TRANSISTOR D.A.T.A.BOOK

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- P- & N- CHANNEL FETS
- SWITCHING TRANSISTORS

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AUTUMN 1974

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MICROWAVE TUBES: Indexes 4,500 types from 34 manufacturers for military and commercial application. Includes BWTs, TWTs, Crossed-Field Amplifiers, Noise Generators, Helitrons, Klystrons, Magnetrons and Platinontrons, TRs and ATRs. Arranged in order of tube type, center frequency, power output and type number. Identifies QPL manufacturers and military specifications. Now includes 2,300 discontinued types. Published semi-annually.

RELAYS: Makes it possible to review, compare and select from the more than 8,100 devices approximately one (1) cubic inch or less in volume and compatible with semiconductor packaging requirements. Covers: Miniature Armature — Subminiature Armature — Dry Reed — Mercury-wetted Reed — Solid State — Hybrid and Time-delay relays. Shows pin connections and dimensioned outlines. Updated and published annually.

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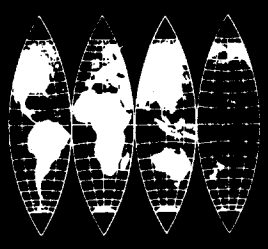

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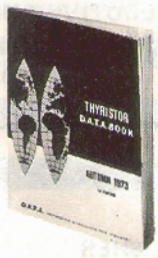

TY – THYRISTOR

TYPE OF DEVICE	D.A.T.A.BOOK					
	DI	DG	LN	SM	TR	TY
Adders						
Analog			x			
Full		x				
Half		x				
AFC Circuits			x			
AM/FM Circuits			x			
Amplifiers						
AGC Circuits			x			
Audio			x			
Current			x			
Differential			x			
IF			x			
Logarithmic			x			
Logic		x				
Operational			x			
Reference			x			
RF			x			
Sense		x	x			
Squaring			x			
Wideband			x			
Character Generators				x		
Comparators						
Binary		x				
Voltage			x			
Converters						
Analog-to-Digital		x				
Code				x		
Digital-to-Analog		x				
Frequency-to-Voltage			x			
Interface		x				
Polarity (Digital)		x				
Frequency			x			
Counters		x				
Decoders		x				
Demultiplexers		x	x			
Diode Arrays	x	x	x			
Diodes						
Current Limiting	x					
General Purpose	x					
Light-Emitting (LEDs)	x					
Log Conversion	x					
Matched Configuration	x					
Microwave Mixer	x					
Microwave Switch	x					
Microwave Video Detector	x					
Freq. Mult. & Harmonic Gen.	x					
Oscillator	x					
Photo (diode)	x					
Radiation Detector	x					
Random/White Noise	x					
Rectifier	x					
Shottky Barrier	x					
Silicon Reference	x					
Solar Cell	x					
Special-Purpose	x					
Step Recovery	x					

TYPE OF DEVICE	D.A.T.A.BOOK					
	DI	DG	LN	SM	TR	TY
Diodes (Cont'd)						
Switching	x					
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UHF Detector	x					
UHF Mixer	x					
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Dividers, Binary		x				
Drivers						
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Oscillators						
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TYPE OF DEVICE	D.A.T.A.BOOK					
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Data		x				
Head		x				
Mode		x				
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Miscellaneous		x				
Parity		x				
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Thyristors						
Diacs						x
Gate Turn -Off Devices						x
Light Activated Switches						x
N-Gate Triodes						x
Reverse Conducting Triodes						x
SCRS						x
Shockley Diodes						x
Sil. Asymmetrical Switches						x
Sil. Bilateral Switches						x
Sil. Controlled Switches						x
Sil. Unidirectional Switches						x
Triacs						x
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Transistors					x	
Avalanche Mode					x	
Bi-Directional					x	
Chips					x	
Choppers					x	
Complementary Symmetry					x	
Composite					x	
Darlington					x	
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Germanium					x	
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  - Converters
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  - Lead Sockets
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  - Thermal Compounds
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    - Joint
    - Potting

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THYRISTOR

Lists All Thyristors (SCRs, TRIACs, DIACs, etc.) Obsoleted From The THYRISTOR D.A.T.A.BOOK

INTEGRATED CIRCUIT

Lists All Integrated Circuits Obsoleted From The LINEAR IC, DIGITAL IC And MSI-LSI MEMORY D.A.T.A.BOOKs.

APPLICATION NOTE D.A.T.A.BOOK

Lists Available Application Notes by Specific Analog and Digital Circuit, plus Descriptive Notes on Discrete and IC Devices: Notes Classified by Major and Subcategories for Easy Reference.

EDITORIAL POLICY & PROCEDURES

Purpose

This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the free world in the field of Transistor devices. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.

Technical Data Acquisition

D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.

JEDEC Outlines

The electrical, mechanical and environmental characteristics tabulated for the standard 2N and 3N type numbers are derived directly from the JEDEC registration releases. The particular manufacturer or manufacturers for whom such types are registered are so indicated by the use of a symbol next to their manufacturer codes in the Type No. Cross-Index. In general, the JEDEC-designated types produced by the various manufacturers, whether registered or not, do conform with the registered specifications; however, there may be exceptions, and it is recommended that the individual manufacturers be consulted.

Military Type Numbers

The electrical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers Qualification Test Letters.

Substitute Types And Compatibility

This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical sections, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough, convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.

Price And Availability

Because of the rapidly-changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.

Manufacturers' Specifications

This book includes currently-manufactured devices with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details and current prices.

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

To make maximum use of this D.A.T.A.BOOK, select the particular known-unknown situation below that defines your problem, and follow the instructions as indicated.

1	KNOWN: Electrical and Mechanical Requirements UNKNOWN: Suitable Type Numbers a. Turn to the Table of Contents (first page) and select the technical data section corresponding to the subject device type. b. Turn to any page in the selected section. Note the sequencing parameters (those characteristics for which the data is sequenced) indicated at the top corner of the page. c. Using the sequencing parameters, locate the type numbers that are in general agreement with your requirements. (Because of the sequencing arrangement, these types will appear together, in groups and sub-groups.) From among these, select the one or ones most suitable. d. To identify the manufacturer of the selected type number(s), follow the instructions in Block 2 below.
2	KNOWN: Type Number UNKNOWN: Manufacturer(s), Address, Local Offices a. Turn to Type No. Cross-Index (Section 1) and locate the subject type number. (Refer to 'HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS-INDEX'.) b. Note the 3- or 4-letter manufacturer's code(s), e.g., GESY, TII, indicated for each of the subject types. c. Use the listing of 'MANUFACTURERS & THEIR CODES' in back of the book to identify the codes. (Note: Local offices for manufacturers shown in bold print on this listing are identified in a special section in back of the book.)
3.	KNOWN: Type Number UNKNOWN: Its Electrical Characteristics, and/Or Outline Drawing a. Turn to Type No. Cross-Index and locate the subject type number. b. Note the page and line number, e.g., 70-104, alongside the type number. c. Locate the type number as noted, in the technical sections. Note: Along with the electrical and performance characteristics listed for each type number is a reference to the outline drawing, located in Section 15.
4	KNOWN: Type Number UNKNOWN: Equivalent Types for Replacement a. Follow the instructions in Block 3 above. b. Survey the type numbers surrounding the subject number to determine the suitable alternatives.
5	KNOWN: Military Requirements UNKNOWN: Suitable Type Number(s) a. Follow the instructions in Block 1, to determine the general type numbers that meet the military requirements. From among these, select the military types by means of the identifying prefix (MIL) b. To identify the manufacturers, follow the instructions in Block 6.
6	KNOWN: Military Type Number UNKNOWN: Qualified Manufacturers And/Or Applicable Military Specification a. Turn to Section 14 (TYPES WITH U.S. MILITARY SPECIFICATIONS), and locate the subject type number. (Type numbers are arranged in alpha-numeric order.) b. Note the manufacturer's code(s) and detail specification listed next to the type number. (The detail specification added to the general specification indicated in the column heading for the detail specification, makes up the complete military specification for the subject device.) c. Use the listing of MANUFACTURERS & THEIR CODES in back of the book to identify the manufacturer code(s).
7	KNOWN: Type Number Not Included In Book UNKNOWN: What Happened To It? a. Consult D.A.T.A.BOOK OF DISCONTINUED TRANSISTORS.

USE OF POWERS-OF-TEN MULTIPLIERS AND SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS

PREFIXES & SYMBOLS Indicating Powers of Ten — Recommended by International Committee on Weights and Measures Adopted by National Bureau of Standards

Power	Prefix	Symbol	Power	Prefix	Symbol	Power	Prefix	Symbol
10^{12}	tera	T	10	deka	da	10^{-9}	nano	n
10^{9}	giga	G	10^{-1}	deci	d	10^{-12}	pico	p
10^{6}	mega	M	10^{-2}	centi	c	10^{-15}	femto	f
10^{3}	kilo	k	10^{-3}	milli	m	10^{-18}	atto	a
10^{2}	hecto	h	10^{-6}	micro	μ			

EXPLANATION

Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m *
10 amperes	A (amperes)	10

* May also be written as 0.5 with no multiplier

SYMBOLS & CODES

Symbols – Symbols such as #, ^, and $ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

NOTE: The symbols and codes used herein are explained on the cards in back of the book.

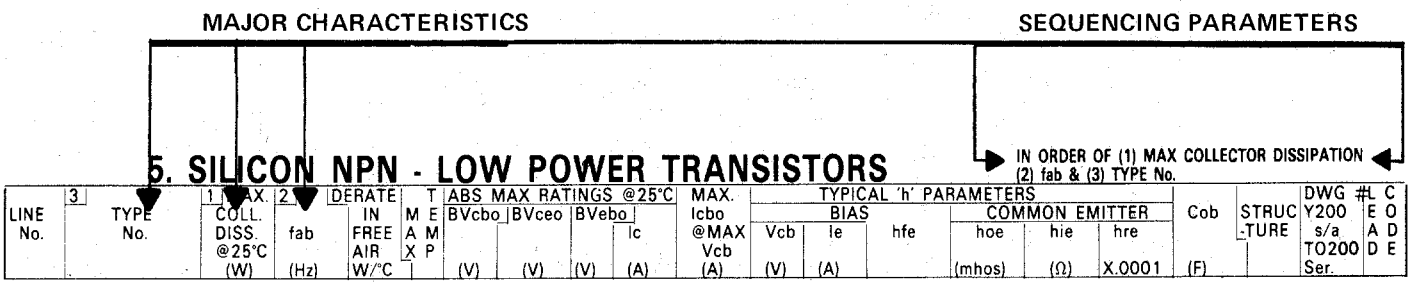
Codes – Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A,B,C, etc.) numeric (1,2,3, etc.) or some combination of both.

HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS-INDEX

Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

Rules:	EXAMPLES
1) Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000
2) Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	25Z150 1/4Z150 3/4M12Z 1T3
3) Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
4) Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9
5) Military prefix (JAN) is ignored in the numeric-alphabetic sequencing of type numbers. A military type number directly follows its equivalent JEDEC type number.	2N645 JAN2N645

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics, or sequencing parameters, differ from one section to another, and are identified at the top corner of each page, as shown in the sample below.



The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameter. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index, as explained on the preceding page.

A simplified model of the arrangement as described is shown below.

Type Number	Characteristics A	B	C	D
A13	100		325	
A4	100		1000	20
A9	100	A	20	25
A10	100	A	200	25
A3	100	B	40	15
A1	100	C	80	10
A8	100	C	900	15
A7	100	D	35	30
A11	110	A	60	25
A2	120	A	300	15
A5	120	B	150	20
A6	120	B	200	20
A12	120	B	475	25
	Last Seq. Par.	1st Seq. Par.	2nd Seq. Par.	(Not Seq.)	3rd Seq. Par.

Note that the absence of an entry for any sequencing parameter is regarded as a zero, and precedes any actual entries in the sequencing.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
1N4378	ΔTII	273-106
1N5722	ΔTII	273-107
1N5723	ΔTII	273-108
1N5724	ΔTII	273-109
1N5725	ΔTII	273-110
2AC128	♦RTCF	269- 19
2AC128-01	BELI	269- 20
♦MULB	♦PHIN	
	♦RTCF	
2AC132	BELI	269- 21
PHIC	♦PHIN	
	RTCF	
2AC187	RTCF	269- 22
2AC188	BELI	269- 23
♦PHIN	RTCF	
2AC188-01	BELI	269- 24
♦PHIN	RTCF	
2ACY17	♦NTLB	269- 25
2ACY18	♦NTLB	269- 26
2ACY19	♦NTLB	269- 27
2AD139	♦PHIN	269- 28
2AD149	♦BELI	269- 29
ELMA	♦MULB	
PHIC	PHIN	
	RTCF	
2AD162	ELMA	269- 30
♦PHIN	RTCF	
2BC119	SGAI	269- 31
2BC139	SGAI	269- 32
2BC142	SGAI	269- 33
2BC286	SGAI	269- 34
2BC288	SGAI	269- 35
2BD124	♦PHIN	269- 36
2BD131	♦MULB	269- 37
	♦PHIN	
2BD181	RTCF	269- 38
2BD182	RTCF	269- 39
2BD183	RTCF	269- 40
2BDY20	♦MULB	269- 41
	♦PHIN	
2BDY38	♦MULB	269- 42
	♦PHIN	
2C111	SGAI	279- 4
2C415	SGAI	131- 41
		279- 5
2C425	SGAI	136-102
		279- 6
2C444	SGAI	136- 43
		269- 43
2CY30	CEI	98- 97
2CY33	CEI	98- 99
2H1254	CEI	99- 33
	EMLS	245-104
2H1255	CEI	99- 37
	EMLS	249- 8
2H1256	CEI	99- 34
	EMLS	245-102
2H1257	CEI	99- 38
	EMLS	249- 9
2H1258	CEI	99- 35
	EMLS	245-103
2H1259	CEI	99- 39
	EMLS	249- 10
2N2X	TIIF	269- 44
2N34	CSR	78-102
♦ETC	NJS	
SES	STI	
	UPI	
2N34A	CRI	79- 5
CSR	♦ETC	
NJS	STI	
	UPI	
2N35	CSR	91- 4
♦ETC	NJS	
PRE	SEI	
SES	STI	
	UPI	
2N36	CSR	78-103
♦ETC	NJS	
STI	UPI	
2N37	CSR	78-104
♦ETC	NJS	
PRE	SEI	
STI	UPI	
2N38	CSR	78-105
♦ETC	NJS	
PRE	SEI	
STI	UPI	
2N43	CSR	84- 74
♦ETC	NJS	
PRE	SEI	
SST	STI	
	UPI	
2N43A	CRI	84- 75
CSR	ESI	
♦ETC	NJS	
♦SES	STI	
	UPI	
JAN2N43A	none	85- 5
2N44	CSR	84- 39
♦ETC	NJS	
PRE	SEI	
SST	STI	
	UPI	
2N44A	CRI	86- 47
CSR	♦ETC	
NJS	♦SES	
STI	UPI	
JAN2N44A	none	84-102
2N45	CSR	84- 40
♦ETC	NJS	
STI	UPI	
2N45A	CRI	84- 41

cont.next col.

TYPE No.	MFRS	Pg&Line
2N45A		
(cont.)	CSR	
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N59	CSR	86- 68
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N59A	CSR	86- 89
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N59B	CSR	86- 90
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N59C	CSR	86- 91
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N60	CRI	86- 69
CSR	♦ETC	
IDI	NJS	
PRE	SEI	
STI	UPI	
2N60A	CSR	86- 85
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N60B	CSR	86- 86
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N60C	CSR	86- 87
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N61	CSR	86- 70
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N61A	CRI	86- 79
CSR	♦ETC	
IDI	NJS	
PRE	SEI	
STI	UPI	
2N61B	CSR	86- 80
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N61C	CSR	86- 81
♦ETC	IDI	
NJS	PRE	
SEI	STI	
	UPI	
2N63	CSR	81- 90
♦ETC	NJS	
SEI	STI	
	UPI	
2N64	CRI	81- 93
CSR	♦ETC	
NJS	STI	
	UPI	
2N65	CSR	83- 42
♦ETC	NJS	
STI	UPI	
2N68/13	GPD	165- 78
STC	STI	
2N77	CSR	78- 85
♦ETC	NJS	
PRE	SEI	
STI	UPI	
2N78	CSR	91- 52
♦ETC	NJS	
PRE	SEI	
	UPI	
2N78A	CSR	91- 29
♦ETC	NJS	
PRE	SEI	
	UPI	
JAN2N78A	none	91- 37
2N83	CSR	164- 96
2N94	CSR	92- 24
♦ETC	NJS	
PRE	SEI	
	UPI	
2N94A	CSR	92- 50
♦ETC	NJS	
PRE	SEI	
	UPI	
2N95	CRI	173- 1
CSR	NJS	
	UPI	
2N97	CRI	91- 8
CSR	♦ETC	
IDI	NJS	
PRE	SEI	
	UPI	
2N98	CSR	91- 9
♦ETC	NJS	
PRE	SEI	
	UPI	
2N99	♦ETC	91- 19
NJS	PRE	
	SEI	

TYPE No.	MFRS	Pg&Line
2N101/13	GPD	164- 66
STC	STI	
2N102/13	GPD	173- 11
♦STC	STI	
2N103	CSR	91- 7
♦ETC	NJS	
PRE	SEI	
	UPI	
2N104	CRI	84- 25
CSR	♦ETC	
NJS	PRE	
SEI	UPI	
2N105	CRI	78- 87
CSR	♦ETC	
NJS	PRE	
SEI	STI	
	UPI	
2N106	CSR	81- 94
♦ETC	NJS	
PRE	SEI	
STI	UPI	
2N107	CSR	79- 11
♦ETC	NJS	
PRE	SEI	
♦SES	SST	
STI	UPI	
2N108	CSR	78-106
♦ETC	NJS	
STI	UPI	
2N109	CSR	86- 51
♦ETC	NJS	
PRE	SEI	
SES	STI	
	UPI	
2N111	CSR	83- 65
♦ETC	NJS	
PRE	SEI	
STI	UPI	
2N111A	CSR	83- 66
♦ETC	NJS	
PRE	SEI	
	UPI	
2N112	CSR	83- 67
♦ETC	NJS	
PRE	SEI	
	UPI	
2N112A	CSR	83- 68
♦ETC	NJS	
PRE	SEI	
	UPI	
2N113	CSR	83- 69
♦ETC	NJS	
PRE	SEI	
	UPI	
2N114	CSR	83- 70
♦ETC	NJS	
PRE	SEI	
	UPI	
2N117	Δ♦TII	114- 12
CRI	CSR	
♦ETC	NJS	
PRE	SEI	
SSI	UPI	
JAN2N117	TII	114- 5
2N118	Δ♦TII	114- 18
CSR	♦ETC	
NJS	PRE	
SEI	SSI	
	UPI	
JAN2N118	TII	114- 6
2N118A	Δ♦TII	114- 29
♦ETC	NJS	
PRE	SEI	
	SSI	
2N119	Δ♦TII	114- 22
CRI	CSR	
♦ETC	NJS	
PRE	SEI	
	SSI	
JAN2N119	TII	114- 7
2N120	Δ♦TII	114- 27
CRI	CSR	
♦ETC	NJS	
PRE	SEI	
	SSI	
2N122	CSR	203- 40
NJS	PRE	
SEI	SSI	
	UPI	
2N123	CSR	85- 39
♦ETC	IDC	242- 91
NJS	PRE	
SEI	STI	
	UPI	
JAN2N123	none	85- 19
		242- 13
2N124	CSR	91- 5
♦ETC	NJS	
PRE	SEI	
	UPI	
2N125	CSR	91- 22
♦ETC	NJS	
PRE	SEI	
	UPI	
2N126	CSR	91- 23
♦ETC	NJS	
	UPI	
2N128	PRE	78- 57
SCA	SEI	
♦SPR	SSI	
JAN2N128	SPR	78- 60
2N129	PRE	78- 70
	SEI	

TYPE No.	MFRS	Pg&Line
2N130	CRI	81- 63
CSR	♦ETC	
IDI	NJS	
	UPI	
2N130A	CSR	78- 3
♦ETC	NJS	
	UPI	
2N131	CSR	81- 64
♦ETC	IDI	
NJS	UPI	
2N131A	CSR	78- 6
♦ETC	NJS	
	UPI	
2N132	CSR	81- 66
♦ETC	IDI	
NJS	UPI	
2N132A	CSR	81- 98
♦ETC	NJS	
	UPI	
2N133	CSR	81- 65
♦ETC	IDI	
NJS	UPI	
2N133A	CSR	78- 7
♦ETC	NJS	
	UPI	
2N135	CSR	82- 9
♦ETC	NJS	
	UPI	
2N136	CSR	82- 18
♦ETC	NJS	
	UPI	
2N137	CSR	82- 23
♦ETC	NJS	
	UPI	
2N138	♦ETC	83- 78
NJS	UPI	
2N139	CSR	78- 91
♦ETC	NJS	
	UPI	
2N140	♦ETC	80-109
	NJS	
2N141/13	GPD	165- 82
STC	STI	
2N142/13	GPD	173- 2
♦STC	STI	
2N143/13	GPD	165- 83
STC	STI	
2N144/13	GPD	173- 12
♦STC	STI	
2N145	CSR	91- 30
♦ETC	NJS	
	UPI	
2N146	♦ETC	91- 31
	NJS	
2N147	♦ETC	91- 32
MEHK	NJS	
2N155	CRI	165- 84
CSR	ESI	
♦ETC	GPD	
NJS	♦SES	
	STC	
2N156	GPD	165- 85
SSI	♦STC	
2N158	GPD	165- 86
SSI	♦STC	
	STI	
JAN2N158	STC	165- 79
2N158A	ESI	165- 87
GPD	SSI	
	♦STC	
2N160	CRI	114- 13
CSR	♦ETC	
NJS	SCA	
SSI	UPI	
2N160A	♦ETC	114- 14
NJS	SCA	
	SSI	
2N161	♦ETC	114- 19
NJS	SCA	
	SSI	
2N161A	♦ETC	114- 20
NJS	SCA	
	SSI	
2N162	♦ETC	114- 30
NJS	UPI	
2N162A	CSR	114- 31
♦ETC	NJS	
	UPI	
2N163	CSR	114- 23
♦ETC	NJS	
SCA	UPI	
2N163A	♦ETC	114- 24
NJS	SCA	
2N164	CSR	91- 38
♦ETC	IDI	
NJS	UPI	
2N164A	CEI	91- 79
CSR	♦ETC	
IDI	NJS	
	UPI	
2N165	CSR	91- 39
♦ETC	NJS	
	UPI	
2N166	CSR	91- 2
♦ETC	NJS	
	UPI	
2N167	CSR	91- 43
♦ETC	NJS	
2N167A	CRI	91- 57
ESI	♦ETC	
NJS	♦SES	
JAN2N167A	none	91- 54
		241-102

TYPE No.	MFRS	Pg&Line
2N168	CSR	91- 28
♦ETC	NJS	
	UPI	
2N168A	♦ETC	91- 44
	NJS	
2N169	CRI	91- 26
CSR	♦ETC	
NJS	♦SES	
	STI	
2N169A	CSR	91- 27
♦ETC	NJS	
♦SES	STI	
2N170	CSR	91- 3
♦ETC	NJS	
♦SES	UPI	
2N172	CSR	91- 33
♦ETC	NJS	
	UPI	
2N173	Δ♦DEL	168- 87
CSR	GPD	237-110
♦MOTA	NJS	
SES	SLD	
SST	UPI	
2N174	Δ♦DEL	169- 41
CSR	GPD	238- 1
♦MOTA	NASB	
NJS	PRE	
SEI	SES	
SLD	SST	
STC	UPI	
	UTS	
2N174A	ΔDEL	169- 42
CRI	CSR	238- 40
GPD	MOTA	
NJS	SES	
SLD	SST	
STC	UPI	
	UTS	
JAN2N174A	♦DEL	171- 83
2N175	CSR	78- 49
♦ETC	NJS	
SES	UPI	
2N176	Δ♦MOTA	169- 43
CSR	♦ETC	
GPD	IDC	
KER	NJS	
♦SES	SST	
♦STC	UPI	
2N178	Δ♦MOTA	169- 44
CSR	♦ETC	
GPD	KER	
NJS	SES	
SST	STC	
	UPI	
2N180	CSR	84- 26
♦ETC	NJS	
	UPI	
2N181	CSR	84- 27
♦ETC	NJS	
	UPI	
2N182	CSR	91- 77
♦ETC	NJS	
	UPI	
2N183	CSR	91- 87
♦ETC	NJS	
	UPI	
2N184	CSR	91- 92
♦ETC	NJS	
	UPI	
2N185	CSR	83- 79
♦ETC	NJS	
PRE	SEI	
	UPI	
2N186	CSR	81- 95
♦ETC	NJS	
	UPI	
2N186A	CSR	87- 28
♦ETC	NJS	
2N187	CSR	81- 99
♦ETC	NJS	
	UPI	
2N187A	CSR	87- 39
♦ETC	NJS	
♦SES	UPI	
2N188	CSR	81-106
♦ETC	NJS	
STI	UPI	
2N188A	CSR	87- 60
♦ETC	NJS	
PRE	SEI	
♦SES	STI	
	UPI	
2N189	CSR	87- 29
♦ETC	NJS	
♦SES	STI	
	UPI	
2N190	CRI	87- 40
CSR	♦ETC	
NJS	♦SES	
STI	UPI	
2N191	CSR	87- 61
♦ETC	NJS	
PRE	SEI	
♦SES	STI	
	UPI	
2N192	CRI	87- 78
CSR	♦ETC	
NJS	♦SES	
STI	UPI	
2N193	CSR	92- 33
♦ETC	NJS	
PRE	SEI	
STI	UPI	

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N194	CSR	91- 10
	♦ETC	NJS
	PRE	SEI
	STI	UPI
2N194A	CSR	91- 11
	♦ETC	NJS
	PRE	SEI
	STI	UPI
2N206	♦ETC	80- 54
	NJS	UPI
2N207	CRI	81- 67
	CSR	♦ETC
	IDI	NJS
		UPI
2N207A	CSR	81- 68
	♦ETC	IDI
	NJS	UPI
2N207B	CSR	81- 69
	♦ETC	IDI
	NJS	UPI
2N211	CSR	91- 12
	♦ETC	NJS
		UPI
2N212	CSR	92- 49
	♦ETC	NJS
	PRE	SEI
		UPI
2N213	CSR	92-109
	♦ETC	NJS
	PRE	SEI
		UPI
2N213A	CRI	92-104
	CSR	♦ETC
	NJS	STI
2N214	CSR	92-108
	♦ETC	NJS
	PRE	SEI
	SES	UPI
2N214A	CSR	92-103
	ETC	IDI
	NJS	STI
2N215	CSR	78- 4
	♦ETC	NJS
		SES
2N216	CRI	91- 13
	CSR	♦ETC
	NJS	PRE
	SEI	UPI
2N217	CRI	86- 52
	CSR	♦ETC
	NJS	NPC
	SES	UPI
2N218	CSR	78- 92
	♦ETC	NJS
	SST	UPI
2N219	CSR	80-110
	♦ETC	NJS
		UPI
2N220	CRI	78- 50
	CSR	♦ETC
	NJS	SES
		STI
JAN2N220	none	78- 45
2N223	CRI	89- 15
	CSR	♦ETC
	NJS	STI
		UPI
2N224	CSR	89- 13
	♦ETC	NJS
	STI	UPI
2N225	CSR	89- 14
	♦ETC	NJS
	STI	UPI
2N226	CRI	89- 9
	CSR	♦ETC
	NJS	STI
		UPI
2N227	CSR	89- 10
	♦ETC	NJS
		UPI
2N228	CSR	92-105
	♦ETC	NJS
	PRE	SEI
		UPI
2N229	CSR	92-106
	♦ETC	NJS
	PRE	SEI
		UPI
2N231	CSR	78- 43
	NJS	SPR
2N232	STI	78- 44
2N233	CSR	92- 25
	♦ETC	NJS
	PRE	SEI
		UPI
2N233A	CRI	92- 26
	CSR	♦ETC
	NJS	PRE
	SEI	UPI
2N234A	CRI	166- 45
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
	STI	UPI
2N235A	CEI	166- 46
	CRI	CSR
	♦ETC	GPD
	NJS	♦SES
	STC	STI
		UPI
2N235B	CSR	166- 47
	♦ETC	GPD
	NJS	♦SES
	STI	UPI
2N236A	CSR	166- 48
	♦ETC	GPD
	NJS	♦SES
	STC	STI
		UPI
2N236B	CSR	166- 49
	♦ETC	GPD
	NJS	♦SES
	STC	STI
		UPI
2N237	CSR	84- 15
	♦ETC	NJS
		UPI
2N238	CSR	78-107
	ETC	NJS
	STI	UPI
2N240	CSR	78- 71
	NJS	SCA
	♦SPR	SSI
		STI
JAN2N240	SPR	78- 56
2N241	♦ETC	81-108
	NJS	STI
		UPI
2N241A	CSR	87- 74
	♦ETC	NJS
		♦SES
2N242	CRI	165- 88
	CSR	♦ETC
	GPD	♦MOTA
	NJS	♦SES
	SST	UPI
		UTS
2N243	△♦TII	143- 96
	CSR	♦ETC
	NJS	SSI
2N244	△♦TII	143- 97
	CRI	CSR
	♦ETC	NJS
		SSI
2N249	CSR	90- 33
	ETC	NJS
		UPI
2N250	CSR	166- 27
	♦ETC	GPD
	NJS	♦SES
	STC	STI
		UPI
2N250A	CRI	169- 45
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N251	CSR	166- 28
	♦ETC	GPD
	NJS	♦SES
	STC	UPI
2N251A	CRI	169- 46
	CSR	♦ETC
	GPD	NJS
	♦SES	UPI
2N252	CSR	78- 66
	ETC	NJS
		UPI
2N253	CSR	91- 34
	♦ETC	NJS
		UPI
2N254	CSR	91- 35
	ETC	NJS
		UPI
2N255	CSR	165- 89
	ESI	ETC
	GPD	NJS
	♦SES	STC
		UPI
2N255A	CRI	165- 90
	CSR	ETC
	GPD	NJS
	♦SES	SLD
	SST	STC
		UPI
2N256	CSR	165- 91
	ESI	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N256A	CSR	165- 92
	♦ETC	GPD
	NJS	♦SES
	STC	UPI
2N257	CRI	166-105
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N257B	CSR	166-106
	♦ETC	GPD
	NJS	STC
		UPI
2N257G	CSR	166-107
	♦ETC	GPD
	NJS	STC
		UPI
2N257W	CSR	166-108
	♦ETC	GPD
	NJS	STC
		UPI
2N263	△TII	114- 48
	CSR	NJS
	SCA	SSI
2N264	△TII	113- 30
	CSR	NJS
	SCA	SSI
2N265	CSR	80- 56
	♦ETC	NJS
		UPI
2N268	CRI	166-109
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N268A	CSR	166-110
	♦ETC	GPD
	NJS	♦SES
	STC	UPI
2N269	CSR	82- 79
	♦ETC	NJS
	STI	UPI
2N270	CSR	83- 80
	♦ETC	NJS
		UPI
2N271	CSR	78- 29
	ETC	NJS
		UPI
2N271A	CSR	78- 30
	ETC	NJS
2N272	CSR	78- 11
	ETC	NJS
		UPI
2N273	CSR	78- 1
	ETC	NJS
		UPI
2N274	CSR	81- 15
		STI
2N277	△♦DEL	168- 88
	CRI	CSR
	GPD	♦MOTA
	NJS	♦PHIN
	SES	SLD
	SST	STC
	UPI	UTS
2N278	△♦DEL	168- 89
	CRI	CSR
	GPD	♦MOTA
	NJS	SES
	SLD	SST
	STC	UPI
	UTS	
2N279	CSR	83- 28
	♦ETC	NJS
		UPI
2N280	CSR	83- 29
	♦ETC	NJS
		UPI
2N281	CSR	83- 31
	♦ETC	NJS
		UPI
2N282	CSR	269- 45
	♦ETC	NJS
	PHIC	UPI
2N283	CSR	83- 34
	♦ETC	NJS
		UPI
2N284	CSR	83- 32
	♦ETC	NJS
	PHIC	UPI
2N284A	CSR	83- 33
	♦ETC	NJS
	PHIC	UPI
2N285A	CSR	166- 50
	♦ETC	GPD
	NJS	♦SES
2N285B	CSR	167- 88
	ETC	GPD
	NJS	♦SES
2N291	CSR	86- 71
	ETC	NJS
		UPI
2N292	CSR	91- 40
	♦ETC	NJS
	♦SES	UPI
2N292A	CSR	91- 82
	♦ETC	IDI
	NJS	UPI
2N293	CSR	91- 45
	ETC	NJS
	♦SES	UPI
2N296	CRI	165- 93
	CSR	♦ETC
	GPD	NJS
	♦SES	STI
		UPI
2N297	CSR	166- 51
	♦ETC	GPD
	NJS	SES
	SST	STI
		UPI
2N297A	CRI	166- 52
	CSR	ESI
	♦ETC	GPD
	IDC	NJS
	♦SES	SST
	STC	STI
		UPI
JAN2N297A	MOTA	167- 1
		STC
2N301	CSR	168- 90
	♦DEL	ELMA
	♦ETC	GPD
	MOTA	NJS
	♦SES	SLD
	SST	♦STC
	UPI	UTS
2N301A	CRI	168- 91
	CSR	♦DEL
	ELMA	ESI

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TYPE No.	MFRS	Pg&Line
2N301A		
(cont.)	♦ETC	
	GPD	MOTA
	NJS	♦SES
	SLD	SST
	STC	UPI
		UTS
2N302	CRI	85- 34
	CSR	♦ETC
	NJS	UPI
2N303	CSR	85- 67
	♦ETC	NJS
		UPI
2N306	CSR	92-107
	♦ETC	NJS
	PRE	SEI
		UPI
2N307	CSR	167- 2
	♦ETC	GPD
	♦MOTA	NJS
	♦SES	SST
	STC	UPI
		UTS
2N307A	CSR	167- 3
	♦ETC	GPD
	♦MOTA	NJS
	PRE	SEI
	♦SES	SST
	STC	UPI
		UTS
2N308	CSR	78- 67
	♦ETC	NJS
		UPI
2N309	CSR	78- 68
	♦ETC	NJS
		UPI
2N310	CSR	78- 69
	ETC	NJS
		UPI
2N311	CRI	80- 47
	CSR	♦ETC
	NJS	STI
		UPI
2N312	CEI	91- 55
	CRI	CSR
	♦ETC	NJS
	PRE	SEI
	SST	STI
		UPI
2N315	CRI	82- 11
	CSR	♦ETC
	IDI	NJS
	STI	UPI
2N315A	CSR	83- 81
	♦ETC	IDI
	NJS	PRE
	SEI	SLD
	SST	STI
	TII	UPI
2N315B	STI	83- 82
		235- 19
2N316	CRI	82- 27
	CSR	♦ETC
	IDI	NJS
	STI	UPI
2N316A	CSR	83- 83
	♦ETC	IDI
	NJS	STI
		UPI
2N317	CSR	82- 30
	♦ETC	IDI
	NJS	STI
		UPI
2N317A	CSR	83- 84
	♦ETC	IDI
	NJS	SLD
	SST	STI
	TII	UPI
2N319	△♦GESY	88- 69
	CSR	♦ETC
	IDI	♦MOTA
	NJS	♦SES
	STI	UPI
2N320	△♦GESY	88- 76
	CSR	♦ETC
	IDI	♦MOTA
	NJS	♦SES
	STI	UPI
2N321	△♦GESY	88- 78
	CSR	♦ETC
	IDI	♦MOTA
	NJS	♦SES
	STI	UPI
2N322	△♦GESY	87- 41
	CRI	CSR
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
		UPI
2N323	△♦GESY	87- 79
	CRI	CSR
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
		UPI
2N324	△♦GESY	87- 94
	CRI	CSR
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
		UPI
2N326	CSR	173- 14
	GPD	NJS
	♦STC	STI

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TYPE No.	MFRS	Pg&Line
JAN2N326	STC	173- 13
2N327A	△♦RTN	94- 1
	CEI	CSR
	♦ETC	HZN
	IDI	NJS
	PRE	SDE
	SEI	♦SES
	SLD	SSI
	SST	STI
	TADI	♦TCY
2N327B	△♦TCY	105- 56
	CSR	HZN
	IDI	♦RTN
	SDE	♦SES
	SLD	SSI
	SST	STI
	TADI	
2N328A	△♦RTN	94- 2
	CEI	CRI
	CSR	ESI
	♦ETC	HZN
	IDI	NJS
	PRE	SCA
	SDE	SEI
	♦SES	SLD
	SSI	SST
	STI	TADI
	♦TCY	UPI
JAN2N328A	RTN	105- 16
	TCY	
2N328B	△♦TCY	105- 59
	CSR	HZN
	IDI	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	STI	TADI
2N329A	△♦RTN	94- 3
	CSR	ESI
	♦ETC	HZN
	IDI	NJS
	PRE	SCA
	SDE	SEI
	♦SES	SLD
	SSI	SST
	STI	TADI
	♦TCY	UPI
JAN2N329A	RTN	105- 17
	TCY	
2N329B	△♦TCY	105- 65
	CSR	HZN
	IDI	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	STI	TADI
2N330A	CSR	94- 4
	HZN	IDI
	SCA	SLD
	SSI	SST
		TCY
2N331	CSR	90- 17
	ETC	MOTA
	NJS	♦SES
JAN2N331	none	87- 13
2N332	△♦TII	114- 15
	CEI	CSR
	♦ETC	IDI
	NJS	SCA
	SLD	SSI
	SST	STI
	♦TEC	UPI
2N332A	CSR	137- 56
	♦ETC	NJS
	SLD	SSI
	SST	STI
	TEC	UPI
2N333	△♦TII	114- 21
	CEI	CSR
	ESI	♦ETC
	IDI	NJS
	SCA	SES
	SLD	SSI
	SST	STI
	♦TEC	UPI
JAN2N333	TEC	114- 8
	TII	
2N333A	CRI	137- 57
	CSR	♦ETC
	NJS	SES
	SLD	SSI
	SST	STI
	TEC	UPI
JAN2N333A	TEC	137- 47
2N334	△♦TII	114- 32
	CSR	♦ETC
	IDI	NJS
	SCA	SES
	SLD	SSI
	SST	STI
	♦TEC	UPI
2N334A	♦ETC	137- 58
	SES	SLD
	SSI	SST
	STI	TEC
2N335	△♦TII	114- 25
	CEI	CRI
	CSR	♦ETC
	IDI	NJS
	SCA	SES
	SLD	SSI
	SST	STI

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N335		
(cont.)	TADI	
	♦TEC	UPI
JAN2N335	TEC	114- 9
	TII	
2N335A	CSR	137- 59
	♦ETC	NJS
	SES	SLD
	SSI	SST
	STI	TADI
	TEC	UPI
JAN2N335A	TEC	137- 48
2N335B	CSR	137- 60
	♦ETC	NJS
	SES	SSI
	STI	TADI
		UPI
2N336	△♦TII	114- 28
	CEI	CRI
	CSR	ESI
	♦ETC	IDI
	NJS	PRE
	SCA	SEI
	SES	SLD
	SSI	SST
	STI	TADI
	♦TEC	UPI
JAN2N336	TEC	114- 10
	TII	
2N336A	CEI	137- 61
	CSR	♦ETC
	NJS	SES
	SLD	SSI
	SST	STI
	TADI	TEC
		UPI
JAN2N336A	TEC	137- 49
2N337	△♦TII	113- 32
	CSR	♦ETC
	IDI	NJS
	PHIC	PHIN
	SCA	SES
	SLD	SSI
	SST	STI
	♦TEC	UPI
JAN2N337	TEC	113- 31
	TII	244- 31
2N337A	CEI	137- 64
	CRI	CSR
	♦ETC	IDI
	NJS	SCA
	SES	SLD
	SSI	SST
	STI	TEC
		UPI
2N338	△♦TII	113- 38
	CSR	ESI
	♦ETC	IDI
	NJS	PHIC
	PHIN	SCA
	SES	SLD
	SSI	SST
	STI	♦TEC
		UPI
JAN2N338	TEC	113- 33
	TII	245-110
2N338A	CEI	137- 70
	CRI	CSR
	♦ETC	IDI
	NJS	PRE
	SCA	SES
	SLD	SSI
	SST	STI
	TEC	UPI
2N339	△♦TII	148- 66
	CSR	♦ETC
	NJS	SES
	SSI	STI
		UPI
2N339A	CRI	122- 36
	CSR	♦ETC
	NJS	SSI
	STI	UPI
2N340	△♦TII	148- 67
	CSR	♦ETC
	NJS	SSI
	STI	UPI
2N340A	CSR	122- 37
	♦ETC	NJS
	SSI	STI
		UPI
2N341	△♦TII	148- 68
	CSR	♦ETC
	NJS	SSI
	STI	UPI
JAN2N341	TEC	143-105
2N341A	CSR	122- 38
	♦ETC	NJS
	SSI	STI
		UPI
2N342	△♦TII	148- 69
	CRI	CSR
	♦ETC	NJS
	SSI	UPI
JAN2N342	TEC	148- 74
2N342A	♦ETC	148- 70
	NJS	SSI
		STI
JAN2N342A	TEC	148- 75
2N342B	ETC	143- 98
	SSI	STI
2N343	△♦TII	148- 71
	CSR	♦ETC

cont.next col.

TYPE No.	MFRS	Pg&Line
2N343		
(cont.)	NJS	
	SES	SSI
		UPI
JAN2N343	TEC	148- 76
2N343A	CSR	148- 72
	ESI	ETC
	NJS	SSI
	STI	UPI
2N343B	CSR	143- 99
	ETC	NJS
	SSI	UPI
2N344	CSR	78- 52
	NJS	♦SPR
		SSI
2N345	CSR	78- 53
	NJS	♦SPR
		SSI
2N346	CRI	78- 54
	CSR	NJS
	SCA	SES
	♦SPR	SSI
2N350	△♦MOTA	168- 92
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	♦SES	STC
		UPI
2N350A	△♦MOTA	169- 47
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	♦SES	SST
	STC	UPI
2N351	△♦MOTA	168- 93
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	♦SES	STC
		UPI
2N351A	△♦MOTA	169- 48
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	♦SES	SST
	STC	UPI
2N356	CEI	91- 76
	CSR	♦ETC
	IDI	NJS
	PRE	SEI
	SST	STI
		UPI
2N356A	CEI	92- 8
	CSR	ESI
	♦ETC	IDI
	SST	STI
2N357	CEI	91- 86
	CSR	♦ETC
	IDI	NJS
	SST	STI
		UPI
2N357A	CSR	92- 9
	♦ETC	IDI
	NJS	SST
	STI	UPI
JAN2N358A	none	92- 11
		235- 16
2N359	CSR	86- 61
	♦ETC	IDI
	NJS	STI
		UPI
2N360	CSR	86- 62
	♦ETC	IDI
	NJS	STI
		UPI
2N361	CSR	86- 63
	♦ETC	IDI
	NJS	STI
		UPI
2N362	CRI	86- 64
	CSR	♦ETC
	IDI	NJS
	STI	UPI
2N363	CRI	86- 65
	CSR	♦ETC
	IDI	NJS
	STI	UPI
2N364	CRI	92- 30
	CSR	♦ETC
	NJS	UPI
2N365	CRI	92- 34
	CSR	♦ETC
	NJS	UPI
2N366	CSR	92- 44
	♦ETC	NJS
		UPI
2N367	CRI	81- 92
	CSR	♦ETC
	NJS	STI
		UPI
2N368	CRI	81-100
	CSR	♦ETC

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TYPE No.	MFRS	Pg&Line
2N368		
(cont.)	NJS	
	STI	UPI
2N369	CRI	81-109
	CSR	♦ETC
	NJS	STI
		UPI
2N370	CSR	90- 72
	NJS	
2N372	CRI	81- 16
	CSR	NJS
		STI
2N375	△♦MOTA	168- 27
	CRI	CSR
	♦ETC	GPD
	NJS	PRE
	SEI	♦SES
	SST	STC
		UPI
2N376	△♦MOTA	168- 94
	CEI	CRI
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	♦SES	STC
		UPI
2N376A	△♦MOTA	169- 49
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	♦SES	STC
		UPI
2N377	CEI	92- 63
	CSR	♦ETC
	IDI	NJS
	SLD	SST
	STI	TII
		UPI
2N377A	CRI	92- 64
	CSR	♦ETC
	IDI	NJS
	STI	UPI
2N378	CRI	168- 28
	CSR	♦ETC
	GPD	♦MOTA
	NJS	♦SES
	SST	STC
	UPI	UTS
2N379	CRI	168- 29
	CSR	♦DEL
	♦ETC	GPD
	♦MOTA	NJS
	♦SES	SLD
	SST	STC
	UPI	UTS
2N380	CEI	168- 30
	CSR	♦DEL
	♦ETC	GPD
	♦MOTA	NJS
	PRE	SEI
	♦SES	SLD
	SST	STC
	UPI	UTS
2N381	CSR	87-107
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
2N382	CSR	88- 7
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
		UPI
2N383	CSR	88- 20
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
		UPI
2N384	♦NPC	83- 8
	STI	
JAN2N384	APX	82- 99
2N385	CEI	92- 65
	CSR	♦ETC
	IDI	NJS
		UPI
2N385A	CRI	92- 70
	CSR	♦ETC
	IDI	NJS
		UPI
2N388	CRI	92- 87
	CSR	ESI
	♦ETC	IDC
	IDI	NJS
	♦NPC	PHIN
	♦SES	SLD
	SST	♦TII
	TIID	UPI
JAN2N388	TII	92- 51
		252- 93
2N388A	CRI	92- 71
	CSR	♦ETC
	IDI	NJS
	♦SES	SLD
	SST	STI
	♦TII	TIID
		UPI
2N389	△♦TII	214- 87
	CSR	♦ETC
	NJS	PPC
	SCA	SEN
	♦SES	SPC
	SSI	♦STC
	STI	♦TEC
	TIIB	UPI

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TYPE No.	MFRS	Pg&Line
JAN2N389	SEN	214-103
	STC	TII
2N389A	△♦STC	214- 88
	CRI	CSR
	♦ETC	NJS
	SEN	♦SES
	SPC	SSI
	STI	TEC
	TII	UPI
2N392	△♦DEL	167- 4
	CRI	CSR
	♦ETC	GPD
	NJS	SLD
	SST	UPI
2N393	CRI	78- 61
	CSR	ESI
	SCA	♦SPR
		SSI
JAN2N393	MOTA	78- 94
	SPR	
2N394	CSR	85- 9
	♦ETC	IDI
	NJS	UPI
2N394A	CRI	85- 35
	CSR	♦ETC
	IDI	NJS
		♦SES
2N395	CSR	85- 18
	♦ETC	IDI
	NJS	♦SES
	SLD	SST
	TII	UPI
2N396	CRI	85- 40
	CSR	♦ETC
	IDI	MISI
	NJS	♦NPC
	♦SES	SLD
	SST	THCF
	TII	UPI
		WAB
2N396A	CRI	88- 21
	CSR	ESI
	♦ETC	IDI
	MISI	NJS
	PHIN	♦SES
	STI	THCF
JAN2N396A	none	88- 22
2N397	CRI	85- 62
	CSR	♦ETC
	IDI	MISI
	NJS	♦NPC
	PHIN	♦SES
	SLD	SST
	THCF	TII
	UPI	WAB
2N398	CRI	79- 19
	CSR	ETC
	♦MOTA	NJS
	PRE	SEI
	♦SES	SST
	STI	TIID
		UPI
2N398A	△♦MOTA	84- 42
	CRI	CSR
	ETC	IDI
	NJS	PRE
	♦SES	SST
	STI	TIID
		UPI
JAN2N398A	MOTA	84- 20
2N398B	CSR	89- 20
	IDI	NJS
	PRE	SEI
	SES	SST
	STI	TIID
		UPI
2N399	CRI	166- 53
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N400	CSR	166- 54
	♦ETC	GPD
	NJS	♦SES
	STC	UPI
2N401	CSR	166- 55
	♦ETC	GPD
	NJS	♦SES
	STC	UPI
2N402	CSR	86- 76
	ETC	IDI
	NJS	UPI
2N403	CSR	86- 72
	ETC	IDI
	NJS	UPI
2N404	CEI	85- 65
	CSR	ESI
	♦ETC	IDC
	IDI	MISI
	NJS	♦NPC
	PHIN	PRE
	SEI	♦SES
	SLD	SST
	STI	THCF
	♦TII	TIID
	UPI	WAB
JAN2N404	TII	85- 10
2N404A	CRI	85- 11
	CSR	ESI
	♦ETC	IDC
	IDI	NJS
	♦NPC	PRE
	SEI	♦SES
	SLD	SST

cont.next col.

TYPE No.	MFRS	Pg&Line
2N404A		
(cont.)	STI	
	♦TII	TIID
	UPI	WAB
JAN2N404A	TII	85- 12
2N405	CRI	84- 23
	CSR	♦ETC
	NJS	STI
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	CSR	♦ETC
	NJS	SES
		STI
2N407	CRI	83- 85
	CSR	♦ETC
	NJS	SES
		STI
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2N416	CSR	78- 33
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JAN2N416	none	85- 20
2N417	CSR	78- 40
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JAN2N422	none	84- 43
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	♦ETC	IDC
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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2N426	CSR	78 - 24
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JAN2N426	none	84 -103
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2N427	CSR	78 - 36
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2N428	CRI	78 - 39
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2N438	CSR	91 - 74
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JAN2N464	none	84 - 14
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2N467	CSR	78 - 14
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2N484	CSR	78 - 34
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1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N501 (cont.)	♦ETC	253 - 90
	IDC	
	MOTA	
	NJS	
	SCA	
	SES	
	♦SPR	
	SSI	
2N501A	CRI	79 - 80
	CSR	ESI	253 - 91
	♦ETC	IDC	
	MOTA	NJS	
	SCA	SES	
	♦SPR	SSI	
JAN2N501A	MOTA	79 - 55
	SPR	233 - 77
2N502	CSR	79-101
	♦ETC	IDC	
	♦MOTA	NJS	
	SCA	SES	
	♦SPR	SSI	
2N502A	CRI	78 - 65
	CSR	♦ETC	
	IDC	♦MOTA	
	NJS	SCA	
	SES	♦SPR	
	SSI	
JAN2N502A	♦MOTA	80 - 73
	SPR	
2N502B	ESI	80 - 48
	♦ETC	IDC	
	♦MOTA	NJS	
	SES	SPR	
	SSI	
JAN2N502B	♦MOTA	80 - 74
	SPR	
2N503	CRI	78 - 64
	CSR	♦ETC	
	IDC	NJS	
	SCA	SES	
	♦SPR	
2N504	CRI	78 - 79
	CSR	♦ETC	
	IDC	NJS	
	SES	♦SPR	
2N505	CRI	83 - 56
	CSR	ETC	
	NJS	
2N506	CRI	79 - 6
	CSR	♦ETC	
	NJS	
2N507	CRI	91 - 6
	CSR	♦ETC	
	NJS	PRE	
	SEI	
2N508	△♦GESY	87-102
	CSR	♦ETC	
	IDI	♦MOTA	
	NJS	♦SES	
	STI	UPI	
2N508A	△♦GESY	88 - 17
	CRI	CSR	
	ESI	♦ETC	
	IDI	♦MOTA	
	NJS	♦SES	
	STI	UPI	
2N511	CSR	171 - 90
	♦ETC	GPD	
	NJS	♦SES	
	STC	
2N511A	CRI	171 - 91
	CSR	♦ETC	
	GPD	NJS	
	♦SES	STC	
2N511B	CSR	171 - 92
	♦ETC	GPD	
	NJS	♦SES	
	STC	
2N512	CSR	171 - 93
	♦ETC	GPD	
	NJS	♦SES	
	STC	TIID	
2N512A	CRI	171 - 94
	CSR	♦ETC	
	GPD	NJS	
	♦SES	STC	
	TIID	
2N512B	CSR	171 - 95
	♦ETC	GPD	
	NJS	♦SES	
	STC	TIID	
2N513	CRI	171 - 96
	CSR	♦ETC	
	GPD	NJS	
	♦SES	STC	
2N513A	CSR	171 - 97
	♦ETC	GPD	
	NJS	♦SES	
	STC	
2N513B	CSR	171 - 98
	♦ETC	GPD	
	NJS	♦SES	
	STC	
2N514	CSR	171 - 56
	♦ETC	GPD	
	NJS	♦SES	
	STC	
2N514A	CRI	171 - 57
	CSR	♦ETC	
	GPD	NJS	
	♦SES	STC	
2N514B	CSR	171 - 58
	♦ETC	GPD	
	NJS	♦SES	
	STC	
2N515	CRI	91 - 14
	CSR	♦ETC	
	NJS	
2N516	CRI	91 - 15
	CSR	♦ETC	
	NJS	
2N517	CRI	91 - 16
	CSR	♦ETC	
	NJS	
2N518	CRI	85 - 61
	CSR	ETC	
	NJS	
2N519	CSR	81 - 88
	♦ETC	IDI	
	NJS	STI	
	UPI	
2N519A	CRI	84 - 19
	CSR	♦ETC	
	IDI	NJS	
	STI	UPI	
2N520	CSR	82 - 4
	♦ETC	IDI	
	NJS	SLD	
	SST	STI	
	TII	UPI	
2N520A	CRI	84-104
	CSR	♦ETC	
	IDI	NJS	
	SLD	SST	
	STI	TII	
	UPI	
2N521	CRI	82 - 19
	CSR	♦ETC	
	IDI	NJS	
	STI	UPI	
2N521A	CSR	85 - 41
	♦ETC	IDI	
	NJS	STI	
	UPI	
2N522	CRI	82 - 29
	CSR	♦ETC	
	IDI	NJS	
	PRE	SEI	
	SST	STI	
	UPI	
2N522A	CSR	85 - 70
	♦ETC	IDI	
	NJS	SLD	
	SST	STI	
	TII	UPI	
2N523	CRI	82 - 32
	CSR	♦ETC	
	IDI	NJS	
	PRE	SEI	
	SST	STI	
2N523A	CSR	85 - 78
	♦ETC	IDI	
	NJS	STI	
2N524	△♦GESY	88 - 49
	CRI	CSR	
	♦ETC	IDI	
	♦MOTA	NJS	
	♦NPC	PHIN	
	PRE	SEI	
	♦SES	SST	
	STI	TIIF	
	UPI	WAB	
2N524A	△♦MOTA	88 - 85
	CSR	ETC	
	IDI	NJS	
	STI	UPI	
2N525	△♦GESY	88 - 50
	CRI	CSR	
	♦ETC	IDI	
	MISI	♦MOTA	
	NJS	♦NPC	
	PHIN	PRE	
	SEI	♦SES	
	SST	STI	
	THCF	TIIF	
	UPI	WAB	
2N525A	△♦MOTA	88 - 86
	CSR	ETC	
	IDI	NJS	
	STI	UPI	
2N526	△♦GESY	88 - 51
	CRI	CSR	
	♦ETC	IDI	
	MISI	♦MOTA	
	NJS	♦NPC	
	PHIN	PRE	
	SEI	♦SES	
	SST	STI	
	THCF	TIIF	
	UPI	WAB	
JAN2N526	GESY	88 - 59
	♦MOTA	
2N526A	△♦MOTA	88 - 87
	CSR	ESI	
	ETC	IDI	
	NJS	STI	
	UPI	
2N527	△♦GESY	88 - 52
	CRI	CSR	
	♦ETC	IDI	
	MISI	♦MOTA	
	NJS	♦NPC	
	PHIN	PRE	
	SEI	♦SES	
	SST	STI	
	THCF	TIIF	
	UPI	WAB	
2N527A	△♦MOTA	88 - 88

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TYPE No.	MFRS	Pg&Line
2N527A (cont.)	CSR	
	ESI	ETC	
	IDI	NJS	
	STI	UPI	
2N529	CRI	268 - 36
	CSR	♦ETC	
	NJS	PRE	
	SEI	UPI	
2N530	CRI	268 - 37
	CSR	♦ETC	
2N531	CRI	268 - 38
	CSR	♦ETC	
	UPI	
2N532	CRI	268 - 39
	CSR	♦ETC	
2N533	CRI	268 - 40
	CSR	♦ETC	
	UPI	
2N535	CRI	79 - 13
	CSR	ETC	
2N535A	CSR	79 - 14
	ETC	
2N535B	CSR	79 - 15
	ETC	
2N536	CRI	79 - 16
	ETC	
JAN2N537	none	88 - 90
2N538	GPD	166 - 29
	SES	SST	
	♦STC	
2N538A	GPD	166 - 30
	SES	SST	
	♦STC	
2N539	GPD	166 - 31
	SES	SST	
	♦STC	UPI	
JAN2N539	STC	166 - 25
2N539A	GPD	166 - 32
	SES	♦STC	
	UPI	
JAN2N539A	STC	166 - 26
JAN2N539AM	STC	166 - 35
JAN2N539M	STC	166 - 36
2N540	GPD	166 - 33
	SES	SST	
	♦STC	
2N540A	GPD	166 - 34
	SES	SST	
	♦STC	
2N541	△♦TEC	117 - 25
	CEI	CRI	
	CSR	♦ETC	
	IDI	NJS	
	SCA	SES	
	SLD	SSI	
	SST	STI	
	TII	
2N542	△♦TEC	117 - 26
	CRI	CSR	
	♦ETC	IDI	
	NJS	SCA	
	SES	SLD	
	SSI	SST	
	STI	TII	
2N542A	△♦TEC	117 - 27
	CEI	CSR	
	♦ETC	NJS	
	SES	SLD	
	SSI	SST	
	STI	
2N543	△♦TEC	117 - 28
	CRI	CSR	
	♦ETC	IDI	
	NJS	SCA	
	SES	SLD	
	SSI	SST	
	STI	TII	
2N543A	△♦TEC	117 - 29
	CEI	CSR	
	♦ETC	SES	
	SLD	SSI	
	SST	STI	
2N545	△♦TEC	140 - 33
	CRI	CSR	235 - 1
	ETC	GSE	
	IDI	NJS	
	SCA	SLD	
	SSI	SST	
	STI	♦UNI	
JAN2N545	none	140 - 34
		235 - 2
2N546	△♦TEC	140 - 35
	CRI	CSR	235 - 3
	ETC	GSE	
	IDI	NJS	
	SCA	SLD	
	SSI	SST	
	STI	♦UNI	
2N547	△♦TEC	140 - 67
	CRI	CSR	
	♦ETC	GSE	
	IDI	NJS	
	SCA	SLD	
	SSI	SST	
	STI	♦UNI	
2N548	△♦TEC	140 - 68
	CEI	CRI	
	CSR	♦ETC	
	GSE	IDI	
	NJS	SCA	
	SLD	SSI	
	SST	STI	
		♦UNI	

TYPE No.	MFRS	Pg&Line
2N549	△♦TEC	140 - 69
	CRI	CSR	
	♦ETC	GSE	
	IDI	NJS	
	SCA	SLD	
	SSI	SST	
	STI	♦UNI	
2N550	△♦TEC	140 - 70
	CEI	CRI	
	CSR	♦ETC	
	GSE	IDI	
	NJS	SCA	
	SLD	SSI	
	SST	STI	
2N551	△♦TEC	140 - 64
	CRI	CSR	
	♦ETC	IDI	
	NJS	SCA	
	SLD	SSI	
	SST	STI	
	♦UNI	
2N552	△♦TEC	140 - 65
	CEI	CRI	
	CSR	♦ETC	
	IDI	NJS	
	SCA	SLD	
	SSI	SST	
	STI	
2N553	CRI	166 - 60
	CSR	♦ETC	
	GPD	MOTA	
	NJS	♦SES	
	SST	STC	
	STI	
2N554	△♦MOTA	168 - 98
	CEI	CRI	
	CSR	♦DEL	
	♦ETC	GPD	
	NJS	♦SES	
	SLD	SST	
	STI	
2N555	△♦MOTA	168 - 99
	CEI	CSR	
	ESI	♦ETC	
	GPD	NJS	
	♦SES	SST	
	STI	
2N556	CRI	91 - 62
	CSR	ETC	235 - 59
	IDI	NJS	
2N557	CRI	91 - 63
	CSR	♦ETC	236 - 6
	IDI	NJS	
2N558	CEI	91 - 64
	CRI	CSR	235 - 60
	ETC	IDI	
	NJS	
JAN2N559	MOTA	86 - 4
		267 - 25
2N560	CRI	137 - 74
	CSR	NJS	250-107
	SCA	SES	
	SSI	STI	
	TADI	
JAN2N560	SSI	137 - 23
		234 - 50
2N561	CRI	167 - 89
	CSR	♦ETC	
	GPD	NJS	
	SES	STC	
2N563	CRI	84 - 36
	CSR	♦ETC	
	NJS	
2N564	CRI	82 - 73
	CSR	♦ETC	
	IDI	NJS	
	STI	
2N565	CRI	84 - 44
	CSR	♦ETC	
	NJS	STI	
2N566	CRI	82 - 74
	CSR	♦ETC	
	IDI	NJS	
	STI	
2N567	CRI	84 - 76
	CSR	♦ETC	
	NJS	STI	
2N568	CRI	82 - 75
	CSR	♦ETC	
	IDI	NJS	
	STI	
2N569	CRI	84 - 85
	CSR	♦ETC	
	NJS	STI	
2N570	CRI	82 - 77
	CSR	♦ETC	
	IDI	NJS	
	STI	UPI	
2N571	CRI	84-105
	CSR	♦ETC	
	NJS	STI	
2N572	CRI	82 - 78
	CSR	♦ETC	
	IDI	NJS	
	STI	
2N573	CRI	86-100
	CSR	ETC	
	IDI	NJS	
2N574	CSR	172 - 85
	GPD	SSI	
	SST	
JAN2N574	none	172 - 86
2N574A	GPD	172 - 87
	SSI	SST

TYPE No.	MFRS	Pg&Line
2N575	GPD	172 - 88
	SSI	SST
JAN2N575	none	172 - 89
2N575A	GPD	172 - 90
	SSI	SST
JAN2N575A	none	172 - 91
2N576	CRI	93 - 5
	CSR	♦ETC	243 - 6
	IDI	NJS	
2N576A	CSR	93 - 7
	ESI	♦ETC	242 - 93
	IDI	NJS	
2N578	CRI	82 - 82
	CSR	♦ETC	242 - 25
	IDI	NJS	
	STI	UPI	
2N579	CRI	82 - 85
	CSR	♦ETC	242 - 83
	IDI	NJS	
	SEI	STI	
	UPI	
2N580	CRI	82 - 94
	CSR	♦ETC	244 - 50
	IDI	NJS	
	STI	UPI	
2N581	CRI	80-104
	CSR	♦ETC	
	IDI	NJS	
	SLD	SST	
	STI	TII	
	UPI	
2N582	CRI	82 - 95
	CSR	♦ETC	
	IDI	NJS	
	SES	SLD	
	SST	STI	
	TII	
2N583	CRI	80-105
	CSR	ETC	
	IDI	NJS	
2N584	CRI	82 - 96
	CSR	♦ETC	
	NJS	
2N585	CRI	91-103
	CSR	♦ETC	
	NJS	SES	
2N586	CRI	88 - 97
	CSR	♦ETC	
	NJS	
2N587	CRI	92 - 13
	CSR	♦ETC	235 - 23
	IDI	NJS	
	SLD	SST	
	STI	TII	
2N588	CRI	78 - 81
	CSR	♦ETC	
	NJS	SCA	
	♦SPR	
2N588A	STI	79 - 98
2N589	CRI	169 - 51
	CSR	♦ETC	
	GPD	NJS	
2N591	CRI	79 - 8
	CSR	ETC	
	NJS	
2N592	CRI	268 - 6
	CSR	STI	
2N593	CRI	268 - 7
	CSR	STI	
2N594	CRI	268 - 8
	PRE	SEI	
	SLD	SST	
	STI	TII	
2N595	CRI	268 - 9
	PRE	SEI	
	SLD	SST	
	STI	TII	
2N596	CRI	268 - 10
	IDC	PRE	
	SEI	SLD	
	SST	TII	
2N597	CRI	89 - 24
	CSR	♦ETC	
	IDI	NJS	
	STI	
2N598	CRI	89 - 27
	CSR	ESI	242 - 40
	♦ETC	IDI	
	NJS	STI	
JAN2N598	none	89 - 28
2N599	CRI	89 - 31
	CSR	♦ETC	243 - 37
	IDI	NJS	
	SSI	STI	
JAN2N599	none	89 - 32
		243 - 38
2N600	SSI	90 - 63
		242 - 75
JAN2N600	none	90 - 62
2N601	IDC	90 - 66
	SSI	244 - 75
2N602	CSR	82 - 97
	IDI	SCA	
	SSI	
2N602A	CSR	82 - 90
	SCA	SSI	
2N603	IDI	82-109
	SCA	SSI	
2N603A	CSR	82 - 91
	SCA	SSI	
2N604	IDI	83 - 3
	SCA	SSI	
JAN2N604	none	82-110
		252 - 25

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1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N604A	CSR	82 - 92
SCA	SSI	
2N605	STI	82 - 62
2N606	STI	82 - 63
2N607	STI	82 - 64
2N608	STI	82 - 65
2N609	CSR	86 - 73
♦ETC	NJS	
2N610	CSR	86 - 74
♦ETC	IDI	
NJS	UPI	
2N611	CSR	86 - 75
♦ETC	IDI	
NJS	UPI	
2N612	CSR	86 - 77
♦ETC	IDI	
	NJS	
2N613	CRI	86 - 78
CSR	♦ETC	
IDI	NJS	
	UPI	
2N614	CSR	83 - 53
♦ETC	IDI	
	NJS	
2N615	CSR	83 - 54
♦ETC	IDI	
	NJS	
2N616	CSR	85 - 49
♦ETC	IDI	
NJS	UPI	
2N617	CSR	83 - 55
♦ETC	IDI	
NJS	UPI	
2N618	Δ♦MOTA	168 - 32
CRI	CSR	242 - 36
♦ETC	GPD	
NJS	♦SES	
SST	STC	
2N619	SCA	122 - 32
2N620	SCA	122 - 33
2N621	SCA	122 - 34
2N622	IDI	112 - 1
	SCA	
2N627	Δ♦MOTA	169 - 52
CRI	CSR	
♦ETC	GPD	
IDC	NJS	
♦SES	STC	
2N628	Δ♦MOTA	169 - 53
CRI	CSR	
♦ETC	GPD	
IDC	NJS	
PRE	SEI	
♦SES	STC	
2N629	Δ♦MOTA	169 - 54
CRI	CSR	
♦ETC	GPD	
IDC	NJS	
PRE	SEI	
♦SES	STC	
2N630	Δ♦MOTA	169 - 55
CRI	CSR	
♦ETC	GPD	
IDC	NJS	
PRE	SEI	
♦SES	STC	
2N631	CRI	78 - 15
CSR	♦ETC	
IDI	NJS	
SSI	STI	
	UPI	
2N632	CRI	78 - 13
CSR	♦ETC	
IDI	NJS	
STI	UPI	
2N633	CRI	78 - 10
CSR	♦ETC	
IDI	NJS	
STI	UPI	
2N634	CRI	92 - 72
CSR	♦ETC	
	NJS	
2N634A	CSR	92 - 73
♦ETC	NJS	
SLD	SST	
	TII	
2N635	CRI	92 - 82
CSR	♦ETC	
	NJS	
2N635A	CSR	92 - 83
♦ETC	NJS	
SLD	SST	
	TII	
2N636	CRI	92 - 91
CSR	♦ETC	
	NJS	
2N636A	CSR	92 - 92
♦ETC	NJS	
SLD	SST	
	TII	
2N637	CRI	166 - 61
CSR	♦ETC	236 - 89
GPD	IDC	
NJS	♦SES	
	STC	
2N637A	CSR	166 - 62
♦ETC	GPD	236 - 90
NJS	♦SES	
	STC	
2N637B	CSR	166 - 63
♦ETC	GPD	236 - 91
NJS	♦SES	
	STC	

TYPE No.	MFRS	Pg&Line
2N638	Δ♦SOD	166 - 64
CRI	CSR	236 - 92
♦ETC	GPD	
NJS	♦SES	
	STC	
2N638A	Δ♦SOD	166 - 65
CSR	♦ETC	236 - 93
GPD	NJS	
♦SES	STC	
2N638B	Δ♦SOD	166 - 66
CSR	♦ETC	236 - 94
GPD	NJS	
♦SES	STC	
2N639	CRI	166 - 67
CSR	♦ETC	236 - 95
GPD	NJS	
SES	STC	
2N639A	CSR	166 - 68
♦ETC	GPD	236 - 96
NJS	SES	
2N639B	CSR	166 - 69
♦ETC	GPD	236 - 97
NJS	SES	
2N647	CSR	91 - 65
ETC	NJS	
2N649	CSR	91 - 66
ETC	NJS	
2N650	Δ♦MOTA	87 - 19
CRI	CSR	
♦ETC	IDI	
NJS	PRE	
SEI	♦SES	
SSI	STI	
2N650A	Δ♦MOTA	87 - 20
CSR	ESI	
ETC	IDI	
NJS	♦SES	
SSI	STI	
JAN2N650A	♦MOTA	87 - 21
2N651	Δ♦MOTA	87 - 42
CSR	♦ETC	
IDI	NJS	
PRE	SEI	
♦SES	SSI	
STI	WAB	
2N651A	Δ♦MOTA	87 - 43
CRI	CSR	
ESI	ETC	
IDI	NJS	
♦SES	SSI	
STI	WAB	
JAN2N651A	♦MOTA	87 - 44
2N652	Δ♦MOTA	87 - 64
CSR	♦ETC	
IDI	NJS	
♦SES	SSI	
SST	STI	
	WAB	
2N652A	Δ♦MOTA	87 - 65
CRI	CSR	
ESI	♦ETC	
IDI	NJS	
♦SES	SSI	
STI	WAB	
JAN2N652A	♦MOTA	87 - 66
2N653	Δ♦MOTA	87 - 80
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
	UPI	
2N654	Δ♦MOTA	87 - 95
CRI	CSR	
♦ETC	IDI	
NJS	♦SES	
	STI	
2N655	Δ♦MOTA	87-103
CRI	CSR	
♦ETC	IDI	
NJS	♦SES	
STI	UPI	
2N656	Δ♦TII	191 - 29
CRI	CSI	
CSR	♦ETC	
HSC	IDI	
♦MOTA	NJS	
NTR	PHIN	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SLD	SSI	
SST	STI	
♦TRW	UPI	
JAN2N656	TEC	144 - 65
	TII	
2N656A	CRI	192 - 52
CSR	♦ETC	
IDI	NJS	
PRE	SCA	
SDE	SEI	
SES	SLD	
SSI	SST	
STI	TADI	
TEC	TII	
2N657	Δ♦TII	191 - 30
CRI	CSI	
CSR	ESI	
♦ETC	♦FSC	
HSC	IDI	
♦MOTA	NJS	
NTR	PHIN	
PRE	♦RTN	

cont.next col.

TYPE No.	MFRS	Pg&Line
2N657 (cont.)	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	SSI	
SST	STI	
TADI	♦TEC	
TIIB	TIIF	
	UPI	
JAN2N657	TEC	144 - 66
	TII	
2N657A	CRI	192 - 53
CSR	♦ETC	
IDI	NJS	
PRE	SCA	
SDE	SEI	
SES	SLD	
SSI	SST	
STI	TADI	
TEC	TII	
	UPI	
2N658	CRI	78 - 22
CSR	♦ETC	
IDI	NJS	
SLD	SST	
STI	♦TII	
2N659	CRI	78 - 35
CSR	♦ETC	
IDI	NJS	
SLD	SSI	
SST	STI	
♦TII	UPI	
2N660	CRI	78 - 38
CSR	♦ETC	
IDI	NJS	
♦SES	SLD	
SSI	SST	
STI	♦TII	
	UPI	
2N661	CRI	78 - 41
CSR	♦ETC	
IDI	NJS	
♦SES	SLD	
SST	STI	
♦TII	UPI	
2N662	CSR	78 - 28
♦ETC	IDI	
NJS	♦SES	
SLD	SST	
STI	♦TII	
	UPI	
2N663	CRI	166 - 70
CSR	♦ETC	238 - 11
GPD	NJS	
	STC	
2N665	CRI	166 - 71
CSR	ESI	
♦ETC	GPD	
MOTA	NJS	
♦SES	STC	
JAN2N665	♦MOTA	166 - 72
	STC	
2N669	Δ♦MOTA	169 - 56
CRI	CSR	
♦DEL	♦ETC	
GPD	NJS	
♦SES	SLD	
SST	STC	
2N670	SSI	89 - 66
2N671	SSI	90 - 84
2N672	CSR	89 - 57
♦ETC	NJS	235 - 4
	SSI	
2N673	SSI	90 - 82
		235 - 5
2N674	SSI	89 - 64
2N675	SSI	90 - 83
2N677	CRI	169 - 57
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N677A	CRI	169 - 58
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N677B	CSR	169 - 59
♦ETC	GPD	
NJS	♦SES	
	STC	
2N677C	CSR	169 - 60
GPD	♦SES	
2N678	Δ♦SOD	169 - 61
CRI	CSR	
♦ETC	GPD	
NJS	♦SES	
	STC	
2N678A	Δ♦SOD	169 - 62
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N678B	Δ♦SOD	169 - 63
CSR	GPD	
NJS	♦SES	
	STC	
2N678C	Δ♦SOD	169 - 64
CSR	GPD	
NJS	♦SES	
2N679	CSR	92 - 35
♦ETC	NJS	241 - 39
2N680	CSR	83 - 87
♦ETC	NJS	
PRE	SEI	
JAN2N695	none	80 - 49
		234 - 68

TYPE No.	MFRS	Pg&Line
2N696	Δ♦FSC	141 - 41
CEI	CRI	
CSI	CSR	
ELMA	♦ETC	
ETIF	♦FERB	
HSC	IDI	
ITT	MEHK	
MISI	♦MOTA	
♦MULB	NASB	
NJS	♦NPC	
PHIC	PHIN	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SSI	
SST	STI	
TADI	♦TEC	
TIID	TIIF	
♦TSC	UPI	
JAN2N696	TSC	140 - 95
		251 - 76
2N696A	IDI	144 -106
NTR	SCA	249 - 85
	STI	
2N697	Δ♦FSC	141 - 53
CEI	CRI	
CSI	CSR	
ELMA	ESI	
♦ETC	ETIF	
♦FERB	HSC	
IDC	IDI	
♦ITT	KER	
MEHK	MISI	
♦MOTA	♦MULB	
NASB	NJS	
♦NPC	♦NSC	
♦NTLB	NTR	
PHIC	PHIN	
PRE	♦RCA	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	SSI	
SST	STI	
TADI	♦TEC	
THCF	♦TII	
TIID	TIIF	
♦TSC	UPI	
JAN2N697	TSC	141 - 26
		252 - 59
2N697A	CSR	145 - 12
♦ETC	IDI	251 - 75
NJS	RTN	
SCA	STI	
	TADI	
2N698	Δ♦FSC	144-107
CEI	CRI	
CSI	CSR	
ETIF	IDI	
MISI	NJS	
NPC	PHIN	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SSI	
SST	STI	
TADI	♦TEC	
THCF	♦TII	
TIID	TIIF	
♦TSC	UPI	
2N699	Δ♦FSC	112 - 2
CEI	CRI	
CSI	CSR	
♦ETC	ETIF	
HSC	HZN	
IDI	MEHK	
MISI	♦MOTA	
NASB	NJS	
NPC	NSC	
NTR	PHIN	
PRE	♦RCA	
♦RTN	SCA	
SDE	SEI	
♦SES	SSI	
SST	STI	
TADI	♦TEC	
THCF	♦TII	
TIID	TIIF	
♦TSC	UPI	
2N699A	CSI	145 - 13
CSR	♦ETC	
IDI	NJS	
NTR	♦RTN	
SCA	SDE	
♦SES	SSI	
STI	TADI	
2N699B	Δ♦FSC	148 - 42
CSI	CSR	
ETC	IDI	
NJS	NTR	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SSI	
STI	TADI	
2N700	Δ♦MOTA	80 - 50
CSR	IDC	
	SSI	
2N700A	Δ♦MOTA	80 - 51
CSR	SSI	
JAN2N700A	MOTA	80 - 76
2N702	CEI	126 - 2

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TYPE No.	MFRS	Pg&Line
2N702 (cont.)	CRI	
CSR	ETC	
IDI	♦MOTA	
NJS	SCA	
SSI	STI	
	TADI	
JAN2N702	none	125 - 57
2N703	CEI	126 - 3
CSR	ETC	
♦FSC	IDI	
♦MOTA	NJS	
SCA	SSI	
STI	TADI	
JAN2N703	MOTA	125 - 58
2N705	CSR	90 - 19
ESI	IDI	263 - 64
♦MOTA	PHIN	
♦SES	SLD	
	SST	
JAN2N705	MOTA	83 - 88
	TII	234 - 69
2N705A	CSR	83 - 89
IDI	♦SES	234 - 70
2N706	Δ♦FSC	128 - 74
ALGG	CEI	
CRI	CSI	
CSR	ELMA	
♦ETC	ETIF	
♦FERB	IDC	
IDI	♦ITT	
ITTB	MEHK	
MISI	♦MOTA	
NASB	NJS	
♦NPC	NSC	
♦NTLB	NTR	
PHIC	PRE	
♦RTCF	RTN	
SDE	SEI	
♦SES	SGAI	
SLD	SST	
STI	TADI	
♦TEC	THCF	
TIIF	♦TSC	
	UPI	
JAN2N706	ITT	126 - 92
MOTA	NSC	266 - 86
RTN	TEC	
	TSC	
2N706/46	NJS	136 - 12
	SCA	258 - 18
2N706A	♦BELI	126 - 93
CEI	CRI	258 - 93
CSI	CSR	
ELMA	♦ETC	
ETIF	♦FERB	
FSC	IDI	
♦ITT	ITTB	
KER	MISI	
♦MOTA	NJS	
♦NPC	♦NTLB	
♦PHIC	♦PHIN	
PRE	♦RTCF	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	SST	
STI	TADI	
♦TEC	THCF	
TIIF	♦TSC	
	UPI	
2N706B46	SCA	136 - 50
2N706B	Δ♦MOTA	128 - 75
CSI	CSR	264-107
ETC	FSC	
HZN	IDI	
♦ITT	NJS	
♦RTN	SCA	
SDE	♦SES	
SLD	SST	
STI	TADI	
TEC	TIIF	
	UPI	
2N706C	CSI	133 - 55
CSR	ETC	258 - 94
NJS	RTN	
SDE	♦SES	
	STI	
2N707	CSR	128 - 76
♦ETC	IDI	
ITT	♦MOTA	
NJS	SCA	
SGAI	SSI	
	STI	
2N707A	CSR	138 - 28
♦ETC	IDI	
♦MOTA	NJS	
PRE	SCA	
SEI	SSI	
	STI	
2N708	Δ♦FSC	134 - 13
ALGG	♦BELI	
CRI	CSI	
CSR	ELMA	
♦ETC	ETIF	
♦FERB	IDI	
♦ITT	ITTB	
KER	MEHK	
MISI	♦MOTA	
NASB	NJS	
♦NPC	NSC	
♦NTLB	NTR	
♦PHIC	♦PHIN	

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N708		
(cont.)	♦RTCF	
	♦RTN	SDE
	♦SES	SGAI
	SLD	SST
	STI	TADI
	♦TEC	THCF
	TIIF	♦TSC
		UPI
JAN2N708	ITT	134 - 14
	MOTA	TEC 263 - 18
2N708A	IDC	134 - 15
		STI
2N709	Δ♦FSC	129 - 1
	CRI	CSR 266 - 49
	♦ETC	FERB
	♦MOTA	NJS
	PHIC	RTCF
	SCA	SDE
	♦SES	SGAI
	TADI	♦TEC
	TIIF	VALG
2N709/46	SCA	136 - 75
		267 - 33
2N709A46	SCA	136 - 69
		267 - 18
2N709A	CSR	129 - 21
	NJS	SCA 266 - 95
	SES	SGAI
	TADI	♦TEC
2N710	IDI	90 - 20
	MOTA	♦SES 263 - 65
	SLD	SST
2N710A	♦SES	83 - 90
		234 - 71
2N711	IDI	85 - 93
	♦MOTA	PHIN 257 - 43
	♦SES	SLD
	SSI	SST
		TIID
2N711A	ESI	85 - 94
	IDI	♦MOTA 257 - 44
	♦SES	SLD
	SST	TIID
2N711B	IDI	85 - 95
	♦MOTA	♦SES 257 - 45
	SLD	SST
		TIID
2N715	ETC	138 - 29
	IDI	NJS
	SCA	SSI
		STI
2N716	ETC	138 - 30
	IDI	NJS
	SCA	SSI
2N717	CRI	135 - 67
	CSR	♦ETC
	MOTA	NJS
	♦RTN	SDE
	♦SES	TADI
	♦TEC	♦TII
	TIIB	TIID
	TIIF	UPI
2N718	Δ♦FSC	135 - 70
	CRI	CSI
	CSR	♦ETC
	HSC	IDI
	♦ITT	MEHK
	♦MOTA	♦MULB
	NASB	NJS
	♦NSC	NTR
	♦RTN	SDE
	♦SES	SLD
	SST	TADI
	♦TEC	♦TII
	TIIB	TIID
	TIIF	TSC
		UPI
2N718A	Δ♦FSC	138 - 4
	CSI	CSR
	♦ETC	HSC
	IDI	♦MOTA
	NJS	NTR
	♦RTN	SCA
	SDE	♦SES
	SSI	SST
	TADI	TEC
	♦TII	TIIB
	TIID	TIIF
		TSC
JAN2N718A	MOTA	138 - 5
	RTN	TII
		TSC
2N719	Δ♦FSC	135 - 68
	CRI	CSI
	CSR	♦ETC
	IDI	NJS
	♦RTN	SCA
	SDE	♦SES
	SGAI	TADI
	TEC	♦TII
	TIID	TIIF
		UPI
2N719A	Δ♦FSC	137 - 66
	CSR	♦ETC
	IDI	SCA
	SES	TADI
	♦TII	TIID
	TIIF	UPI
2N720	Δ♦FSC	135 - 71
	CRI	CSI
	CSR	♦ETC
	IDI	NJS

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TYPE No.	MFRS	Pg&Line
2N720		
(cont.)	NTR	
	PRE	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SST	TADI
	TEC	♦TII
	TIIB	TIID
	TIIF	TSC
		UPI
2N720A	Δ♦FSC	137 - 75
	CSI	CSR
	ESI	♦ETC
	IDI	KER
	♦MOTA	NJS
	PRE	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SST	TADI
	♦TII	TIIB
	TIID	TIIF
	♦TSC	UPI
JAN2N720A	TSC	138 - 6
2N721	CRI	106 - 15
	CSI	CSR
	ETC	IDI
	NJS	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	SLD
	SST	TADI
	♦TEC	♦TII
	TIIB	TIIF
2N721A	CEI	106 - 16
	♦RTN	TADI
2N722	Δ♦FSC	106 - 23
	CRI	CSI
	CSR	♦ETC
	IDI	ITT
	MEHK	♦MOTA
	NASB	NJS
	♦NPC	NSC
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	SLD
	SST	TADI
	♦TEC	♦TII
	TIIB	TIIF
2N722A	CSR	106 - 41
	NJS	♦RTN
	SCA	SLD
	SST	TADI
	TEC	
2N726	CEI	99 -104
	CRI	CSR
	ETC	IDI
	NJS	PRE
	SCA	SEI
	SLD	SSI
	SST	TADI
	TEC	TIIF
2N727	CEI	99 -105
	CRI	CSR
	ETC	FERB
	IDI	♦MOTA
	NJS	SCA
	SLD	SSI
	SST	TADI
	TEC	TIIF
2N730	Δ♦TII	137 - 67
	CEI	CRI
	CSI	CSR
	♦ETC	NJS
	RTN	SDE
	♦SES	STI
	TADI	♦TEC
	TIID	TIIF
2N731	Δ♦TII	137 - 76
	CRI	CSI
	CSR	♦ETC
	IDI	MOTA
	NJS	NTR
	RTN	SCA
	SDE	♦SES
	STI	TADI
	♦TEC	TIIB
	TIID	TIIF
2N734	CRI	137 - 24
	CSR	♦ETC
	IDI	NJS
	SCA	SES
	SSI	TADI
	♦TEC	TIIF
2N735	CRI	137 - 25
	CSR	♦ETC
	ETIF	IDI
	♦MOTA	NJS
	PRE	SCA
	SEI	SSI
	TADI	♦TEC
		TIIF
2N735A	CSR	138 - 7
	♦ETC	ETIF
	NJS	SSI
		TADI
2N736	♦ETC	137 - 26
	ETIF	IDI
	♦MOTA	NJS
	SCA	SSI
	TADI	♦TEC
		TIIF

TYPE No.	MFRS	Pg&Line
2N736A	CSR	138 - 51
	♦ETC	NJS
	SSI	TADI
	TIID	TIIF
2N736B	CSR	138 - 52
	♦ETC	NJS
		SSI
2N738	CSR	137 - 27
	♦ETC	IDI
	NJS	PRE
	SCA	SEI
	SSI	♦TEC
		TIIF
2N739	CRI	137 - 28
	CSR	♦ETC
	IDI	♦MOTA
	NJS	SCA
	SSI	♦TEC
		TIIF
2N739A	CSR	138 - 8
	♦ETC	NJS
		SSI
2N740	CSR	137 - 29
	♦ETC	IDI
	♦MOTA	NJS
	SCA	SSI
	♦TEC	TIIF
2N740A	CSR	138 - 53
	♦ETC	IDI
	NJS	SCA
		SSI
2N741	Δ♦MOTA	83 - 91
	IDI	SSI
2N741A	Δ♦MOTA	86 - 5
		IDI
2N742	♦ETC	137 - 30
	IDI	NJS
	SCA	SSI
		TADI
2N742A	CSR	137 - 31
	ETC	IDI
	NJS	SCA
	SSI	TADI
2N743	♦BELI	127 - 84
	CRI	CSI 262 - 41
	CSR	ETC
	ETIF	♦FSC
	IDI	♦ITT
	ITTB	MISI
	♦MOTA	NJS
	NSC	PHIC
	♦PHIN	♦RTCF
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	TADI
	TEC	THCF
	TIID	TIIF
		UPI
2N743A	CSI	134 -103
	CSR	IDI 265 - 74
	NJS	RTN
	SCA	SDE
		♦SES
2N744	♦BELI	127 - 85
	CEI	CSI 262 - 42
	CSR	ETC
	ETIF	IDI
	♦ITT	ITTB
	MEHK	MISI
	♦MOTA	NASB
	NJS	NSC
	NTR	PHIC
	♦PHIN	PRE
	♦RTCF	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SST	STI
	TADI	TEC
	TIID	TIIF
	UPI	
JAN2N744	none	127 - 86
		262 - 43
2N744A	CSI	134 -104
	CSR	IDI 265 - 75
	NJS	RTN
	SCA	SDE
		♦SES
2N752	CSR	138 -101
	ETC	IDI
	NJS	SCA
		SSI
2N753	♦BELI	126 - 94
	CSR	ELMA 258 - 95
	♦ETC	FERB
	♦ITT	ITTB
	MEHK	MISI
	♦MOTA	NASB
	NJS	NSC
	NTR	♦PHIN
	PRE	SEI
	SES	SGAI
	SLD	SST
	STI	TADI
	TEC	THCF
	TIID	TIIF
	♦TSC	UPI
2N753/46	SCA	136 - 13
2N754	CSR	124 - 43
	♦ETC	IDI
	NJS	SCA
		SSI

TYPE No.	MFRS	Pg&Line
2N755	CSR	124 - 44
	♦ETC	IDI
	NJS	SCA
		SSI
2N756	CSR	137 - 77
	ETC	IDI
	NJS	SCA
		STI
2N756A	CSR	137 - 78
	ETC	IDI
	NJS	SCA
2N757	CSR	137 - 79
	ETC	IDI
	NJS	SCA
		STI
2N757A	CSR	137 - 80
	ETC	IDI
	NJS	SCA
JAN2N757A	none	138 - 9
2N758	CSR	137 - 81
	ETC	IDI
	NJS	SCA
		STI
2N758A	CSR	137 - 82
	ETC	IDI
	NJS	SCA
2N758B	CSR	137 - 83
	IDI	NJS
	SCA	SSI
2N759	ΔNSC	137 - 84
	ETC	IDI
	NJS	SCA
	SLD	SST
	STI	TADI
2N759A	CSR	137 - 85
	ETC	IDI
	NJS	SCA
		TADI
JAN2N759A	none	138 - 10
2N759B	ETC	137 - 86
	IDI	NJS
	SCA	SSI
2N760	Δ♦NSC	137 - 87
	CSI	CSR
	ETC	IDI
	ITT	NASB
	NJS	NTR
	PRE	♦RTN
	SCA	SDE
	SEI	♦SES
	SLD	SST
	STI	TADI
		♦TSC
2N760A	Δ♦NSC	137 - 88
	CSI	CSR
	ETC	IDI
	ITT	KER
	NASB	NJS
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	STI	TADI
		♦TSC
JAN2N760A	NSC	138 - 11
	RTN	TSC
2N760B	ETC	137 - 89
	IDI	SCA
	SES	SSI
2N761	CEI	137 - 90
	CSR	ETC
	NJS	SSI
		STI
2N762	CEI	137 - 91
	ETC	NJS
	SSI	STI
		TADI
2N768	IDC	78 - 84
	IDI	♦SPR
2N769	IDC	78 - 98
	IDI	♦SPR 267 - 13
2N779	IDI	79 -107
	SSI	263 - 80
2N779A	IDC	79 -108
	IDI	SES 265 - 51
	♦SPR	SSI
2N780	CSR	125 - 11
	♦ETC	NJS
2N782	IDI	83 - 92
		♦SES 234 - 72
2N783	CEI	126 - 95
	CSI	CSR 258 - 31
	♦ETC	IDI
	ITT	NJS
	RTN	SCA
	SDE	♦SES
	SLD	SST
		UPI
2N784	CEI	126 - 96
	CSI	CSR 258 - 34
	♦ETC	IDI
	♦ITT	NJS
	RTN	SCA
	SDE	♦SES
	SLD	SST
		UPI
2N784A	CSI	134 - 16
	CSR	♦ETC 262 - 76
	NJS	RTN
	SDE	♦SES
2N794	IDI	82 -100
	SES	♦SPR 246 - 36
		SSI

TYPE No.	MFRS	Pg&Line
2N795	IDC	82 -108
	IDI	SES 248 -109
	♦SPR	SSI
2N796	IDC	83 - 1
	IDI	SES 252 - 32
	♦SPR	SSI
2N797	IDI	92 - 95
	PRE	SEI 266 - 63
	SES	SLD
	SST	TIID
2N827	Δ♦MOTA	85 -107
	IDI	SSI
2N828	ΔMOTA	86 - 6
	IDI	♦SES 263 - 60
		SSI
2N828A	Δ♦MOTA	86 - 30
	IDI	SSI
2N829	Δ♦MOTA	86 - 7
	IDI	SSI 263 - 44
2N834	Δ♦MOTA	128 - 52
	CSI	CSR 264 - 25
	ETC	♦FSC
	HSC	IDC
	IDI	♦ITT
	MEHK	MISI
	NASB	NJS
	NSC	NTR
	PRE	RTN
	SCA	SDE
	SEI	♦SES
	SLD	SST
	♦TEC	THCF
		UPI
2N834/46	SCA	136 - 53
		264 - 26
2N834A	CSI	134 -105
	CSR	IDI 265 -108
	ITT	NJS
	RTN	SCA
	SDE	♦SES
	SLD	SST
2N835	Δ♦MOTA	128 - 94
	CSI	CSR 265 - 57
	ETC	HSC
	IDI	♦ITT
	NJS	PRE
	RTN	SCA
	SDE	SEI
	♦SES	SLD
	SST	♦TEC
		UPI
2N835/46	SCA	136 - 54
		262 - 77
2N837	Δ♦SES	83 - 93
	IDI	234 - 5
2N838	Δ♦MOTA	86 - 8
	IDI	
2N839	♦ETC	124 - 45
	IDI	NJS
	SCA	SSI
2N840	♦ETC	124 - 46
	IDI	♦MOTA
	NJS	SCA
		SSI
2N841	♦ETC	124 - 74
	IDI	♦MOTA
	NJS	SCA
		SSI
2N841/46	SCA	124 - 75
2N842	ETC	124 - 47
	IDI	NJS
	SCA	SSI
2N843	ETC	124 - 76
	IDI	MOTA
	NJS	SCA
		SSI
2N844	IDI	124 - 97
	SCA	SSI
2N845	IDI	124 - 98
	SCA	SSI
2N846A	IDC	79 -109
	IDI	♦SPR 265 - 52
2N849	Δ♦TII	126 - 97
	SCA	TIID 258 - 96
		TIIF
2N850	Δ♦TII	126 - 98
	SCA	TIID 258 - 97
		TIIF
2N851	Δ♦TII	127 - 87
	SCA	TIID 262 - 44
		TIIF
2N852	Δ♦TII	127 - 88
	SCA	TIIB 262 - 45
	TIID	TIIF
2N858	CSR	94 - 99
	IDC	IDI 241 -103
	NJS	♦SPR
	SSI	♦TCY
2N859	CSR	94 -100
	IDC	IDI 242 - 41
	NJS	♦SPR
	SSI	♦TCY
2N860	CSR	94 -108
	IDC	IDI 242 - 55
	NJS	♦SPR
	SSI	♦TCY
2N861	CSR	95 - 9
	IDC	IDI 242 - 68
	NJS	♦SPR
	SSI	♦TCY
2N862	CSR	95 - 12
	IDC	IDI 242 - 71
	NJS	♦SPR
	SSI	♦TCY

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TYPE No.	MFRS	Pg&Line
2N863	CSR	95 - 20
	IDI	243 - 36
	NJS	♦SPR
	SSI	♦TCY
2N864	CSR	95 - 26
	IDI	244 - 71
	NJS	SCA
	♦SPR	SSI
		♦TCY
2N864A		△TCY 99 - 24
	IDC	244 - 72
2N865	CSR	95 - 34
	IDI	245 -100
	NJS	SCA
	♦SPR	SSI
		♦TCY
2N865A		△TCY 99 - 32
		245 -101
2N869		△♦FSC 103 - 77
	CEI	CSR
	ETC	IDI
	ITT	♦MOTA
	NASB	NJS
	NSC	NTR
	PRE	SCA
	SEI	SLD
	SST	TADI
		TEC
2N869A	CSR	104 - 95
	ESI	IDI 266 - 70
	ITT	♦MOTA
	NJS	NSC
	NTR	PRE
	RTN	SCA
	SDE	SEI
	♦SES	SLD
	SST	TADI
		TEC
JAN2N869A	MOTA	104 - 68
	TEC	267 - 23
2N870		△♦FSC 137 - 92
	CSI	CSR
	♦ETC	IDI
	NJS	NTR
	RTN	SCA
	SDE	♦SES
	TADI	TEC
	♦TII	TIIB
	TIID	TIIF
		UPI
2N871		△♦FSC 138 - 12
	CSI	CSR
	♦ETC	IDI
	NJS	NTR
	♦RTN	SCA
	SDE	♦SES
	TADI	TEC
	♦TII	TIID
	TIIF	UPI
2N909	CEI	135 - 72
	CSR	ETC
	FSC	IDI
	NJS	SCA
	SES	TEC
		UPI
2N910		△♦FSC 138 - 13
	CRI	CSI
	CSR	♦ETC
	IDI	♦MOTA
	NJS	NTR
	♦RTN	SCA
	SDE	♦SES
	TADI	TEC
	♦TII	TSC
		UPI
JAN2N910	RTN	138 - 14
2N911		△♦FSC 137 - 93
	CSI	CSR
	♦ETC	IDI
	♦MOTA	NJS
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	TADI
	TEC	♦TII
	TSC	UPI
JAN2N911	RTN	137 - 94
2N912	CSI	137 - 68
	CSR	♦ETC
	IDI	NJS
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	TADI
	TEC	♦TII
	♦TSC	UPI
JAN2N912	RTN	137 - 69
2N913	IDI	134 - 52
	SCA	
2N914		△♦FSC 134 - 17
	ALGG	♦BELI 263 - 19
	CEI	CRI
	CSR	ELMA
	♦ETC	ETIF
	IDC	ITT
	ITTB	MEHK
	MISI	♦MOTA
	NJS	♦NPC
	♦NTLB	PHIC
	♦PHIN	PRE
	♦RTCF	SEI
	SES	SGAI
	SLD	SST

cont.next col.

TYPE No.	MFRS	Pg&Line
2N914		
(cont.)	STI	
	TADI	TEC
	THCF	TIIF
	UPI	♦VALG
JAN2N914	MOTA	134 - 18
		267 - 32
2N914/46	SCA	134 -102
2N915		△♦FSC 133 - 82
	CSI	CSR
	♦ETC	HZN
	IDI	ITT
	KER	♦MEHK
	MOTA	NASB
	NJS	NSC
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SSI
	SST	TADI
		♦TSC
2N915A		△♦TSC 134 -106
	IDI	SCA
	SSI	TADI
2N916		△♦FSC 134 - 19
	CRI	CSI
	CSR	♦ETC
	HZN	IDC
	IDI	KER
	LTTF	♦MEHK
	♦MOTA	NJS
	NSC	NTR
	PRE	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SSI
	TADI	♦TSC
JAN2N916	MOTA	134 - 20
	RTN	TSC
2N916A	IDI	134 - 21
	RTN	SCA
	SSI	TADI
2N916B	IDI	134 -107
	SCA	SSI
		TADI
2N917	CEI	119 - 63
	CSI	CSR
	ETC	FSC
	HZN	IDI
	MEHK	MISI
	NASB	NJS
	♦NSC	NTR
	PRE	♦RTN
	SDE	SEI
	♦SES	SLD
	SSI	SST
	TADI	TEC
	THCF	♦TII
	TIIF	♦TSC
2N917/46	SCA	136 - 68
2N917A	CEI	119 - 80
	CSI	CSR
	IDI	NTR
	RTN	SCA
	SDE	♦SES
2N918		△♦FSC 119 - 81
	ALGG	BELI
	CEI	CRI
	CSI	CSR
	ELMA	ESI
	ETC	♦FERB
	HZN	IDI
	LTTF	MEHK
	MISI	♦MOTA
	NASB	NJS
	♦NPC	♦NSC
	♦NTLB	NTR
	PHIC	♦PHIN
	PRE	♦RCA
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	♦TSC
		♦VALG
JAN2N918	MOTA	119 - 82
	NSC	RCA
	RTN	TEC
	TII	TSC
2N919	CEI	133 - 56
	CSR	♦ETC 258 - 45
		NJS
2N920	CSR	133 - 57
	♦ETC	NJS 258 - 46
2N921	CSR	134 - 80
	♦ETC	NJS 264 - 52
2N922	CSR	134 - 81
	♦ETC	NJS
2N923	IDI	94 - 85
	RTN	SLD
	SSI	SST
		TCY
2N924	CSR	94 - 86
	IDI	RTN
	SLD	SOD
	SSI	SST
		TCY
2N925	IDI	94 - 87

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TYPE No.	MFRS	Pg&Line
2N925		
(cont.)	RTN	
	SLD	SSI
	SST	TCY
2N926	CSR	94 - 88
	IDI	RTN
	SLD	SSI
	SST	TCY
2N927	IDI	94 - 89
	SLD	SSI
	SST	TCY
2N928	IDI	94 - 90
	SLD	SSI
	SST	TCY
2N929		△♦TII 124 - 48
	ALGG	CEI
	CRI	CSI
	CSR	ELMA
	ETC	ETIF
	♦FERB	♦FSC
	HZN	IDI
	INTG	♦ITT
	ITTB	♦MEHK
	MISI	♦MOTA
	NASB	NJS
	♦NSC	♦NTLB
	NTR	PHIC
	♦PHIN	PRE
	♦RTCF	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SST	STI
	TADI	THCF
	TIIB	TIID
	TIIF	♦TSC
	UPI	♦VALG
JAN2N929	ITT	124 - 93
	MOTA	NSC
	RTN	TII
		TSC
2N929/46	SCA	135 - 60
2N929A	CSI	137 - 71
	CSR	HZN
	IDI	♦MEHK
	♦MOTA	NASB
	NSC	NTR
	PRE	♦RTN
	SDE	SEI
	♦SES	SLD
	SST	TADI
	TIIF	♦TSC
2N930		△♦TII 124 - 49
	ALGG	CEI
	CRI	CSI
	CSR	ELMA
	ETC	ETIF
	♦FERB	♦FSC
	HZN	IDI
	INTG	♦ITT
	ITTB	♦MEHK
	MISI	♦MOTA
	NASB	NJS
	♦NPC	♦NSC
	♦NTLB	NTR
	PHIC	♦PHIN
	PRE	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	STI	TADI
	TIID	TIIF
	♦TSC	UPI
JAN2N930	ITT	125 - 98
	MOTA	NSC
	RTN	TII
		TSC
2N930/46	SCA	135 - 61
2N930A	CSI	137 - 72
	CSR	HZN
	IDI	♦MEHK
	♦MOTA	NASB
	NJS	NSC
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	SLD
	SST	TADI
		TIIF
2N930A/46	SCA	135 - 62
2N930B	CSI	137 - 73
	CSR	NTR
	RTN	SDE
		♦SES
2N935	CSR	96 - 93
	IDI	RTN
	SLD	SSI
	SST	TADI
	♦TCY	TEC
2N936	CSR	96 - 94
	IDI	RTN
	SLD	SSI
	SST	TADI
	♦TCY	TEC
2N937	IDI	96 - 95
	RTN	SLD
	SSI	SST
	TADI	♦TCY
		TEC
2N938	IDI	97 - 12

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TYPE No.	MFRS	Pg&Line
2N938		
(cont.)	RTN	
	SLD	SSI
	SST	TADI
	♦TCY	TEC
2N939	CSR	97 - 36
	IDI	RTN
	SLD	SSI
	SST	TADI
	♦TCY	TEC
2N940	IDI	97 - 37
	RTN	SLD
	SSI	SST
	TADI	♦TCY
		TEC
2N941	IDI	97 - 65
	RTN	SSI 277 - 58
	TADI	♦TCY
2N942	RTN	97 - 63
	SSI	TADI 277 - 59
		♦TCY
2N943	CSR	97 - 13
	IDI	RTN 277 - 60
	SSI	TADI
		♦TCY
2N944	IDI	97 - 14
	RTN	SSI 277 - 61
	TADI	♦TCY
2N945	IDI	97 - 15
	PRE	RTN 277 - 62
	SEI	SSI
	TADI	♦TCY
2N946	CSR	97 - 16
	IDI	TADI 277 - 63
		♦TCY
2N947	CEI	133 - 58
	CSR	IDI
	SCA	SSI
2N956		△♦FSC 138 - 31
	CRI	CSI
	CSR	♦ETC
	HSC	HZN
	IDI	MEHK
	♦MOTA	NASB
	NJS	NSC
	NTR	PRE
	♦RTN	SDE
	SEI	♦SES
	SGAI	SST
	STI	TADI
	TEC	♦TII
	TIIB	TIID
	TIIF	♦TSC
2N957	CEI	122 - 85
	CRI	CSI
	CSR	ETC
	IDI	NJS
	NTR	PRE
	RTN	SCA
	SDE	SEI
	♦SES	TEC
2N960		△♦MOTA 86 - 9
	IDI	♦SES 263 - 45
	SLD	SST
	TIID	TIIF
2N961		△♦MOTA 86 - 10
	IDI	♦SES 263 - 46
	SLD	SST
	TIID	TIIF
2N962		△♦MOTA 86 - 11
	IDI	♦SES 263 - 47
	SLD	SST
	TIID	TIIF
JAN2N962	MOTA	86 - 12
		263 - 48
2N963		△♦MOTA 85 -108
	IDI	♦SES 262 - 10
	SLD	SST
2N964		△♦MOTA 86 - 13
	IDI	♦SES 263 - 49
	SLD	TIID
		TIIF
JAN2N964	MOTA	86 - 14
		263 - 50
2N964A		△♦MOTA 86 - 15
	ESI	IDI 263 - 51
		♦SES
2N965		△♦MOTA 86 - 16
	ESI	IDI 263 - 52
	♦SES	SLD
	SST	TIID
		TIIF
2N966		△♦MOTA 86 - 17
	IDI	♦SES 263 - 53
	SLD	SST
	TIID	TIIF
2N967		△♦MOTA 85 -109
	IDI	♦SES 262 - 11
	SLD	SST
2N968		△♦MOTA 86 - 18
	IDI	♦SES 263 - 66
	SLD	SST
2N969		△♦MOTA 86 - 19
	IDI	♦SES 263 - 67
	SLD	SST
2N970		△♦MOTA 86 - 20
	IDI	♦SES 263 - 73
	SLD	SST
2N971		△♦MOTA 86 - 21
	IDI	♦SES 263 - 74
	SLD	SST
2N972		△♦MOTA 86 - 22
	IDI	♦SES 263 - 68
	SLD	SST

TYPE No.	MFRS	Pg&Line
2N973		△♦MOTA 86 - 23
	IDI	♦SES 263 - 69
	SLD	SST
2N974		△♦MOTA 86 - 24
	IDI	♦SES 263 - 70
	SLD	SST
2N975		△♦MOTA 86 - 25
	IDI	♦SES 263 - 71
	SLD	SST
2N976	IDI	82 - 45
	SSI	260 - 84
2N978	CSR	102 - 31
	ETC	IDI
	♦MOTA	SCA
2N979		△♦SPR 79 - 81
	IDC	IDI 254 - 22
2N980		△♦SPR 79 - 82
	IDC	IDI 254 - 23
	SCA	SSI
2N981	CSR	137 - 95
	IDI	NASB
	NSC	NTR
	SCA	SSI
2N982		△♦SPR 80 - 4
	IDC	IDI 265 - 53
		SSI
2N983		△♦SPR 80 - 5
	IDC	IDI 265 - 54
		SSI
2N984		△♦SPR 79 -110
	IDC	IDI 264 - 16
		SSI
2N985	IDI	86 - 26
	♦MOTA	♦SES 262 -109
	SLD	SSI
		SST
2N986		SGAI 274 - 3
		STI
JAN2N986	none	274 - 4
2N987		△♦APX 81 - 79
		PHIC
JAN2N987	APX	81 - 71
2N988	IDI	127 - 95
	SCA	SSI
2N989	IDI	127 - 96
	SCA	SSI
		TSC
2N990		△♦APX 80 - 31
		PHIC
2N991	PHIC	80 - 32
2N992	PHIC	80 - 30
2N993		△♦APX 80 - 33
		PHIC
2N994	IDI	86 -101
	♦SES	234 - 19
2N995		△♦FSC 103 - 78
	CRI	CSR
	IDI	♦MOTA
	NASB	NSC
	NTR	SCA
	SGAI	SST
2N995A	CEI	103 - 79
	ITT	NSC 254 - 24
		NTR
2N996		△♦FSC 104 - 7
	CSR	IDI 257 - 74
	♦MOTA	SCA
	STI	TADI
2N997		△♦TII 137 - 32
	CSR	♦FSC
	♦RTN	SGAI
	TADI	TIIB
	TIIF	TSC
2N998		△♦FSC 279 - 7
	CSR	♦MOTA
	♦RTN	SGAI
	TADI	♦TII
		♦TSC
2N999		△♦FSC 279 - 8
	CSR	♦RTN
	SGAI	TADI
		♦TII
2N1000	CSR	92 - 68
	♦ETC	IDI 242 - 61
		NJS
2N1005	STI	113 - 70
2N1006	STI	113 - 71
2N1007	CSR	167 - 90
	♦ETC	GPD
		NJS
2N1008		CRI 89 - 58
	CSR	♦ETC
	IDI	♦MOTA
	NJS	♦SES
		UPI
2N1008A	CSR	89 - 59
	♦ETC	IDI
	♦MOTA	NJS
		♦SES
2N1008B	CSR	89 - 60
	ESI	♦ETC
	IDI	♦MOTA
	NJS	♦SES
JAN2N1008B	MOTA	86 - 60
2N1010	CSR	91 - 1
	♦ETC	NJS
2N1011	CSR	167 - 9
	♦ETC	GPD
	MOTA	NJS
	♦SES	SLD
	SST	STC
JAN2N1011	none	167 - 10
2N1012	CSR	92 - 36

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TYPE No.	MFRS	Pg&Line
2N1012		
(cont.)	♦ETC	240 - 14
	IDI	NJS
2N1015	△♦WESY	227 - 69
	CRI	CSR	238 - 19
	♦ETC	SEN
	♦SES	SPC
		♦STC
2N1015A	△♦WESY	227 - 70
	CSR	♦ETC	238 - 20
	PRE	SEI
	SEN	♦SES
	SPC	SSI
		♦STC
2N1015B	△♦WESY	227 - 71
	CSR	♦ETC	238 - 21
	PRE	SEI
	SEN	♦SES
	SPC	SSI
		♦STC
2N1015C	△♦WESY	227 - 72
	CSR	PRE	238 - 22
	SEI	SEN
	♦SES	SPC
	SSI	♦STC
2N1015D	△♦WESY	227 - 73
	CSR	PRE	238 - 23
	SEI	SEN
	♦SES	SPC
	SSI	♦STC
2N1015E	SEN	227 - 74
	♦SES	SPC	238 - 24
	SSI	♦STC
2N1015F	SEN	227 - 75
	SPC	SSI	238 - 25
2N1016	△♦WESY	227 - 76
	♦ETC	KER	238 - 26
	PRE	SEI
	SEN	♦SES
	SPC	SSI
		♦STC
2N1016A	△♦WESY	227 - 77
	CSR	♦ETC	238 - 27
	PRE	SEI
	SEN	♦SES
	SPC	SSI
		♦STC
2N1016B	△♦WESY	227 - 78
	CSR	ESI	238 - 28
	♦ETC	PRE
	SEI	SEN
	♦SES	SPC
	SSI	♦STC
JAN2N1016B	SEN	227 - 79
	SPC
2N1016C	△♦WESY	227 - 80
	SEN	♦SES	238 - 29
	SPC	SSI
		♦STC
JAN2N1016C	SEN	227 - 81
	SPC
2N1016D	△♦WESY	227 - 82
	SEN	♦SES	238 - 30
	SPC	SSI
		♦STC
JAN2N1016D	SEN	227 - 83
	SPC
2N1016E	♦SES	227 - 84
	SPC	SSI	238 - 31
		♦STC
2N1016F	SPC	227 - 85
	SSI	238 - 32
2N1017	CSR	78 - 42
	ETC	IDI
	NJS	UPI
2N1018	CSR	88 - 38
	ETC	IDI
	NJS	UPI
2N1021	CSR	169 - 65
	♦ETC	GPD
	♦MOTA	NJS
	♦SES	SLD
	SST	STC
	TIID	UTS
2N1021A	CSR	171 - 99
	♦ETC	GPD
	NJS	♦SES
	SLD	SST
		STC
JAN2N1021A	STC	171 - 100
		237 - 8
2N1022	CSR	169 - 66
	GPD	♦MOTA
	NJS	♦SES
	SLD	SST
	STC	TIID
		UTS
2N1022A	CSR	171 - 101
	♦ETC	GPD
	NJS	♦SES
	SLD	SST
		STC
JAN2N1022A	STC	171 - 102
		237 - 9
2N1024	CSR	97 - 17
	♦ETC	IDI
	NJS	♦RTN
	SCA	SLD
	SSI	SST
	TADI	♦TCY
2N1025	CSR	97 - 18
	♦ETC	IDI
	NJS	♦RTN
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N1025		
(cont.)	SLD	
	SSI	SST
	STI	TADI
		♦TCY
JAN2N1025	TCY	97 - 19
JAN2N1025M	TCY	97 - 20
2N1026	♦ETC	97 - 38
	IDI	NJS
	♦RTN	SCA
	SLD	SSI
	SST	STI
	TADI	♦TCY
JAN2N1026	TCY	97 - 39
2N1026A	♦ETC	105 - 57
		TCY
JAN2N1026M	SPR	97 - 40
		TCY
2N1027	CRI	97 - 57
	CSR	♦ETC
	IDI	NJS
	♦RTN	SCA
	SLD	SSI
	SST	STI
		♦TCY
2N1028	♦ETC	97 - 62
	IDI	NJS
	♦RTN	SCA
	SLD	SSI
	SST	STI
		♦TCY
2N1031	CSR	169 - 67
	♦ETC	GPD
	NJS	♦SES
2N1031A	CSR	169 - 68
	♦ETC	GPD
	NJS	♦SES
2N1031B	CSR	169 - 69
	♦ETC	GPD
	NJS	♦SES
2N1031C	CSR	169 - 70
	GPD	♦SES
2N1032	CSR	169 - 71
	♦ETC	GPD
	NJS	♦SES
2N1032A	CSR	169 - 72
	♦ETC	GPD
	NJS	♦SES
2N1032B	CSR	169 - 73
	GPD	♦SES
2N1032C	CSR	169 - 74
	GPD	♦SES
2N1034	△♦RTN	96-107
	CEI	CSR
	ETC	IDI
	NJS	SLD
	SSI	SST
	STI	TADI
		♦TCY
2N1035	△♦RTN	97 - 1
	CEI	CSR
	ETC	IDI
	SCA	SLD
	SSI	SST
	STI	TADI
		♦TCY
2N1036	△♦RTN	97 - 4
	CRI	CSR
	ETC	IDI
	NJS	SCA
	SLD	SSI
	SST	STI
	TADI	♦TCY
2N1038	△♦TII	165 - 46
	ESI	GPD
	♦MOTA	PRE
	SEI	♦SES
	♦STC	TIID
2N1038-1	GPD	165 - 30
	♦SES	STC
2N1038-2	GPD	165 - 31
	♦SES	STC
2N1039	△♦TII	165 - 47
	CSR	ESI
	GPD	IDC
	MISI	♦MOTA
	♦SES	♦STC
	THCF	TIID
JAN2N1039	STC	90 - 37
		TII
2N1039-1	GPD	165 - 32
	♦SES	STC
2N1039-2	GPD	165 - 33
	♦SES	STC
2N1040	△♦TII	165 - 48
	ESI	GPD
	MISI	♦MOTA
	♦SES	♦STC
	THCF	TIID
2N1040-1	GPD	165 - 34
	♦SES	STC
2N1040-2	GPD	165 - 35
	♦SES	STC
2N1041	△♦TII	165 - 49
	CSR	GPD
	IDC	MISI
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N1041		
(cont.)	♦MOTA	
	♦SES	♦STC
	THCF	TIID
JAN2N1041	STC	90 - 38
		TII
2N1041-1	GPD	165 - 36
	♦SES	STC
2N1041-2	GPD	165 - 37
	♦SES	STC
2N1042	△♦TII	165 - 50
	CSR	GPD	238 - 46
	♦MOTA	♦SES
		♦STC
JAN2N1042	STC	165 - 51
		TII
2N1042-1	GPD	165 - 38
	♦SES	STC
2N1042-2△	GPD	165 - 39
	♦SES	STC
2N1043	△♦TII	165 - 52
	GPD	♦MOTA	238 - 47
	♦SES	♦STC
JAN2N1043	STC	165 - 53
		TII
2N1043-1	GPD	165 - 40
	♦SES	STC
2N1043-2△	GPD	165 - 41
	♦SES	STC
2N1044	△♦TII	165 - 54
	GPD	♦MOTA	238 - 48
	♦SES	♦STC
JAN2N1044	STC	165 - 55
		TII
2N1044-1	GPD	165 - 42
	♦SES	STC
2N1044-2△	GPD	165 - 43
	♦SES	STC
2N1045	△♦TII	165 - 56
	GPD	♦MOTA	238 - 49
	♦SES	♦STC
JAN2N1045	STC	165 - 57
		TII
2N1045-1	GPD	165 - 44
	♦SES	STC
2N1045-2△	GPD	165 - 45
	♦SES	STC
2N1046	CSR	168-100
	♦ETC	GPD
	NJS	SES
	SSI	UPI
JAN2N1046	TII	166 - 6
2N1046A	CSR	168-101
	♦ETC	GPD
	NJS	SES
	SSI	UPI
2N1046B	CSR	168-102
	♦ETC	GPD
	SES	SSI
		UPI
2N1047	△♦TII	207 - 62
	CRI	CSR
	♦ETC	NJS
	♦SEN	♦SES
	SPC	SSI
	♦STC	UPI
2N1047A	△♦TII	207 - 63
	♦ETC	NJS
	♦SEN	♦SES
	SPC	SSI
	♦STC	UPI
JAN2N1047A	SEN	207 - 64
	STC
2N1047B	△♦TII	207 - 65
	♦ETC	NJS
	♦SES	SPC
	SSI	♦STC
		UPI
2N1048	△♦TII	207 - 66
	CSR	♦ETC
	NJS	♦SEN
	♦SES	SPC
	SSI	♦STC
		UPI
2N1048A	△♦TII	207 - 67
	CSR	♦ETC
	NJS	♦SEN
	♦SES	SPC
	SSI	♦STC
		UPI
JAN2N1048A	SEN	207 - 68
	STC
2N1048B	△♦TII	207 - 69
	♦ETC	NJS
	♦SES	SPC
	SSI	♦STC
		UPI
2N1049	△♦TII	207 - 70
	CSR	♦ETC
	NJS	♦SEN
	♦SES	SPC
	SSI	♦STC
	STI	UPI
2N1049A	△♦TII	207 - 71
	CSR	♦ETC
	NJS	♦SEN
	♦SES	SPC
	SSI	♦STC
	STI	UPI
JAN2N1049A	SEN	207 - 72
	STC	TII
2N1049B	△♦TII	207 - 73
	CSR	♦ETC
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N1049B		
(cont.)	NJS	
	♦SES	SPC
	SSI	♦STC
		UPI
2N1050	△♦TII	207 - 74
	CRI	♦ETC
	NJS	♦SEN
	♦SES	SPC
	SSI	♦STC
	STI	UPI
2N1050A	△♦TII	207 - 75
	ESI	♦ETC
	NJS	♦SEN
	♦SES	SPC
	SSI	♦STC
	STI	UPI
JAN2N1050A	SEN	207 - 76
	STC	TII
2N1050B	△♦TII	207 - 77
	♦ETC	NJS
	♦SES	SPC
	SSI	♦STC
		UPI
2N1051	IDC	137 - 33
	SSI	STI
JAN2N1051	none	138 - 36
2N1052	△♦TEC	140 - 71
	CSR	GSE
	IDI	SCA
	SLD	SSI
	SST	STC
		♦TEC
2N1054	△♦TEC	140 - 73
	CSR	♦ETC
	GSE	IDI
	NJS	SCA
	SLD	SSI
	SST	STC
	STI	♦UNI
2N1055	△TEC	140 - 66
	CSR	GSE
	IDI	SCA
	SLD	SSI
	SST	STI
		♦UNI
2N1057	ETC	88 - 95
	NJS	♦SES
2N1058	ETC	91 - 24
		NJS
2N1059	♦ETC	92 - 99
		NJS
2N1065	STI	82 - 98
2N1066	PHIC	83 - 14
2N1067	SEN	194 - 50
	♦SES	SPC	239 - 9
	SSI	♦STC
2N1068	SEN	198 - 80
	♦SES	SPC	239 - 11
	SSI	♦STC
2N1069	CSR	211 - 44
	♦ETC	GIC	238 - 83
	IDI	NJS
	PPC	SDE
	SEN	♦SES
	SLD	SPC
	SSI	SST
		♦STC
2N1070	CSR	211 - 45
	♦ETC	GIC	238 - 84
	IDI	NJS
	PPC	SDE
	SEN	♦SES
	SLD	SPC
	SSI	SST
		♦STC
2N1072	STI	201 - 30
		234 - 85
JAN2N1072	none	201 - 31
		234 - 86
2N1073	♦DEL	168 - 24
	♦ETC	GPD
	♦MOTA	SES
2N1073A	♦DEL	168 - 25
	♦ETC	GPD
	♦MOTA	SES
2N1073B	♦DEL	168 - 26
	GPD	♦MOTA
		SES
2N1078	GPD	165 - 94
		STC
2N1079	△TEC	212 - 48
	♦ETC	SSI
		STC
2N1080	△TEC	212 - 49
	♦ETC	SSI
		STC
2N1084	CSR	178 - 29
	SCA	SLD
	SSI	SST
		♦TEC
2N1085	IDI	200 - 16
	SCA	SDE
	SSI	TEC
2N1086	CSR	91 - 47
	ETC	NJS
		♦SES
2N1086A	ETC	91 - 48
	NJS	♦SES

TYPE No.	MFRS	Pg&Line
2N1087	CSR	91 - 49
	ETC	NJS
		♦SES
2N1090	CSR	91-106
	ETC	NJS	242 - 60
2N1091	CSR	91-108
	ETC	NJS	244 - 33
2N1092	CSR	190 - 2
	♦ETC	IDI	239 - 10
	NJS	SSI
2N1093	CSR	85 - 22
	ETC	IDI
	NJS
JAN2N1094	none	86 - 34
2N1095	ETC	137 - 50
	NJS
2N1096	ETC	137 - 51
	NJS
2N1097	CSR	83 - 72
	♦ETC	IDI
	NJS	♦SES
		UPI
2N1098	CSR	83 - 73
	♦ETC	IDI
	NJS	♦SES
		UPI
2N1099	△♦DEL	169 - 75
	CSR	GPD	238 - 7
	♦MOTA	NJS
	SES	SLD
	SST	STC
2N1100	CRI	169 - 76
	CSR	GPD	238 - 8
	♦MOTA	NASB
	NJS	PHIC
	PRE	SEI
	SES	SLD
	SST	STC
		UTS
2N1101	CSR	92-100
	ETC	NJS
2N1102	CSR	92-101
	♦ETC	NJS
2N1104	SCA	113 - 34
		246 - 45
2N1107	CSR	78 - 78
	ETC	NJS
2N1108	CSR	78 - 72
	ETC	NJS
2N1109	CSR	78 - 73
	ETC	NJS
2N1110	CSR	78 - 74
	ETC	NJS
2N1111	CSR	78 - 75
	ETC	NJS
2N1111A	ETC	78 - 76
	NJS
2N1111B	ETC	78 - 77
	NJS
2N1114	CSR	92 - 69
	ETC	IDI
	NJS
2N1115	ETC	85 - 23
	NJS
2N1116	△♦TEC	140 - 77
	CRI	CSR
	ETC	GSE
	IDI	NJS
	SCA	♦SES
	SLD	SPC
	SSI	SST
	STC	STI
		♦UNI
2N1117	△♦TEC	140 - 74
	CSR	ETC
	GSE	IDI
	NJS	SCA
	♦SES	SLD
	SPC	SSI
	SST	♦STC
	STI	TADI
		♦UNI
2N1118	CSR	95 - 33
	IDC	IDI
	RTN	SCA
	SLD	♦SPR
	SSI	SST
	TADI	TCY
JAN2N1118	TCY	95 - 13
2N1118A	CEI	95 - 27
	CSR	ESI
	IDC	IDI
	♦RTN	SCA
	SLD	♦SPR
	SSI	SST
	TADI	♦TCY
2N1119	CRI	95 - 30
	CSR	IDC	244 - 76
	IDI	RTN
	SCA	SLD
	♦SPR	SSI
	SST	♦TCY
JAN2N1119	TCY	95 - 6
		242 - 63
2N1120	♦ETC	167 - 11
	GPD	MOTA
	NJS	♦SES
JAN2N1120	MOTA	169 - 77
2N1121	ETC	91 - 50
	NJS
2N1122	IDC	78 - 58
	♦SPR	SSI	249 - 2
2N1122A	IDC	78 - 59
	♦SPR	SSI	249 - 3

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TYPE No.	MFRS	Pg&Line
2N1123	SSI	90- 61
	STI	
2N1124	CSR	89- 65
ESI	♦ETC	
	NJS	
2N1125	CSR	89- 71
♦ETC	NJS	
2N1128	CSR	84- 45
♦ETC	NJS	
2N1129	CSR	84- 34
♦ETC	NJS	
2N1130	CSR	84- 35
♦ETC	NJS	
2N1131	CEI	108- 64
CSI	CSR	
ETC	ETIF	
FERB	IDI	
MEHK	MISI	
♦MOTA	♦MULB	
NASB	NJS	
NTR	PHIC	
♦PHIN	PRE	
♦RTN	SCA	
SDE	♦SES	
SLD	SOD	
SST	STI	
TADI	THCF	
♦TII	TIIB	
TIID	TIIF	
JAN2N1131	♦MOTA	108- 65
RTN	TII	
2N1131/46	SCA	106- 42
2N1131A	CRI	108- 66
CSR	IDI	263- 40
♦MOTA	PRE	
SCA	SEI	
SES	SLD	
SST	STI	
	TADI	
2N1132	△♦FSC	108- 67
CRI	CSI	
CSR	ELMA	
ESI	♦ETC	
ETIF	FERB	
IDI	ITT	
MEHK	MISI	
♦MOTA	♦MULB	
NASB	NJS	
NSC	♦NTLB	
NTR	PHIC	
♦PHIN	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	SOD	
SST	STI	
TADI	THCF	
♦TII	TIIB	
TIID	TIIF	
JAN2N1132	♦MOTA	108- 68
RTN	TII	
2N1132/46	SCA	106- 43
		253- 92
2N1132A46	SCA	106- 44
2N1132A	CSR	108- 69
FSC	IDI	263- 41
ITT	♦MOTA	
NJS	PRE	
♦RTN	SCA	
SEI	SLD	
SST	STI	
	TADI	
2N1132B46	SCA	106- 45
2N1132B	CSR	108- 70
IDI	NJS	252- 44
PRE	♦RTN	
SCA	SEI	
SLD	SSI	
SST	STI	
	TADI	
2N1136	CSR	168- 33
♦ETC	GPD	
HZN	NJS	
♦SES	SST	
STC	UTS	
2N1136A	CSR	168- 34
♦ETC	GPD	
HZN	KER	
NJS	♦SES	
STC	UTS	
2N1136B	CSR	168- 35
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NJS	♦SES	
STC	UTS	
2N1137	CSR	168- 36
♦ETC	GPD	
HZN	IDC	
NJS	♦SES	
SST	STC	
2N1137A	CSR	168- 37
♦ETC	GPD	
HZN	IDC	
NJS	♦SES	
	STC	
2N1137B	CSR	168- 38
GPD	HZN	
NJS	♦SES	
	STC	
2N1138	CSR	166- 73
♦ETC	GPD	
HZN	NJS	
♦SES	STC	
2N1138A	CSR	166- 74
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N1138A		
(cont.)	♦ETC	
GPD	HZN	
NJS	♦SES	
	STC	
2N1138B	CSR	166- 75
GPD	HZN	
NJS	♦SES	
	STC	
2N1139	△♦TEC	138- 54
CSR	♦ETC	
	NJS	
2N1140	CSR	137- 65
♦ETC	NJS	
2N1141	IDI	90- 31
♦MOTA	SES	
SLD	TIID	
2N1141A	IDI	90- 28
MOTA	SLD	
2N1142	IDI	90- 29
♦MOTA	SES	
SLD	SST	
	TIID	
JAN2N1142	♦MOTA	90- 24
2N1142A	IDI	90- 25
MOTA	SLD	
	SST	
2N1143	IDI	90- 27
♦MOTA	SES	
SLD	SST	
	TIID	
2N1143A	ESI	90- 26
IDI	MOTA	
SLD	SST	
2N1144	CSR	83- 74
ETC	NJS	
2N1145	CSR	83- 75
ETC	NJS	
2N1146	CRI	169- 78
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GPD	MOTA	
NJS	♦SES	
	STC	
2N1146A	CSR	169- 79
♦ETC	GPD	
MOTA	NJS	
♦SES	STC	
2N1146B	CSR	169- 80
♦ETC	GPD	
MOTA	NJS	
♦SES	STC	
2N1146C	CSR	169- 81
♦ETC	GPD	
MOTA	NJS	
♦SES	STC	
2N1147	CSR	169- 82
♦ETC	GPD	
MOTA	NJS	
♦SES	STC	
2N1147A	CSR	169- 83
♦ETC	GPD	
MOTA	NJS	
♦SES	STC	
2N1147B	CSR	169- 84
♦ETC	GPD	
MOTA	NJS	
♦SES	STC	
2N1147C	CSR	169- 85
♦ETC	GPD	
MOTA	♦SES	
	STC	
2N1149	△♦TII	114- 40
CSR	♦ETC	
NJS	SSI	
	STI	
2N1150	△♦TII	114- 42
CSR	♦ETC	
NJS	SSI	
	STI	
2N1151	△♦TII	114- 43
CSR	♦ETC	
NJS	SSI	
	STI	
2N1152	△♦TII	114- 44
CSR	♦ETC	
NJS	SSI	
	STI	
2N1153	△♦TII	114- 45
CSR	♦ETC	
NJS	SSI	
	STI	
2N1154	△♦TII	143-102
CSR	♦ETC	
NJS	SSI	
	STI	
2N1155	△♦TII	143-103
CSR	♦ETC	
NJS	SSI	
	STI	
2N1156	△♦TII	143-104
CSR	♦ETC	
NJS	SSI	
	STI	
2N1157	CSR	172- 92
GPD	NJS	
	SST	
2N1157A	CSR	172- 93
GPD	NJS	
	SST	
JAN2N1157A	none	172- 94
2N1158	CSR	79- 56
♦ETC	NJS	
2N1158A	CSR	80- 52
♦ETC	NJS	

TYPE No.	MFRS	Pg&Line
2N1159	△♦DEL	168- 39
CSR	♦ETC	237-108
GPD	NJS	
♦SES	SLD	
	SST	
2N1160	△♦DEL	168- 40
CSR	♦ETC	237-109
GPD	NJS	
♦SES	SLD	
	SST	
2N1162	△♦MOTA	169- 86
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
	STC	
2N1162A	△♦MOTA	169- 87
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N1163	△♦MOTA	169- 88
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N1163A	△♦MOTA	169- 89
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N1164	△♦MOTA	169- 90
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
	STC	
2N1164A	△♦MOTA	169- 91
CSR	♦ETC	
GPD	NJS	
PRE	SEI	
♦SES	STC	
2N1165	△♦MOTA	169- 92
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
JAN2N1165	♦MOTA	169- 93
	STC	
2N1165A	△♦MOTA	169- 94
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N1166	△♦MOTA	169- 95
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
	STC	
2N1166A	△♦MOTA	169- 96
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N1167	△♦MOTA	169- 97
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N1167A	△♦MOTA	169- 98
CSR	♦ETC	
GPD	NJS	
♦SES	STC	
2N1168	△♦DEL	167- 12
CSR	♦ETC	
GPD	NJS	
♦SES	SLD	
SST	STC	
2N1169	CSR	268- 11
PRE	SEI	
SST	STI	
2N1170	CSR	268- 12
PRE	SEI	
	STI	
2N1171	CSR	86- 67
♦ETC	IDI	
NJS	UPI	
2N1172	GPD	164- 60
	STC	235- 37
JAN2N1173	none	93- 14
		235- 6
JAN2N1174	none	88- 98
		235- 7
2N1175	△♦GESY	88- 15
CRI	CSR	
♦ETC	IDI	
♦MOTA	NJS	
♦SES	STI	
	UPI	
2N1175A	CSR	88- 16
♦ETC	IDI	
NJS	♦SES	
	STI	
2N1176	CSR	89- 61
♦ETC	IDI	
	NJS	
2N1176A	CSR	89- 62
♦ETC	IDI	
	NJS	
2N1176B	CSR	89- 63
♦ETC	IDI	
	NJS	
2N1182	GPD	169- 99
	UTS	
2N1183	GPD	164- 72
PRE	SEI	
	STC	
JAN2N1183	STC	164- 73
2N1183A	GPD	164- 74
	STC	
JAN2N1183A	STC	164- 75
2N1183B	GPD	164- 76
	STC	

TYPE No.	MFRS	Pg&Line
JAN2N1183B	STC	164- 77
2N1184	GPD	164- 78
	STC	
JAN2N1184	RCA	164- 79
	STC	
2N1184A	GPD	164- 80
	STC	
JAN2N1184A	RCA	164- 81
	STC	
2N1184B	GPD	164- 82
	STC	
JAN2N1184B	STC	164- 83
2N1185	△♦MOTA	87- 89
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
2N1186	△♦MOTA	87- 22
CSR	IDI	
♦SES	STI	
2N1187	△♦MOTA	87- 45
CSR	IDI	
♦SES	STI	
2N1188	△♦MOTA	87- 67
CSR	IDI	
♦SES	STI	
2N1189	△♦MOTA	88- 3
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
2N1190	△♦MOTA	88- 18
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
2N1191	△♦MOTA	86-102
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
2N1192	△♦MOTA	86-103
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
2N1193	△♦MOTA	86-104
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
2N1194	△♦MOTA	86-105
CSR	♦ETC	
IDI	NJS	
♦SES	STI	
2N1195	ESI	88- 89
♦MOTA	SLD	
	SST	
JAN2N1195	♦MOTA	89- 36
2N1196	IDI	102- 33
SCA	SSI	
	STI	
2N1197	IDI	102- 34
SCA	SSI	
	STI	
JAN2N1197	none	102- 35
2N1198	CSR	91- 53
ETC	NJS	
2N1199	♦ETC	114- 64
	NJS	256- 45
2N1202	GPD	166- 37
SST	♦STC	
2N1203	GPD	166- 38
SST	♦STC	
2N1204	♦MOTA	88- 40
		263- 81
2N1204A	♦MOTA	88- 39
		260- 61
2N1205	CEI	114- 47
ETC	NJS	
STI	TEC	
2N1206	CSR	191- 64
♦ETC	NJS	
	STI	
2N1207	CSR	191- 65
♦ETC	NJS	
	STI	
2N1208	△♦TEC	214- 91
CRI	CSR	
♦ETC	GSE	
IDI	MISI	
NJS	PPC	
SCA	SDE	
SEN	♦SES	
SLD	SPC	
SST	♦STC	
THCF	UNI	
2N1209	△♦TEC	214- 92
CRI	CSR	
ETC	GSE	
IDI	MISI	
PPC	SCA	
SDE	SEN	
♦SES	SLD	
SPC	SST	
♦STC	THCF	
	UNI	
2N1210	△♦TEC	212- 75
CSR	♦ETC	
NJS	SEN	
♦SES	SPC	
	♦STC	
2N1211	△♦TEC	212- 76
CSR	♦ETC	
NJS	SEN	
♦SES	SPC	
	♦STC	
2N1212	△♦TEC	214- 93
CRI	CSR	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N1212		
(cont.)	♦ETC	
GSE	IDI	
NJS	PPC	
SDE	SEN	
♦SES	SLD	
SPC	SST	
♦STC	UNI	
2N1217	CSR	91- 58
ETC	NJS	
2N1218	CSR	173- 17
GPD	♦STC	
2N1219	CSR	97- 58
ETC	HZN	
IDI	NJS	
RTN	SCA	
SLD	SSI	
SST	♦TCY	
2N1220	CSR	97- 41
ETC	HZN	
IDI	NJS	
RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1221	CSR	97- 59
ETC	HZN	
IDI	NJS	
RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1222	CSR	97- 42
ETC	HZN	
IDI	NJS	
RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1223	CSR	97- 43
ETC	HZN	
IDI	NJS	
RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1224	♦APX	82-102
PHIC	STI	
	WAB	
JAN2N1224	APX	82-103
2N1225	♦APX	83- 9
♦NPC	PHIC	
STI	WAB	
JAN2N1225	APX	83- 2
2N1226	♦APX	82-104
PHIC	STI	
	WAB	
2N1227	CSR	168- 14
ETC	GPD	
NJS	♦SES	
	STC	
2N1228	CSR	105- 46
♦ETC	HZN	
IDI	NJS	
♦RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1229	CSR	105- 47
♦ETC	HZN	
IDI	NJS	
♦RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1230	CSR	105- 48
♦ETC	HZN	
IDI	NJS	
♦RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1231	CSR	105- 49
♦ETC	HZN	
IDI	NJS	
♦RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1232	CEI	105- 25
CSR	♦ETC	
HZN	IDI	
NJS	PRE	
SCA	SEI	
SLD	SSI	
SST	STI	
	♦TCY	
2N1233	CSR	105- 26
ESI	♦ETC	
HZN	IDI	
NJS	♦RTN	
SCA	SLD	
SSI	SST	
STI	♦TCY	
2N1234	ESI	105- 19
♦ETC	HZN	
NJS	PRE	
SEI	SLD	
SST	STI	
	♦TCY	
JAN2N1234	TCY	105- 18
2N1235	SSI	214- 94
	TEC	

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TYPE No.	MFRS	Pg&Line
2N1240	HZN	175 - 84
	STI	
2N1241	HZN	175 - 85
	STI	
2N1242	HZN	175 - 86
	STI	
2N1243	HZN	175 - 87
	STI	
2N1244	HZN	175 - 88
	STI	
2N1247	△♦TEC	112 - 10
CSR	ETC	
NJS	SLD	
SSI	SST	
2N1248	CSR	112 - 8
ETC	NJS	
SES	SLD	
SSI	SST	
	♦TEC	
2N1249	△TEC	112 - 9
CSR	ETC	
NJS	SSI	
2N1250	△♦TEC	214 - 95
CSR	ETC	
NJS	SEN	
♦SES	SPC	
SSI	♦STC	
2N1251	CSR	92 - 19
♦ETC	NJS	
2N1252	CSR	141 - 42
ETC	IDI	
NJS	SCA	
SDE	♦SES	
SOD	SSI	
STI	♦TEC	
2N1253	CSR	141 - 72
ETC	IDI	
NJS	SCA	
SDE	♦SES	
SOD	SSI	
STI	♦TEC	
2N1254	CSR	98 - 77
IDI	NJS	246 - 43
SCA	SLD	
SSI	SST	
STI	TEC	
2N1255	CSR	98 - 80
IDI	NJS	250 - 86
SCA	SLD	
SSI	SST	
STI	TEC	
2N1256	CEI	98 - 78
CSR	IDI	246 - 44
NJS	SCA	
SLD	SSI	
SST	STI	
	TEC	
2N1257	CSR	98 - 81
IDI	NJS	250 - 87
SCA	SLD	
SSI	SST	
STI	TEC	
2N1258	CSR	98 - 82
IDI	NJS	250 - 88
SCA	SLD	
SSI	SST	
STI	TEC	
2N1259	CSR	98 - 79
IDI	NJS	249 - 11
SCA	SLD	
SSI	SST	
STI	TEC	
2N1260	CSR	214 - 69
SSI	TEC	
2N1261	CSR	166 - 39
GPD	SST	
	♦STC	
2N1262	CSR	166 - 40
GPD	SST	
	♦STC	
2N1263	CSR	166 - 41
GPD	SST	
	♦STC	
2N1265	CSR	81-101
♦ETC	IDI	
NJS	UPI	
2N1265/5	ETC	79 - 12
	IDI	
2N1266	CSR	80 - 91
♦ETC	NJS	
2N1267	CSR	112 - 37
♦ETC	NJS	
2N1268	♦ETC	112 - 41
	NJS	
2N1269	♦ETC	113 - 72
	NJS	
2N1270	♦ETC	112-102
	NJS	
2N1271	♦ETC	113 - 53
	NJS	
2N1272	♦ETC	115-108
	NJS	
2N1273	△♦TII	88 - 99
CSR	♦ETC	
IDI	MOTA	
NJS	♦SES	
SLD	SST	
	TIID	
2N1274	△♦TII	88-100
CRI	CSR	
♦ETC	IDI	
MOTA	NJS	
♦SES	SLD	
SST	TIID	

cont.next col.

TYPE No.	MFRS	Pg&Line
2N1275	CEI	96-105
♦ETC	NJS	
SLD	SST	
	TCY	
2N1276	CEI	114 - 52
♦ETC	NJS	
SES	TEC	
	TII	
2N1277	CEI	114 - 53
♦ETC	NJS	
SES	TEC	
	TII	
2N1278	CEI	114 - 54
♦ETC	NJS	
SES	TEC	
	TII	
2N1279	♦ETC	114 - 55
NJS	TEC	
	TII	
2N1280	CSR	86-106
ETC	IDI	
NJS	UPI	
2N1281	CSR	86-107
ETC	IDI	
	NJS	
2N1282	CSR	86-108
ETC	IDI	
	NJS	
2N1284	CSR	85 - 42
ETC	IDI	242 - 11
NJS	UPI	
2N1291	CSR	165 - 95
♦ETC	GPD	
NJS	♦STC	
2N1292	CSR	173 - 18
GPD	NJS	
PRE	SEI	
	♦STC	
2N1293	CSR	165 - 96
♦ETC	GPD	
NJS	♦STC	
2N1294	CSR	173 - 19
GPD	NJS	
PRE	SEI	
	♦STC	
2N1295	CSR	165 - 97
♦ETC	GPD	
NJS	♦STC	
2N1296	CSR	173 - 20
GPD	NJS	
PRE	SEI	
	♦STC	
2N1297	CSR	165 - 98
♦ETC	GPD	
NJS	♦STC	
2N1298	CSR	173 - 21
GPD	NJS	
PRE	SEI	
	♦STC	
2N1299	CSR	92 - 54
ETC	IDI	
	NJS	
2N1300	IDI	85 - 84
	SES	249 - 67
2N1301	CRI	85 - 88
CSR	ESI	248-105
NJS	SES	
2N1302	△♦TII	92 - 37
CEI	CRI	
CSR	ESI	
♦ETC	IDC	
IDI	♦MULB	
NASB	NJS	
♦NTLB	PHIC	
PHIN	PRE	
RTCF	SEI	
♦SES	SLD	
SST	STI	
UPI	UTS	
	WAB	
JAN2N1302	TII	92 - 38
2N1303	△♦TII	84-106
CEI	CRI	
CSR	ESI	
♦ETC	IDC	
IDI	♦MULB	
NASB	NJS	
♦NTLB	PHIC	
PHIN	PRE	
RTCF	SEI	
♦SES	SLD	
SST	STI	
UPI	UTS	
	WAB	
JAN2N1303	TII	84-107
2N1304	△♦TII	92 - 55
CEI	CRI	
CSR	ESI	
♦ETC	IDC	
IDI	♦MULB	
NASB	♦NTLB	
PHIC	PHIN	
PRE	RTCF	
SEI	♦SES	
SLD	SST	
STI	UPI	
UTS	WAB	
JAN2N1304	TII	92 - 56
2N1305	△♦TII	85 - 24
CEI	CRI	
CSR	ESI	
♦ETC	IDC	
IDI	♦MULB	

TYPE No.	MFRS	Pg&Line
2N1305		
(cont.)	NASB	
NJS	♦NPC	
♦NTLB	PHIC	
PHIN	PRE	
RTCF	SEI	
♦SES	SLD	
SST	STI	
THCF	UPI	
UTS	WAB	
JAN2N1305	TII	85 - 25
2N1306	△♦TII	92 - 78
CEI	CRI	
CSR	ESI	
♦ETC	IDC	
IDI	♦MULB	
NASB	♦NTLB	
PHIC	PHIN	
PRE	RTCF	
SEI	♦SES	
SLD	SST	
STI	UPI	
	UTS	
JAN2N1306	TII	92 - 79
2N1307	△♦TII	85 - 53
CEI	CRI	
CSR	ESI	
♦ETC	IDC	
IDI	MISI	
♦MULB	NASB	
NJS	♦NPC	
♦NTLB	PHIC	
PHIN	PRE	
RTCF	SEI	
♦SES	SLD	
SST	STI	
THCF	UPI	
UTS	WAB	
JAN2N1307	TII	85 - 54
2N1308	△♦TII	92 - 88
CEI	CSR	
ESI	♦ETC	
IDC	IDI	
♦MULB	NASB	
♦NTLB	PHIC	
PHIN	PRE	
RTCF	SEI	
♦SES	SLD	
SST	STI	
UPI	UTS	
JAN2N1308	TII	92 - 89
2N1309	△♦TII	85 - 71
CEI	CSR	
ESI	♦ETC	
IDC	IDI	
MISI	♦MULB	
NASB	NJS	
♦NPC	♦NTLB	
PHIC	PHIN	
PRE	RTCF	
SEI	♦SES	
SLD	SST	
STI	THCF	
UPI	UTS	
	WAB	
JAN2N1309	TII	85 - 72
2N1309A	CSR	85 - 73
	IDI	
2N1310	CSR	91 - 97
ESI	PRE	
SEI	♦SES	
JAN2N1310	none	91 - 98
2N1311	CSR	91 - 94
IDI	♦SES	
	STI	
2N1312	CSR	91 - 95
IDI	♦SES	
	STI	
2N1313	CSR	86 - 93
♦ETC	NJS	
	STI	
2N1314	ETC	168 - 41
GPD	NJS	
PHIC	STI	
2N1316	CSR	88 - 33
♦ETC	IDI	243 - 97
NJS	STI	
	UPI	
2N1317	CSR	88 - 34
♦ETC	IDI	243 - 91
NJS	STI	
	UPI	
2N1318	CSR	88 - 35
♦ETC	IDI	
NJS	STI	
	UPI	
2N1319	CSR	82 - 83
IDI	NJS	
	STI	
2N1320	GPD	165 - 99
	STC	
2N1321	GPD	173 - 22
	♦STC	
2N1322	GPD	165-100
	STC	
2N1323	GPD	173 - 23
	♦STC	
2N1324	GPD	165-101
	STC	
2N1325	GPD	173 - 24
	♦STC	
2N1326	GPD	165-102
	♦STC	

TYPE No.	MFRS	Pg&Line
2N1327	GPD	173 - 25
	♦STC	
2N1328	GPD	165-103
	STC	
2N1329	GPD	173 - 26
	♦STC	
2N1330	GPD	173 - 27
	♦STC	
2N1331	GPD	165-104
	STC	
2N1332	GPD	173 - 28
	♦STC	
2N1333	GPD	165-105
	STC	
2N1334	GPD	173 - 29
	♦STC	
2N1335	IDI	145 - 91
SCA	SSI	
2N1336	IDI	145 - 92
SCA	SSI	
	STI	
2N1337	IDI	145 - 93
SCA	SSI	
	STI	
2N1338	IDI	145 - 94
SCA	SSI	
	STI	
2N1339	IDI	145 - 95
SCA	SSI	
	STI	
2N1340	IDI	145 - 96
SCA	SSI	262 - 28
	STI	
2N1341	IDI	145 - 97
SCA	SSI	
	STI	
2N1342	IDI	145 - 98
SCA	SSI	
	STI	
2N1343	CSR	85 - 33
♦ETC	IDI	241 - 98
NJS	STI	
	UPI	
2N1344	CSR	85 - 36
♦ETC	IDI	242 - 62
NJS	STI	
	UPI	
2N1345	CSR	85 - 55
♦ETC	IDI	243 - 93
NJS	STI	
	UPI	
2N1346	CSR	85 - 56
♦ETC	IDI	243 - 94
NJS	STI	
	UPI	
2N1347	CSR	85 - 26
♦ETC	IDI	
NJS	STI	
	UPI	
2N1348	CSR	88 - 23
♦ETC	IDI	
NJS	STI	
2N1349	CSR	88 - 36
♦ETC	IDI	
NJS	STI	
2N1350	CSR	88 - 30
♦ETC	IDI	
NJS	STI	
2N1351	CSR	88 - 31
♦ETC	IDI	
NJS	STI	
2N1352	CSR	84 - 96
ETC	IDI	
NJS	STI	
	UPI	
2N1353	CSR	88 - 4
ETC	IDI	241 - 42
NJS	STI	
	UPI	
2N1354	CSR	88 - 19
ETC	IDI	241-101
NJS	STI	
2N1355	CSR	88 - 32
ETC	IDI	242 - 84
NJS	STI	
2N1356	CSR	88 - 24
ETC	IDI	242 - 85
NJS	STI	
2N1357	CSR	88 - 37
ETC	IDI	244 - 29
NJS	STI	
2N1358	△♦DEL	169-100
CSR	GPD	238 - 41
MOTA	NJS	
SES	SLD	
SST	STC	
	UTS	
JAN2N1358	♦DEL	171-103
	♦MOTA	
2N1358A	CSR	171-104
GPD	MOTA	237 - 97
NJS	SES	
SLD	SST	
	STC	
2N1359	△♦MOTA	169-101
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
	STC	
2N1360	△♦MOTA	169-102
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
	STC	

TYPE No.	MFRS	Pg&Line
2N1362	△♦MOTA	169-103
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
	STC	
2N1363	△♦MOTA	169-104
CSR	♦ETC	
GPD	NJS	
PRE	SEI	
♦SES	SST	
	STC	
2N1364	△♦MOTA	169-105
CSR	GPD	
	♦SES	
2N1365	△♦MOTA	169-106
CSR	GPD	
	♦SES	
2N1366	CSR	91 - 85
ETC	IDI	
	NJS	
2N1367	CSR	91 - 75
ETC	IDI	
	NJS	
2N1370	△♦TII	88-101
CSR	♦ETC	
GESY	IDI	
MOTA	NJS	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1371	△♦TII	88-102
CSR	♦ETC	
GESY	IDI	
MOTA	NJS	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1372	△♦TII	88-103
CRI	CSR	
♦ETC	GESY	
IDI	MOTA	
NJS	PRE	
SEI	♦SES	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1373	△♦TII	88-104
CSR	♦ETC	
GESY	IDI	
NJS	PRE	
SEI	♦SES	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1374	△♦TII	88-105
CRI	CSR	
♦ETC	GESY	
IDI	MOTA	
NJS	PRE	
SEI	♦SES	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1375	△♦TII	88-106
CSR	♦ETC	
GESY	IDI	
MOTA	NJS	
PRE	SEI	
♦SES	SLD	
SST	STI	
TIID	UPI	
UTS	WAB	
2N1376	△♦TII	88-107
CRI	CSR	
♦ETC	GESY	
IDI	MOTA	
NJS	PRE	
SEI	♦SES	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1377	△♦TII	88-108
CRI	CSR	
♦ETC	GESY	
IDI	MOTA	
NJS	PRE	
SEI	♦SES	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1378	△♦TII	88-109
CSR	♦ETC	
GESY	MOTA	
NJS	PRE	
SEI	♦SES	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1379	△♦TII	88-110
CSR	♦ETC	
GESY	IDI	
MOTA	NJS	
PRE	SEI	
♦SES	SLD	
SST	STI	

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2N1379		
(cont.)	TIID	
UPI	UTS	
	WAB	
2N1380	△♦TII	89- 1
CSR	♦ETC	
GESY	IDI	
MOTA	NJS	
PRE	SEI	
♦SES	SLD	
SST	STI	
TIID	UPI	
UTS	WAB	
2N1381	△♦TII	89- 2
CRI	CSR	
♦ETC	GESY	
IDI	MOTA	
NJS	PRE	
SEI	♦SES	
SLD	SST	
STI	TIID	
UPI	UTS	
	WAB	
2N1382	△TII	89- 3
CRI	CSR	
ESI	♦ETC	
IDI	MOTA	
NJS	♦SES	
STI	UPI	
UTS	WAB	
2N1383	△TII	89- 4
♦ETC	IDI	
MOTA	NJS	
♦SES	STI	
UPI	UTS	
	WAB	
2N1385	SLD	90- 67
2N1386	CEI	124- 1
CSR	♦ETC	234-103
IDI	NJS	
2N1387	CSR	124- 2
♦ETC	IDI	234-104
	NJS	
2N1388	CSR	124- 99
ETC	IDI	
	NJS	
2N1389	CSR	124- 42
ETC	IDI	
NJS	SES	
2N1390	CSR	124- 34
ETC	IDI	
	NJS	
2N1391	CSR	92- 39
♦ETC	IDI	
	NJS	
2N1392	STI	274- 5
2N1393	STI	274- 6
2N1394	STI	274- 7
2N1395	♦APX	82-105
CSR	PHIC	
	WAB	
2N1396	♦APX	83- 10
CSR	PHIC	
	WAB	
2N1397	CSR	83- 15
	PHIC	
2N1404	△TII	85- 13
CSR	♦ETC	
IDI	NJS	
♦SES	SLD	
SST	UPI	
2N1408	CSR	83- 94
♦ETC	IDI	
♦MOTA	NJS	
	♦SES	
2N1409	CEI	140- 96
CSR	♦ETC	
IDI	NJS	
PRE	SCA	
SEI	SSI	
2N1409A	CSR	147- 17
♦ETC	IDI	
NJS	SCA	
	SSI	
2N1410	CEI	140- 97
CSR	♦ETC	
IDI	NJS	
SCA	SSI	
2N1410A	♦ETC	147- 18
IDI	NJS	260- 64
SCA	SSI	
2N1411	CSR	252- 99
IDC	NJS	
SCA	SPR	
JAN2N1411	SPR	78- 95
2N1412	CSR	169-107
GPD	MOTA	
NJS	PRE	
SEI	SES	
SLD	SST	
STC	UTS	
JAN2N1412	STC	168-103
2N1412A	CSR	168-104
GPD	STC	
JAN2N1412A	STC	168-105
2N1413	△♦GESY	88- 2
CSR	♦ETC	
IDI	♦MOTA	
NJS	♦SES	
	SST	
2N1414	△♦GESY	88- 6
CSR	♦ETC	
IDC	IDI	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N1414		
(cont.)	♦MOTA	
NJS	♦SES	
SST	UPI	
2N1415	△♦GESY	88- 10
CSR	♦ETC	
IDI	♦MOTA	
NJS	♦SES	
SST	UPI	
2N1416	CSR	89- 16
♦ETC	NJS	
2N1417	△♦TEC	113- 73
CEI	CSR	
ETC	NJS	
	SES	
2N1418	△♦TEC	113- 74
CEI	CSR	
ETC	NJS	
	SES	
2N1420	CEI	140- 98
CRI	CSI	
CSR	♦ETC	
ETIF	HSC	
IDI	MEHK	
MISI	♦MOTA	
NASB	NJS	
♦NSC	NTR	
PHIN	RTN	
SCA	SDE	
♦SES	SLD	
SST	TADI	
♦TEC	THCF	
♦TII	TIID	
TIIF	♦TSC	
	UPI	
2N1420A	CSR	145- 55
IDI	SCA	
	TADI	
2N1427	IDC	78- 62
SCA	♦SPR	252- 35
SSI	STI	
2N1429	CSR	94- 39
IDC	SLD	
SSI	SST	
STI	TCY	
2N1430	GPD	166-101
2N1431	ETC	92-102
	NJS	
2N1437	GPD	165-106
	♦STC	
2N1438	GPD	165-107
	♦STC	
2N1439	CSR	105- 27
IDI	RTN	
SCA	SLD	
SSI	SST	
STI	♦TCY	
2N1440	CSR	105- 28
♦ETC	IDI	
NJS	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1441	CSR	105- 29
♦ETC	IDI	
NJS	RTN	
SCA	SLD	
SSI	SST	
STI	♦TCY	
2N1442	CSR	105- 30
♦ETC	IDI	
NJS	RTN	
SCA	SLD	
SSI	SST	
STI	♦TCY	
2N1443	CSR	105- 31
IDI	NJS	
RTN	SCA	
SLD	SSI	
SST	STI	
	♦TCY	
2N1445	CSR	144- 53
GSE	SLD	
SSI	SST	
	TEC	
2N1446	CSR	87- 96
♦ETC	IDI	
NJS	STI	
2N1447	CSR	87-108
♦ETC	IDI	
	STI	
2N1448	CSR	88- 11
♦ETC	IDI	
NJS	STI	
2N1449	CSR	88- 25
♦ETC	IDI	
	STI	
2N1450	CSR	82- 66
ETC	NJS	234- 87
JAN2N1450M	none	82- 67
		234- 88
2N1451	CSR	87- 81
ETC	IDI	
	NJS	
2N1452	CSR	87-100
ETC	IDI	
	NJS	
2N1465	CSR	165-108
GPD	♦STC	
2N1466	CSR	165-109
GPD	♦STC	
2N1469	CSR	97- 44
♦ETC	IDI	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N1469		
(cont.)	NJS	
RTN	SCA	
SLD	SST	
	♦TCY	
JAN2N1469	SPR	97- 45
	TCY	
JAN2N1469M	SPR	97- 46
	TCY	
2N1470	CEI	211- 46
CSR	IDI	
2N1471	CSR	78- 19
♦ETC	IDI	
	NJS	
2N1472	CSR	114- 65
♦ETC	NJS	256- 46
2N1473	CSR	93- 19
♦ETC	IDI	
	NJS	
2N1474	ETC	97- 21
IDI	NJS	
SCA	SLD	
SST	♦TCY	
2N1474A	CSR	97- 47
ETC	IDI	
NJS	SCA	
SLD	SST	
	♦TCY	
2N1475	CSR	97- 22
ETC	IDI	
NJS	SCA	
SLD	SST	
STI	♦TCY	
2N1476	CSR	97- 23
IDI	NJS	
SCA	SLD	
SST	♦TCY	
2N1477	CSR	94- 6
IDI	NJS	
SCA	SLD	
SST	♦TCY	
2N1478	CSR	89- 30
♦ETC	NJS	
2N1479	AMC	192- 54
CSR	ETC	
IDI	LUCB	
♦SES	SLD	
SPC	SSI	
SST	♦STC	
	TEC	
JAN2N1479	RCA	192- 55
SPC	STC	
2N1480	AMC	192- 56
CSR	ETC	
IDI	LUCB	
NJS	♦SES	
SLD	SPC	
SSI	SST	
♦STC	STI	
TEC	UPI	
JAN2N1480	RCA	192- 57
SPC	STC	
2N1481	AMC	192- 58
CSR	ESI	
ETC	IDC	
IDI	LUCB	
NJS	♦SES	
SLD	SPC	
SSI	SST	
♦STC	STI	
TEC	UPI	
JAN2N1481	RCA	192- 59
SPC	STC	
2N1482	AMC	192- 60
CSR	ETC	
IDC	IDI	
LUCB	NJS	
♦SES	SLD	
SPC	SSI	
SST	♦STC	
STI	TEC	
	UPI	
JAN2N1482	RCA	192- 61
SPC	STC	
2N1483	AMC	203- 42
CSR	ESI	
IDC	PRE	
SEI	SEN	
♦SES	SPC	
♦STC	STI	
	UPI	
JAN2N1483	RCA	203- 43
SEN	SPC	
	STC	
2N1484	AMC	203- 44
ESI	IDC	
KER	PRE	
SEI	SEN	
♦SES	SPC	
♦STC	STI	
	UPI	
JAN2N1484	RCA	203- 45
SEN	SPC	
	STC	
2N1485	AMC	203- 46
CSR	ESI	
IDC	PPC	
PRE	SEI	
SEN	♦SES	
SPC	♦STC	
STI	UPI	
JAN2N1485	RCA	203- 47
SEN	SPC	
	STC	

TYPE No.	MFRS	Pg&Line
2N1486	AMC	203- 48
CSR	ESI	
IDC	KER	
PPC	SEN	
♦SES	SPC	
♦STC	STI	
	UPI	
JAN2N1486	RCA	203- 49
SEN	SPC	
	STC	
2N1487	AMC	214- 28
CSR	♦ETC	
GIC	NJS	
PPC	SCA	
SEN	♦SES	
SLD	♦SOD	
SPC	SSI	
SST	♦STC	
STI	TEC	
	UPI	
JAN2N1487	RCA	214- 8
SEN	SPC	
	STC	
2N1488	AMC	214- 29
CSR	♦ETC	
GIC	NJS	
PPC	SCA	
SEN	♦SES	
SLD	♦SOD	
SPC	SSI	
SST	♦STC	
STI	TEC	
	UPI	
JAN2N1488	RCA	214- 9
SEN	SPC	
	STC	
2N1489	AMC	214- 30
CSR	♦ETC	
GIC	NJS	
PPC	SCA	
SEN	♦SES	
SLD	♦SOD	
SPC	SSI	
SST	♦STC	
STI	TEC	
JAN2N1489	RCA	214- 10
SEN	SPC	
	STC	
2N1490	AMC	214- 31
CRI	CSR	
♦ETC	GIC	
IDC	NJS	
PPC	SCA	
SEN	♦SES	
SLD	♦SOD	
SPC	SSI	
SST	♦STC	
TEC	UPI	
JAN2N1490	RCA	214- 11
SEN	SPC	
	STC	
2N1491	△♦RCA	137- 34
CSR	IDI	
SCA	SSI	
2N1492	△♦RCA	137- 35
CEI	IDI	
SCA	SSI	
2N1493	△♦RCA	137- 36
IDI	PRE	
SCA	SEI	
SSI	TADI	
JAN2N1493	RCA	138-100
2N1494	♦MOTA	90- 40
		263- 82
2N1494A	♦MOTA	90- 39
2N1495	CSR	89- 35
	♦MOTA	257- 22
2N1496	♦MOTA	90- 52
		257- 23
2N1499	CSR	78- 55
♦ETC	MOTA	234- 51
NJS	SCA	
	SES	
2N1499A	♦ETC	79- 83
IDC	♦MOTA	254- 25
NJS	SCA	
SES	♦SPR	
JAN2N1499A	SPR	79- 84
		254- 26
2N1499B	△♦SPR	80- 65
CSR	♦ETC	256- 65
MOTA	SES	
2N1500	♦ETC	79- 97
IDC	MOTA	257- 83
NJS	SES	
	♦SPR	
JAN2N1500	SPR	79- 85
		253- 98
2N1501	GPD	166- 42
SES	SST	
	♦STC	
2N1502	GPD	166- 43
SES	SST	
	♦STC	
2N1504/10	GPD	165-110
	♦STC	
2N1505	△♦TRW	145- 99
CSR	IDI	
SCA	SSI	
2N1506	△♦TRW	146- 89
CSR	IDI	
SCA	SDE	
SOD	SSI	

TYPE No.	MFRS	Pg&Line
2N1506A	△♦TRW	146- 90
CSR	IDC	
IDI	SCA	
SDE	SOD	
	SSI	
2N1507	△♦TII	140- 99
CEI	CRI	
CSI	CSR	
♦ETC	IDI	
NJS	NTR	
♦RTN	SCA	
SDE	♦SES	
TADI	TIIB	
TIID	TIIF	
2N1510	CSR	91- 56
ETC	NJS	
	STI	
2N1511	SSI	214- 21
2N1512	SSI	214- 22
2N1513	SSI	214- 23
2N1514	SSI	214- 24
2N1517	CSR	81- 57
2N1518	CSR	169-108
GPD	♦MOTA	
NJS	SES	
SLD	SST	
	STC	
2N1519	CSR	169-109
GPD	♦MOTA	
NJS	SES	
SLD	SST	
	STC	
2N1520	CSR	169-110
GPD	♦MOTA	
NJS	SES	
SLD	SST	
	STC	
2N1521	CSR	170- 1
GPD	♦MOTA	
NJS	SES	
SLD	SST	
	STC	
2N1522	CSR	170- 2
GPD	♦MOTA	
NJS	SES	
SLD	SST	
	STC	
2N1523	CSR	170- 3
GPD	♦MOTA	
NJS	SES	
SLD	SST	
	STC	
2N1524	SES	81- 26
	STI	
2N1526	SES	81- 27
2N1529	△♦MOTA	170- 4
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
	STC	
2N1529A	△♦MOTA	171- 29
CSR	ETC	
GPD	♦SES	
	STC	
2N1530	△♦MOTA	170- 5
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
STC	UPI	
2N1530A	△♦MOTA	171- 30
CSR	ETC	
GPD	♦SES	
	STC	
2N1531	△♦MOTA	170- 6
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
STC	UPI	
2N1531A	△♦MOTA	171- 31
CSR	ETC	
GPD	NJS	
♦SES	STC	
2N1532	△♦MOTA	170- 7
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
STC	UPI	
2N1532A	△♦MOTA	171- 32
CSR	ETC	
GPD	NJS	
♦SES	STC	
2N1533	△♦MOTA	170- 8
CSR	♦ETC	
GPD	NJS	
♦SES	SST	
STC	UPI	
2N1534	△♦MOTA	170- 9
CSR	♦DEL	
♦ETC	GPD	
NJS	♦SES	
SLD	SST	
STC	UPI	
2N1534A	△♦MOTA	171- 33
CSR	ETC	
GPD	NJS	
♦SES	STC	
2N1535	△♦MOTA	170- 10
CSR	♦DEL	
♦ETC	GPD	
NJS	♦SES	
SLD	SST	
STC	UPI	
2N1535A	△♦MOTA	171- 34
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N1535A		
(cont.)	CSR	
	ETC	GPD
	NJS	♦SES
		STC
2N1536	△♦MOTA	170- 11
	CSR	♦DEL
	♦ETC	GPD
	NJS	♦SES
	SLD	SST
	STC	UPI
2N1536A	△♦MOTA	171- 35
	CSR	ETC
	GPD	NJS
	♦SES	STC
2N1537	△♦MOTA	170- 12
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	♦SES	SST
	STC	UPI
2N1537A	△♦MOTA	171- 36
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
2N1538	△♦MOTA	170- 13
	CSR	♦ETC
	GPD	NJS
	♦SES	SST
	STC	UPI
2N1539	△♦MOTA	170- 14
	CSR	♦DEL
	♦ETC	GPD
	NJS	♦SES
	SLD	SST
	STC	TIID
		UPI
2N1539A	△♦MOTA	170- 15
	CSR	ETC
	GPD	NJS
	♦SES	STC
2N1540	△♦MOTA	170- 16
	CSR	♦DEL
	♦ETC	GPD
	IDC	KER
	NJS	♦SES
	SLD	SST
	STC	TIID
2N1540A	△♦MOTA	170- 17
	CSR	ETC
	GPD	NJS
	♦SES	STC
2N1541	△♦MOTA	170- 18
	♦ETC	GPD
	NJS	♦SES
	SLD	STC
		TIID
2N1541A	△♦MOTA	170- 19
	CSR	ETC
	GPD	NJS
	♦SES	STC
2N1542	△♦MOTA	170- 20
	CSR	♦DEL
	GPD	NJS
	♦SES	SLD
	SST	STC
	TIID	UPI
2N1542A	△♦MOTA	170- 21
	CSR	GPD
	NJS	♦SES
		STC
2N1543	△♦MOTA	170- 22
	CSR	GPD
	NJS	♦SES
	SLD	SST
	STC	TIID
		UPI
2N1544	△♦MOTA	170- 23
	CSR	♦DEL
	♦ETC	GPD
	NJS	PRE
	SEI	♦SES
	SLD	SST
	♦STC	UPI
2N1544A	△♦MOTA	170- 24
	CSR	ETC
	GPD	♦SES
		STC
2N1545	△♦MOTA	170- 25
	CSR	♦ETC
	GPD	NJS
	♦SES	SLD
	SST	♦STC
		UPI
2N1545A	△♦MOTA	170- 26
	CSR	ETC
	GPD	NJS
	♦SES	STC
2N1546	△♦MOTA	170- 27
	CSR	♦DEL
	♦ETC	GPD
	NJS	♦SES
	SLD	SST
	♦STC	UPI
2N1546A	△♦MOTA	170- 28
	CSR	ETC
	GPD	NJS
	♦SES	STC
2N1547	△♦MOTA	170- 29
	CSR	GPD
	♦SES	SLD
	SST	♦STC
		UPI
2N1547A	△♦MOTA	170- 30
	CSR	GPD
	♦SES	STC
2N1548	△♦MOTA	170- 31
	CSR	GPD
	♦SES	STC
		UPI
2N1549	△♦MOTA	170- 32
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N1549A	△♦MOTA	170- 33
	CSR	ETC
	GPD	NJS
	♦SES	STC
JAN2N1549A	MOTA	170- 34
		236- 42
2N1550	△♦MOTA	170- 35
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N1550A	△♦MOTA	170- 36
	CSR	ETC
	GPD	NJS
	♦SES	STC
JAN2N1550A	MOTA	170- 37
		236- 43
2N1551	△♦MOTA	170- 38
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N1551A	△♦MOTA	170- 39
	CSR	ETC
	GPD	NJS
	♦SES	STC
JAN2N1551A	MOTA	170- 40
		236- 44
2N1552	△♦MOTA	170- 41
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N1552A	△♦MOTA	170- 42
	CSR	ETC
	GPD	NJS
	♦SES	STC
JAN2N1552A	MOTA	170- 43
		236- 45
2N1553	△♦MOTA	170- 44
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N1553A	△♦MOTA	170- 45
	CSR	ETC
	GPD	NJS
	♦SES	STC
JAN2N1553A	none	170- 46
		236- 53
2N1554	△♦MOTA	170- 47
	CSR	♦ETC
	GPD	NJS
	♦SES	SST
	STC	UPI
2N1554A	△♦MOTA	170- 48
	CSR	ETC
	GPD	NJS
	♦SES	STC
JAN2N1554A	none	170- 49
		236- 54
2N1555	△♦MOTA	170- 50
	CSR	♦ETC
	GPD	NJS
	♦SES	STC
		UPI
2N1555A	△♦MOTA	170- 51
	CSR	ETC
	GPD	NJS
	♦SES	STC
JAN2N1555A	none	170- 52
		236- 55
2N1556	△♦MOTA	170- 53
	CSR	♦ETC
	GPD	NJS
	SES	STC
2N1556A	△♦MOTA	170- 54
	CSR	ETC
	GPD	NJS
	SES	STC
JAN2N1556A	MOTA	170- 55
		236- 56
2N1557	△♦MOTA	170- 56
	CSR	♦ETC
	GPD	NJS
	SES	STC
2N1557A	CSR	170- 57
	ETC	GPD
	♦MOTA	NJS
		STC
JAN2N1557A	STC	170- 58
		236- 57
2N1558	△♦MOTA	170- 59
	CSR	♦ETC
	GPD	NJS
	PRE	SEI
	SES	STC
2N1558A	△♦MOTA	170- 60
	CSR	ETC
	GPD	NJS
	SES	STC
JAN2N1558A	STC	170- 61
		236- 58
2N1559	△♦MOTA	170- 62
	CSR	♦ETC
	GPD	NJS
	SES	STC
2N1559A	CSR	170- 63
	ETC	GPD
	♦MOTA	NJS
	SES	STC
JAN2N1559A	STC	170- 64
		236- 59
2N1560	△♦MOTA	170- 65
	CSR	GPD
	IDC	SES
		STC
2N1560A	△♦MOTA	170- 66
	CSR	GPD
	SES	STC
JAN2N1560A	MOTA	170- 67
	STC	236- 60
2N1561	△♦MOTA	89- 5
2N1562	△♦MOTA	89- 6
2N1564	CSR	140- 36
	♦ETC	NJS
	♦NPC	PHIN
	SES	SSI
	TADI	TIIF
2N1565	CEI	140- 37
	CSR	♦ETC
	ETIF	IDI
	MISI	NJS
	♦NPC	PHIN
	SCA	SES
	SSI	TADI
	THCF	TIID
		TIIF
2N1566	△♦TII	140- 38
	CSR	♦ETC
	ETIF	IDI
	MISI	NJS
	NPC	NSC
	PHIN	SCA
	SES	SSI
	TADI	THCF
	TIID	TIIF
2N1566A	CSR	141- 54
	♦ETC	ETIF
	MISI	NJS
	SES	SSI
	TADI	THCF
	TIID	TIIF
2N1572	CSR	140- 39
	♦ETC	NJS
	♦NPC	PHIN
	SLD	SSI
	SST	TIIF
2N1573	CSR	140- 40
	♦ETC	IDI
	NJS	♦NPC
	PHIN	SCA
	SLD	SSI
	SST	TIID
		TIIF
2N1574	CSR	140- 41
	♦ETC	IDI
	NJS	PHIN
	SCA	SLD
	SSI	SST
	STI	TIID
		TIIF
2N1586	△TII	113- 21
	CSR	♦ETC
	NJS	SSI
		STI
2N1587	△TII	113- 22
	CSR	♦ETC
	NJS	SSI
		STI
2N1588	△TII	113- 23
	CSR	♦ETC
	NJS	SSI
		STI
2N1589	△TII	113- 24
	CSR	♦ETC
	NJS	SSI
		STI
2N1590	△TII	113- 25
	CSR	♦ETC
	NJS	SSI
		STI
2N1591	△TII	113- 26
	CSR	♦ETC
	NJS	SSI
		STI
2N1592	△TII	113- 27
	CSR	♦ETC
	NJS	SSI
		STI
2N1593	△TII	113- 28
	CSR	♦ETC
	NJS	SSI
2N1594	△TII	113- 29
	CSR	♦ETC
	NJS	SSI
2N1605	CSR	92- 84
	♦ETC	IDI 244- 37
	NJS	PRE
	SEI	♦SES
	SLD	SST
	STI	TII
		TIID
2N1605A	CSR	93- 6
cont.next col.		
2N1605A		
(cont.)	ESI	
	♦ETC	IDI
	NJS	SES
2N1613	△♦FSC	145- 56
	ALGG	CEI
	CSI	CSR
	ELMA	ESI
	♦ETC	ETIF
	FERB	HSC
	HZN	IDC
	IDI	INTG
	ITTB	MEHK
	MISI	♦MOTA
	♦MULB	NASB
	NJS	♦NPC
	NSC	♦NTLB
	NTR	PHIC
	♦PHIN	PRE
	♦RCA	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	STI	TADI
	TEC	THCF
	♦TII	TIIB
	TIID	TIIF
	♦TSC	UPI
		♦VALG
JAN2N1613	MOTA	145- 57
	RTN	TII
		TSC
2N1613/46	SCA	138- 85
2N1613A	CSI	192- 62
	CSR	IDI
	NTR	RTN
	SCA	SDE
	♦SES	STI
		TADI
2N1613B	CSI	192- 63
	CSR	IDI
	NTR	RTN
	SCA	SDE
	♦SES	STI
2N1614	CSR	88- 91
	NJS	♦SES
		UPI
2N1615	△TEC	140- 59
	CSR	♦ETC
	IDI	NJS
	SCA	SLD
	SST	UPI
2N1616	△♦TEC	212- 77
	CSR	♦ETC
	GSE	IDI
	MISI	NJS
	PPC	SCA
	SDE	SEN
	♦SES	SLD
	SPC	SSI
	SST	♦STC
	THCF	UPI
2N1616A	△♦STC	214- 15
	CSR	ETC
	GSE	IDI
	PPC	SCA
	SDE	SEN
	♦SES	SLD
	SPC	SSI
	SST	♦TEC
2N1617	△♦TEC	212- 78
	CSR	♦ETC
	GSE	IDI
	MISI	NJS
	PPC	SCA
	SDE	SEN
	♦SES	SLD
	SPC	SSI
	SST	♦STC
	THCF	UPI
2N1617A	△♦STC	214- 16
	CSR	ETC
	GSE	IDI
	NJS	PPC
	SCA	SEN
	♦SES	SLD
	SPC	SSI
	SST	♦TEC
2N1618	△♦TEC	212- 79
	CSR	♦ETC
	GSE	IDI
	MISI	NJS
	PPC	SCA
	SDE	SEN
	♦SES	SLD
	SPC	SSI
	SST	♦STC
	THCF	UPI
2N1618A	△♦STC	214- 17
	CSR	ETC
	GSE	IDI
	NJS	PPC
	SCA	SDE
	SEN	♦SES
	SLD	SPC
	SSI	SST
		♦TEC
2N1620	△♦TEC	212- 80
	CSR	♦ETC
	NJS	♦SES
	SPC	SSI
		♦STC
2N1622	STI	91- 96
2N1623	△♦RTN	97- 3
	CSR	♦ETC
	IDI	NJS
	SCA	SLD
	SSI	SST
	STI	TADI
		TCY
2N1624	CSR	92- 57
	ETC	IDI 242- 28
		NJS
2N1632	SES	80- 80
		STI
2N1633	STI	80- 81
2N1634	STI	80- 82
2N1635	STI	80- 83
2N1636	STI	80- 84
2N1637	SES	80- 85
	STI	
2N1638	STI	80- 86
2N1639	SES	80- 87
	STI	
2N1640	△♦TCY	268- 13
	RTN	SCA
	SSI	STI
2N1641	△♦TCY	268- 14
	RTN	SCA
		SSI
2N1642	△♦TCY	268- 15
	RTN	SCA
		SSI
2N1643	△♦TCY	97- 5
	CEI	RTN
	SLD	SSI
		SST
2N1644	CEI	112- 3
	IDI	SCA
		SSI
JAN2N1646	none	83- 95
		234- 66
2N1647	△♦TEC	209- 50
	CSR	GSE
	SES	SLD
	SPC	SSI
	SST	♦STC
		UNI
2N1648	△♦TEC	209- 51
	CSR	GSE
	♦SES	SLD
	SPC	SSI
	SST	♦STC
		UNI
2N1649	△♦TEC	209- 31
	CSR	GSE
	♦SES	SLD
	SPC	SSI
	SST	♦STC
		UNI
2N1650	△♦TEC	209- 52
	CSR	GSE
	♦SES	SLD
	SPC	SSI
	SST	♦STC
		UNI
2N1651	CSR	170- 68
	♦ETC	GPD
	♦MOTA	SES
	SSI	UTS
JAN2N1651	MOTA	170- 69
		236- 61
2N1652	CSR	170- 70
	GPD	♦MOTA
	SES	SSI
		UTS
JAN2N1653	MOTA	170- 73
		236- 63
2N1654	CSR	96-109
	ETC	NJS
	SLD	SSI
	SST	♦TCY
2N1655	CSR	96-108
	ETC	NJS
	SLD	SSI
	SST	♦TCY
2N1656	CSR	96-110
	ETC	NJS
	SLD	SSI
	SST	♦TCY
2N1658/13	GPD	165- 3
	STC	
2N1659/13	GPD	165- 4
	STC	
2N1666	GPD	167- 13
	PHIC	
2N1667	GPD	167- 99
	PHIC	237- 82
2N1668	GPD	167-100
	PHIC	237- 83
2N1669	GPD	167-101
	PHIC	237- 84
2N1670	CSR	82- 87
SCA	SSI	
2N1671	△♦GESY	276- 61
CSR	NJS	
PRE	SEI	
SES	SLD	
SSI	SST	
♦TII	TIID	
	UPI	

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N1671A	Δ♦GESY	276- 62
	CSR	ESI
	NJS	PRE
	SEI	SES
	SLD	SSCF
	SSI	SST
	♦TII	TIID
		UPI
2N1671B	Δ♦GESY	276- 63
	CSR	ESI
	NJS	PRE
	SEI	SES
	SLD	SSCF
	SSI	SST
	♦TII	TIID
		UPI
2N1671C	Δ♦GESY	276- 64
	SES	SLD
	SSCF	SSI
	SST	UPI
2N1672	CEI	91- 99
	CSR	♦ETC
	IDI	NJS
	STI	UPI
2N1672A	CSR	91-100
	♦ETC	IDI
		UPI
2N1674	ΔTEC	117- 38
2N1676	IDC	94- 7
	IDI	SCA
	♦SPR	SSI
2N1677	IDC	94- 8
	IDI	SCA
	♦SPR	SSI
2N1678	SCA	82-101
	SSI	
2N1681	CSR	86- 92
	♦ETC	IDI
	NJS	UPI
2N1682	IDI	138-102
	SCA	SSI
2N1683	IDI	85- 90
	UPI	253- 70
2N1690	ΔTII	207- 78
	ETC	NJS
	SEN	♦SES
	SPC	SSI
		♦STC
2N1691	ΔTII	207- 79
	ETC	NJS
	SEN	♦SES
	SPC	SSI
		♦STC
2N1692	Δ♦MOTA	90- 34
2N1693	Δ♦MOTA	90- 35
2N1694	ETC	91- 59
	IDI	NJS 243- 19
2N1700	CSR	194- 36
	♦ETC	FERB
	IDI	NJS
	SCA	♦SES
	SLD	SPC
	SSI	SST
	♦STC	TEC
2N1701	CEI	203- 92
	CSR	FERB
	NJS	PRE
	SEI	SEN
	♦SES	SPC
	♦STC	UPI
2N1702	CEI	214- 18
	CRI	CSR
	♦ETC	♦FERB
	NJS	PPC
	SCA	SEN
	♦SES	SLD
	SOD	SPC
	SSI	SST
	♦STC	TEC
		UPI
2N1703	CSR	214- 19
	FERB	SSI
2N1704	CSR	137- 52
	♦ETC	NJS
2N1705	CSR	86-109
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	UPI
2N1706	CSR	86-110
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
		UPI
2N1707	CSR	87- 1
	♦ETC	IDI
	♦MOTA	NJS
	♦SES	STI
		UPI
2N1708	CSR	126- 99
	♦FERB	GESY
	♦MOTA	NJS
	SCA	SES
		SSI
2N1708A	CSR	127- 97
	SSI	263- 20
2N1709	Δ♦TRW	201- 25
	CSR	SCA
		SSI
2N1710	Δ♦TRW	201- 26
	CSR	SCA
		SSI
2N1711	ΔFSC	145-100
	ALGG	CEI

cont.next col.

TYPE No.	MFRS	Pg&Line
2N1711		
(cont.)	CRI	
	CSI	CSR
	ELMA	ESI
	ETC	ETIF
	HZN	IDC
	IDI	INTG
	ITTB	KER
	MEHK	MISI
	MOTA	♦MULB
	NASB	NJS
	NSC	NTLB
	NTR	♦PHIC
	♦PHIN	PRE
	♦RCA	RTCF
	RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SSI
	SST	STI
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	♦TSC
	UPI	♦VALG
JAN2N1711	TSC	145-101
		252- 97
2N1711/46	SCA	138- 95
2N1711A	CSI	192- 64
	CSR	HZN
	IDI	NJS
	NTR	RTN
	SCA	SDE
	♦SES	SSI
	SST	STI
		TADI
2N1711B	CSI	192- 65
	CSR	IDI
	NTR	RTN
	SCA	SDE
	♦SES	SSI
		STI
2N1714	Δ♦TII	144- 71
	CRI	CSR
	ETC	GSE
	IDI	NJS
	PRE	SCA
	SDE	SEI
	SLD	SOD
	SSI	SST
	TEC	TIIB
	TIID	TIIF
		♦UNI
JAN2N1714	TII	144- 72
2N1715	Δ♦TII	144- 73
	CSR	ETC
	GSE	IDI
	NJS	PRE
	SCA	SEI
	SLD	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
JAN2N1715	TII	144- 74
2N1716	Δ♦TII	144- 75
	CSR	ETC
	GSE	IDI
	NJS	PRE
	SCA	SDE
	SEI	SLD
	SOD	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
JAN2N1716	TII	144- 76
2N1717	Δ♦TII	144- 77
	CSR	ETC
	GSE	IDI
	NJS	PRE
	SCA	SEI
	SLD	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
JAN2N1717	TII	144- 78
2N1718	Δ♦TII	202- 89
	CSR	SCA
	SES	SLD
	SOD	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
2N1719	Δ♦TII	202- 90
	CSR	SCA
	SES	SLD
	SSI	SST
	TEC	TIIB
	TIID	TIIF
		♦UNI
2N1720	Δ♦TII	202- 91
	CSR	SCA
	SES	SLD
	SOD	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
2N1721	Δ♦TII	202- 92
	CSR	SCA
	SES	SLD
	SSI	SST
	TEC	TIIB
	TIID	TIIF
		♦UNI

TYPE No.	MFRS	Pg&Line
2N1722	Δ♦TII	217-107
	CSR	♦ETC
	NJS	PPC
	SCA	SEN
	SES	SSI
	♦STC	♦TEC
	TIIB	TIID
		UPI
JAN2N1722	SEN	217-108
	TEC	TII
2N1722A	Δ♦TII	217-109
	PPC	SEN
	SES	SSI
	♦STC	♦TEC
	TIIB	UPI
2N1723	Δ♦TII	217-110
	PPC	SEN
	SES	SSI
	♦STC	♦TEC
2N1724	Δ♦TII	218- 1
	CSR	♦ETC
	GSE	IDI
	KER	MISI
	♦MOTA	NJS
	PPC	PRE
	SCA	SDE
	SEI	SEN
	SES	♦SOD
	SSI	SST
	♦STC	♦TEC
	THCF	TIIB
	TIID	TRW
	♦UNI	UPI
JAN2N1724	TEC	TII 218- 2
2N1724A	Δ♦TII	218- 3
	CSR	GSE
	IDI	KER
	MISI	MOTA
	NJS	PPC
	SCA	SDE
	SEN	SES
	SSI	♦STC
	♦TEC	THCF
	TIIB	TRW
	UNI	UPI
2N1725	Δ♦TII	218- 4
	CSR	GSE
	IDI	KER
	MISI	♦MOTA
	PPC	PRE
	SCA	SDE
	SEI	♦SOD
	SSI	SST
	♦STC	♦TEC
	THCF	TRW
		♦UNI
2N1726	♦ETC	79- 86
	NJS	♦SPR
2N1727	♦ETC	79- 87
	NJS	♦SPR
2N1728	♦ETC	79- 88
	IDC	NJS
		♦SPR
2N1729	CSR	83- 96
	ETC	IDI 234- 99
	NJS	SLD
	SST	UPI
2N1730	CEI	92- 14
	CSR	ETC 234-100
	IDI	NJS
	SLD	SST
2N1731	CSR	85- 27
	ETC	IDI
	NJS	SLD
		SST
2N1732	CSR	92- 58
	ETC	IDI
	NJS	SLD
		SST
2N1742	CSR	79- 70
	♦ETC	IDC
	♦MOTA	NJS
	SES	♦SPR
2N1743	CSR	79- 68
	♦ETC	IDC
	NJS	SES
		♦SPR
2N1744	CSR	79- 57
	♦ETC	IDC
	NJS	SES
		♦SPR
2N1745	♦ETC	79- 66
	IDC	NJS
	SES	♦SPR
2N1746	♦ETC	79- 89
	IDC	NJS
	SCA	SES
		♦SPR
2N1747	♦ETC	79- 58
	IDC	NJS
	SCA	SES
		♦SPR
2N1748	♦ETC	79- 78
	IDC	NJS
	SCA	SES
		SPR
2N1748A	♦ETC	79- 74
	IDC	SES
		♦SPR
2N1749	♦ETC	80- 62
	IDC	NJS
	SCA	SES
		♦SPR

TYPE No.	MFRS	Pg&Line
2N1751	CSR	170- 74
	GPD	♦MOTA
	SES	SSI
2N1752	♦ETC	79- 75
	IDC	NJS
		SPR
2N1754	♦ETC	78-109
	IDC	MOTA 234- 52
	NJS	♦SPR
2N1755	ETC	166- 7
	GPD	NJS 244- 65
		♦STC
2N1756	ETC	166- 8
	GPD	NJS 244- 66
		♦STC
2N1757	ETC	166- 9
	GPD	NJS 244- 67
		♦STC
2N1758	GPD	166- 10
		♦STC 244- 68
2N1759	GPD	166- 11
	NJS	♦STC 244- 63
2N1760	GPD	166- 12
	IDC	NJS 244- 64
		♦STC
2N1761	GPD	166- 13
	NJS	♦STC 244- 69
2N1762	GPD	166- 14
		♦STC 244- 70
2N1768	CSR	207- 80
	ETC	NJS
	♦SEN	♦SES
	SPC	SSI
		♦STC
2N1769	CSR	207- 81
	ETC	NJS
	♦SEN	♦SES
	SPC	SSI
		♦STC
2N1785	CSR	78- 99
	♦ETC	IDC
	NJS	SCA
		♦SPR
2N1786	CSR	78-100
	♦ETC	IDC
	NJS	SCA
		♦SPR
2N1787	CSR	78-101
	♦ETC	IDC
	NJS	SCA
		♦SPR
2N1788	CSR	79- 90
	♦ETC	IDC
	NJS	SCA
		♦SPR
2N1789	CSR	79- 91
	♦ETC	IDC
	NJS	SCA
		♦SPR
2N1808	ΔTII	92- 85
	CSR	ETC 244- 36
	IDI	NJS
	♦SES	SLD
	SST	TIID
2N1809	SES	231- 91
	SPC	237- 10
2N1810	SES	231- 92
	SPC	237- 11
2N1811	SES	231- 93
	SPC	237- 12
2N1812	SES	231- 94
	SPC	237- 13
2N1813	SES	231- 95
	SPC	237- 14
2N1814	SES	231- 96
	SPC	237- 15
2N1816	SES	231- 97
	SPC	237- 16
2N1817	SES	231- 98
	SPC	237- 17
2N1818	SES	231- 99
	SPC	237- 18
2N1819	SES	231-100
	SPC	237- 19
2N1820	SES	232- 19
	SPC	237- 20
2N1823	SES	231-101
	SPC	237- 21
2N1824	SES	231-102
	SPC	237- 22
2N1825	SES	231-103
	SPC	237- 23
2N1826	SES	231-104
	SPC	237- 24
2N1830	SES	231-105
	SPC	237- 25
2N1831	SES	231-106
	SPC	237- 26
2N1832	SES	231-107
	SPC	237- 27
2N1833	SES	231-108
	SPC	237- 28
2N1837	CSR	141- 76
	♦ETC	IDI 256- 48
	NJS	SCA
		SSI
2N1837A	ETC	146- 91
	IDI	NJS 256- 49
	SCA	SSI

TYPE No.	MFRS	Pg&Line
2N1838	CEI	141- 48
	CSR	♦ETC 253- 94
	IDI	NJS
	SCA	SSI
2N1839	CSR	141- 49
	ETC	IDI 253- 95
	NJS	SCA
		SSI
2N1840	CSR	141- 50
	ETC	IDI 253- 97
	NJS	SCA
		SSI
2N1853	CSR	83- 97
	IDI	SSI
		UPI
JAN2N1853	none	83- 98
		235- 17
2N1854	IDI	85- 85
	SSI	UPI
JAN2N1854	none	85- 86
		249- 4
2N1864	CSR	79- 76
	♦ETC	IDC
	NJS	SCA
		♦SPR
2N1865	CSR	79- 99
	♦ETC	IDC
	NJS	SCA
		♦SPR
2N1867	CSR	79- 59
	♦ETC	IDC
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	SSI	SST
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2N1982	CSR	171-109
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2N1984	CEI	140 - 84
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	ETC	GPD
	NJS	STC
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		NJS
2N2076	△♦MOTA	172 - 2
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	♦DEL	GPD
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2N2076A	△♦MOTA	172 - 3
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2N2077	△♦MOTA	172 - 4
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	♦DEL	GPD
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2N2078	△♦MOTA	172 - 6
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	♦DEL	GPD
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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2N2080A	△♦MOTA	172-12
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		NJS
2N2081	△♦MOTA	172-13
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	♦DEL	GPD
	NJS	SLD
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2N2082	△♦MOTA	172-15
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2N2101	CRI	214-49
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	IDI	KER
	NJS	PPC
	SLD	SSI
	SST	STC
2N2102	△♦RCA	192-67
	AMC	CEI
	CRI	CSI
	CSR	FERB
	HZN	IDI
	KER	MEHK
	MOTA	NASB
	NJS	NSC
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SST	TADI
	TEC	♦TII
	TIIF	♦TSC
	UPI	♦VALG
2N2102A	△♦TII	192-68
	CSI	CSR
	ESI	HZN
	IDI	NTR
	♦RTN	SCA
	SDE	♦SES
		TADI
2N2106	CRI	189-62
	CSR	IDI
	SCA	SDE
	SES	SLD
	SST	STI
		TEC
2N2107	CRI	189-63
	CSR	ETC
	IDI	NJS
	SCA	SDE
	SES	SLD
	SST	STI
		TEC
2N2108	CRI	189-64
	CSR	ESI
	IDI	SCA
	SDE	SES
	SLD	SST
	STI	TEC
2N2109	SES	231-109
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	SPC	♦STC
2N2111	PTI	232-1
	SES	SPC 237-31
		♦STC
2N2112	SES	232-2
	SPC	♦STC 237-32
2N2113	SES	232-3
	SPC	♦STC 237-33
2N2114	KER	232-4
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		♦STC
2N2116	SES	232-5
	SPC	♦STC 237-35
2N2117	CRI	232-6
	CSR	KER 237-36
	PTI	SES
	SPC	♦STC
2N2118	PTI	232-7
	SES	SPC 237-37
		♦STC
2N2119	KER	232-8
	SES	SPC 237-38
		♦STC
2N2120	SES	232-20
	SPC	STC 237-39
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	SPC	♦STC
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		♦STC
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	SES	SPC 237-43
		♦STC
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2N2130	SES	232-14
	SPC	♦STC 237-45
2N2131	PTI	232-15
	SES	SPC 237-46
		♦STC
2N2132	PTI	232-16
	SES	SPC 237-47
		♦STC
2N2133	PTI	232-17
	SES	SPC 237-48
		♦STC
2N2137	△♦MOTA	168-42
	CRI	CSR
	♦ETC	GPD
	NJS	SES
	SST	STC
2N2137A	△♦MOTA	168-43
	CSR	♦ETC
	GPD	NJS
	SES	SST
2N2138	△♦MOTA	168-44
	CRI	CSR
	♦ETC	GPD
	NJS	SES
	SST	STC
2N2138A	△♦MOTA	168-45
	CSR	♦ETC
	GPD	NJS
	SES	SST
2N2139	△♦MOTA	168-46
	CRI	CSR
	♦ETC	GPD
	NJS	SES
	SST	STC
2N2139A	△♦MOTA	168-47
	CSR	♦ETC
	GPD	NJS
	SES	SST
2N2140	△♦MOTA	168-48
	CRI	CSR
	♦ETC	GPD
	NJS	SES
		STC
2N2140A	△♦MOTA	168-49
	CSR	♦ETC
	GPD	NJS
	SES	SST
2N2141	△♦MOTA	168-50
	CRI	CSR
	♦ETC	GPD
	NJS	SES
		STC
2N2141A	△♦MOTA	168-51
	CSR	♦ETC
	GPD	NJS
		SES
2N2142	△♦MOTA	168-52
	CRI	CSR
	♦ETC	GPD
	NJS	SES
		STC
2N2142A	△♦MOTA	168-53
	CSR	♦ETC
	GPD	NJS
	SES	SST
2N2143	△♦MOTA	168-54
	CRI	CSR
	♦ETC	GPD
	NJS	SES
		STC
2N2143A	△♦MOTA	168-55
	CSR	GPD
	SES	SST
2N2144	△♦MOTA	168-56
	CRI	CSR
	♦ETC	GPD
	NJS	SES
		STC
2N2144A	△♦MOTA	168-57
cont.next col.		
2N2144A		
(cont.)	CSR	
	♦ETC	GPD
	NJS	SES
		SST
2N2145	△♦MOTA	168-58
	CRI	CSR
	♦ETC	GPD
	NJS	SES
		STC
2N2145A	△♦MOTA	168-59
	CSR	♦ETC
	GPD	NJS
	SES	SST
2N2146	△♦MOTA	168-60
	CRI	CSR
	GPD	SES
		STC
2N2146A	△♦MOTA	168-61
	CSR	GPD
		SES
2N2147	CSR	166-102
	ESI	♦ETC
	GPD	NJS
		SES
2N2148	CSR	166-103
	ESI	♦ETC
	GPD	NJS
	PRE	SEI
		SES
2N2150	△♦TII	212-81
	CSR	GSE
	IDI	PPC
	SCA	SLD
	SOD	SSI
	SST	STC
	♦TEC	TIIB
	TIID	UNI
JAN2N2150	TEC	212-82
2N2151	△♦TII	212-83
	CRI	CSR
	GSE	IDI
	KER	PPC
	SCA	SLD
	SOD	SSI
	SST	STC
	♦TEC	TIIB
	TIID	UNI
JAN2N2151	TEC	212-84
	TII	UNI
2N2152	△♦MOTA	172-17
	CRI	CSR
	GPD	NJS
	SES	STC
		UTS
2N2152A	△♦MOTA	172-18
	CSR	GPD
	NJS	SES
2N2153	△♦MOTA	172-19
	CRI	CSR
	GPD	NJS
	SES	STC
		UTS
2N2153A	△♦MOTA	172-20
	CSR	GPD
	NJS	SES
2N2154	△♦MOTA	172-21
	CRI	CSR
	GPD	NJS
	SES	STC
		UTS
2N2154A	△♦MOTA	172-22
	CSR	GPD
	NJS	SES
2N2155	△MOTA	172-23
	CSR	GPD
	SES	STC
		UTS
2N2155A		GPD 172-24
		SES
2N2156	△♦MOTA	172-25
	CRI	CSR
	GPD	NJS
	SES	STC
		UTS
2N2156A	△♦MOTA	172-26
	CSR	GPD
	NJS	SES
2N2157	△♦MOTA	172-27
	CSR	GPD
	NJS	SES
	STC	UTS
2N2157A	△♦MOTA	172-28
	CSR	GPD
	NJS	SES
2N2158	△♦MOTA	172-29
	GPD	NJS
	SES	STC
		UTS
2N2158A	△♦MOTA	172-30
	CSR	GPD
	NJS	SES
2N2159	△MOTA	172-31
	CSR	GPD
	SES	STC
2N2160	SCA	276-65
	SES	SLD
	SSCF	SSI
	SST	♦TII
		TIID
2N2162	△♦SPR	95-31
	IDC	IDI 277-70
	RTN	SCA
	SSI	♦TCY
2N2163	△♦SPR	95-32
	IDC	IDI 277-71
	RTN	SCA
	SSI	♦TCY
2N2164	△♦SPR	95-38
	IDC	IDI 277-72
	RTN	SCA
	SSI	♦TCY
2N2165	△♦SPR	95-28
	IDC	IDI 277-73
	RTN	SCA
	SSI	♦TCY
2N2166	△♦SPR	95-29
	IDC	IDI 277-74
	RTN	SCA
	SSI	♦TCY
2N2167	△♦SPR	95-37
	IDC	IDI 277-75
	SCA	SSI
		♦TCY
2N2168	△♦SPR	80-6
	CRI	CSR 265-55
	♦ETC	IDC
		NJS
2N2169	△♦SPR	80-7
	CRI	CSR 265-56
	♦ETC	IDC
		NJS
2N2170	△♦SPR	80-1
	CRI	CSR 264-17
	♦ETC	IDC
		NJS
2N2171	CSR	87-6
	♦ETC	♦MOTA
	NJS	♦SES
2N2172	CSR	88-27
	ETC	IDI 242-26
		NJS
2N2173	SLD	88-92
	SST	234-6
2N2175	CEI	94-37
	CSR	IDI
	RTN	SCA
	SLD	SSI
	SST	♦TCY
2N2176	CEI	94-38
	CSR	IDI
	KER	RTN
	SCA	SLD
	SSI	SST
		♦TCY
2N2177	CEI	94-35
	CSR	IDI
	RTN	SCA
	SLD	SSI
	SST	♦TCY
2N2178	CEI	94-36
	CSR	IDI
	RTN	SCA
	SLD	SSI
	SST	♦TCY
2N2181	RTN	94-101
		277-76
2N2182	RTN	94-102
		277-77
2N2185	IDI	94-61
	♦RTN	SCA 277-78
	♦SPR	SSI
	TADI	♦TCY
2N2186	IDI	94-62
	♦RTN	SCA 277-79
	SPR	SSI
	TADI	TCY
2N2187	IDI	94-63
	♦RTN	SCA 277-80
	♦SPR	SSI
	TADI	♦TCY
2N2188	PRE	83-58
	SEI	♦SES
	SLD	SST
	STI	TIID
2N2189	♦SES	83-61
	SLD	SST
	STI	TIID
2N2190	♦SES	83-59
	SLD	SST
	STI	TIID
2N2191	PRE	83-62
	SEI	♦SES
	SLD	SST
	STI	TIID
2N2192	CRI	145-18
	CSI	CSR 250-108
	ETIF	HSC
	HZN	IDI
	ITT	MEHK
	MISI	♦MOTA
	NASB	NJS
	NSC	NTR
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	STI	TADI
	THCF	♦TII
	TIIB	TIID
	TIIF	♦TSC
2N2192A	CSI	145-19
	CSR	ETIF 250-109
	HSC	HZN
	IDI	ITT
	MEHK	MISI
	♦MOTA	NASB
	NJS	NSC
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2N2192A		
(cont.)	NTR	
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	STI	TADI
	THCF	♦TII
	TIIB	TIID
	TIIF	
2N2192B	CSI	145-20
	HSC	IDI 250-110
	ITT	♦MOTA
	NJS	NTR
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	STI	TADI
		TIIF
2N2193	ALGG	145-21
	CRI	CSI 251-1
	CSR	ESI
	ETIF	♦FSC
	HSC	HZN
	IDI	ITT
	MEHK	MISI
	♦MOTA	NASB
	NJS	NSC
	NTR	♦RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SST
	STI	TADI
	THCF	♦TII
	TIIB	TIID
	TIIF	♦TSC
2N2193A	CSI	145-22
	ETIF	♦FSC 251-2
	HSC	HZN
	IDI	ITT
	MEHK	MISI
	♦MOTA	NASB
	NJS	NSC
	NTR	♦RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SST
	STI	TADI
	THCF	♦TII
	TIIB	TIID
		TIIF
2N2193B	CSI	145-23
	CSR	HSC 251-3
	IDI	ITT
	♦MOTA	NJS
	NTR	♦RTN
	SCA	SDE
	♦SES	SLD
	SST	STI
		TADI
2N2194	CRI	145-24
	CSI	CSR 251-4
	ETIF	HSC
	HZN	IDI
	ITT	MEHK
	MISI	♦MOTA
	NJS	♦RTN
	SCA	SDE
	♦SES	SLD
	SST	STI
		TADI
2N2194A	CSI	145-25
	CSR	ETIF 251-5
	HSC	HZN
	IDI	ITT
	MEHK	MISI
	♦MOTA	NJS
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	STI	TADI
	THCF	♦TII
	TIIB	TIID
	TIIF	
2N2194B	CSI	145-26
	CSR	HSC 251-6
	IDI	ITT
	♦MOTA	NJS
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	STI	TADI
2N2195	CRI	140-101
	CSI	CSR
	ETC	ETIF
	♦FSC	HSC
	HZN	IDI
	ITT	MEHK
	MISI	♦MOTA
	NASB	NJS
	NSC	NTR
	♦RTN	SCA
	SDE	♦SES
	SGAI	SLD
	STI	TADI
	TEC	THCF
		♦TSC
2N2195A	CSI	140-102
	CSR	ETC
	ETIF	HSC
	HZN	IDI
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
2N2195A		
(cont.)	ITT	
MEHK	MISI	
♦MOTA	NASB	
NJS	NSC	
NTR	♦RTN	
SCA	SDE	
♦SES	SGAI	
SLD	SST	
STI	TADI	
	THCF	
2N2195B	CSI	140-103
CSR	ETC	
♦FSC	HSC	
IDI	ITT	
♦MOTA	NJS	
NTR	♦RTN	
SCA	SDE	
♦SES	SLD	
SST	STI	
	TADI	
2N2196	CRI	202 - 93
CSR	MISI	
SCA	SSI	
STI	TEC	
THCF	UTS	
2N2197	CSR	202 - 94
MISI	SCA	
SSI	STI	
TEC	THCF	
	UTS	
2N2198	♦ETC	140 - 75
	NJS	
2N2199	CSR	80 - 63
	♦ETC	
2N2200	♦ETC	80 - 64
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2N2201	CSR	198 - 81
SCA	SLD	
SSI	SST	
STI	TEC	
2N2202	SCA	198 - 82
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2N2203	SCA	198 - 83
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2N2204	SSI	198 - 84
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IDI	ITT	
NJS	RTN	
SCA	SDE	
♦SES	SGAI	
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	SES	
2N2207	PHIC	89 - 53
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GPD	MOTA	
2N2212	CSR	170 - 82
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	SSI	
2N2217	Δ♦MOTA	147 - 20
CRI	CSI	
CSR	HZN	
IDC	IDI	
♦ITT	ITTB	
♦MEHK	NASB	
NJS	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SLD	
♦SPR	SST	
TADI	♦TEC	
♦TII	TIIB	
TIID	TIIF	
♦TSC	UPI	
2N2218	Δ♦MOTA	147 - 21
♦ALGG	BELI	
CRI	CSI	
CSR	ELMA	
♦ETC	ETIF	
♦FSC	HSC	
HZN	IDI	
INTG	♦ITT	
ITTB	KER	
♦MEHK	MISI	
NASB	NJS	
♦NPC	♦NSC	
♦NTLB	NTR	
PHIC	♦PHIN	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SLD	
♦SPR	SST	
STI	TADI	
TEC	THCF	
♦TII	TIIB	
TIID	TIIF	
♦TSC	UPI	
	♦VALG	
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NSC	RTN	261 - 64
TEC	TII	
	TSC	
2N2218A	Δ♦MOTA	147 - 23
♦ALGG	BELI	260-104
CSI	CSR	
ELMA	ETC	

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TYPE No.	MFRS	Pg&Line
2N2218A		
(cont.)	ETIF	
♦FSC	HSC	
HZN	IDC	
IDI	♦INTG	
ITT	ITTB	
MEHK	MISI	
NASB	NJS	
♦NSC	♦NTLB	
NTR	♦PHIC	
♦PHIN	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	♦SPR	
SST	STI	
TADI	TEC	
THCF	♦TII	
TIIB	TIID	
TIIF	♦TSC	
UPI	♦VALG	
JAN2N2218A	MOTA	147 - 24
NSC	RTN	261 - 33
TEC	TII	
	TSC	
2N2219	Δ♦MOTA	147 - 25
♦ALGG	BELI	
CRI	CSI	
CSR	ELMA	
♦ETC	ETIF	
♦FSC	HSC	
HZN	IDC	
IDI	INTG	
♦ITT	ITTB	
KER	♦MEHK	
MISI	♦MULB	
NASB	NJS	
♦NPC	♦NSC	
♦NTLB	NTR	
PHIC	♦PHIN	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SLD	
♦SPR	SST	
STI	TADI	
TEC	THCF	
♦TII	TIIB	
TIID	TIIF	
♦TSC	UPI	
	♦VALG	
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MOTA	NSC	261 - 65
RTN	TEC	
TII	TSC	
2N2219A	Δ♦MOTA	147 - 59
♦ALGG	BELI	262 - 84
CEI	CRI	
CSI	CSR	
ELMA	ETC	
ETIF	♦FSC	
HSC	HZN	
IDI	♦INTG	
ITT	ITTB	
KER	MEHK	
MISI	NASB	
NJS	♦NSC	
♦NTLB	NTR	
PHIC	♦PHIN	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SLD	
♦SPR	SST	
STI	TADI	
TEC	THCF	
♦TII	TIIB	
TIID	TIIF	
♦TSC	UPI	
	♦VALG	
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MOTA	NSC	261 - 34
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TII	TSC	
2N2220	Δ♦MOTA	139 - 8
CEI	CRI	
CSI	CSR	
HZN	IDC	
IDI	♦ITT	
ITTB	♦MEHK	
NJS	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SLD	
♦SPR	SST	
STI	TADI	
♦TEC	♦TII	
TIIB	TIID	
TIIF	♦TSC	
	UPI	
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STI	TIID	
2N2221	Δ♦MOTA	139 - 9
♦ALGG	BELI	
CEI	CRI	
CSI	CSR	
ELMA	♦ETC	
ETIF	♦FSC	
HSC	HZN	
IDC	IDI	
INTG	♦ITT	
ITTB	♦MEHK	
MISI	NASB	

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TYPE No.	MFRS	Pg&Line
2N2221		
(cont.)	NJS	
♦NPC	♦NSC	
♦NTLB	NTR	
PHIC	♦PHIN	
PRE	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SLD	
♦SPR	SST	
STI	TADI	
♦TEC	THCF	
♦TII	TIIB	
TIID	TIIF	
♦TSC	UPI	
	♦VALG	
JAN2N2221	ITT	139 - 10
MOTA	NSC	261 - 66
RTN	SPR	
TEC	TII	
	TSC	
2N2221A	Δ♦MOTA	139 - 11
♦ALGG	BELI	260-105
CRI	CSI	
CSR	ELMA	
ETC	♦FSC	
HSC	HZN	
IDC	IDI	
♦INTG	ITT	
ITTB	MISI	
NASB	NJS	
♦NSC	♦NTLB	
NTR	♦PHIC	
♦PHIN	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	♦SPR	
SST	STI	
TADI	TEC	
THCF	♦TII	
TIIB	TIID	
TIIF	♦TSC	
UPI	♦VALG	
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MOTA	NSC	261 - 35
RTN	SPR	
TEC	TII	
	TSC	
2N2222	Δ♦MOTA	139 - 13
♦ALGG	BELI	
CEI	CRI	
CSI	CSR	
ELMA	♦ETC	
ETIF	♦FSC	
HSC	HZN	
IDC	IDI	
INTG	♦ITT	
ITTB	KER	
♦MEHK	MISI	
♦MULB	NASB	
NJS	♦NPC	
NSC	♦NTLB	
NTR	PHIC	
♦PHIN	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	♦SPR	
SST	STI	
TADI	♦TEC	
THCF	♦TII	
TIIB	TIID	
TIIF	♦TSC	
UPI	♦VALG	
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RTN	SPR	
TEC	TII	
	TSC	
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♦ALGG	BELI	262 - 85
CRI	CSI	
CSR	ELMA	
ETC	ETIF	
♦FSC	HSC	
HZN	IDC	
IDI	♦INTG	
ITT	ITTB	
KER	MEHK	
MISI	♦MULB	
NASB	NJS	
♦NSC	♦NTLB	
NTR	♦PHIC	
♦PHIN	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	♦SPR	
SST	STI	
TADI	TEC	
THCF	♦TII	
TIIB	TIID	
TIIF	♦TSC	
UPI	♦VALG	
JAN2N2222A	ITT	139 - 15
MOTA	NSC	261 - 36
RTN	SPR	
TEC	TII	
	TSC	
2N2223	CSR	137 - 96
FERB	FSC	269 - 50
♦MOTA	NPC	

cont.next col.

TYPE No.	MFRS	Pg&Line
2N2223		
(cont.)	NTR	
♦RTN	SCA	
SES	SGAI	
SSI	TADI	
♦TII	TIIB	
TIID	TIIF	
	♦TSC	
2N2223A	CSR	137 - 97
ESI	FERB	269 - 51
FSC	♦MOTA	
NTR	♦RTN	
SES	SGAI	
SSI	TADI	
♦TII	TIIB	
TIID	TIIF	
	♦TSC	
2N2224	Δ♦MOTA	147 - 28
CEI	HSC	
IDI	SCA	
2N2226	Δ♦WESY	229 - 53
KER	SCA	
♦SES	♦SPC	
♦SSI	♦STC	
2N2227	Δ♦WESY	229 - 54
KER	SCA	
♦SES	♦SPC	
♦SSI	STC	
2N2228	Δ♦WESY	229 - 55
KER	SCA	
♦SES	♦SPC	
♦SSI	STC	
2N2229	Δ♦WESY	229 - 56
KER	♦SES	
♦SPC	♦SSI	
	STC	
2N2230	Δ♦WESY	229 - 57
SCA	♦SES	
♦SPC	SSI	
	STC	
2N2231	Δ♦WESY	229 - 58
SCA	♦SES	
♦SPC	SSI	
	STC	
2N2232	Δ♦WESY	229 - 59
SCA	♦SES	
♦SPC	SSI	
	STC	
2N2233	Δ♦WESY	229 - 60
♦SES	♦SPC	
SSI	STC	
2N2236	CSI	140-104
CSR	IDI	250 - 91
RTN	SCA	
SDE	♦SES	
	SSI	
2N2237	CEI	141 - 59
CSI	CSR	253 - 99
IDI	NTR	
RTN	SCA	
SDE	♦SES	
	SSI	
2N2239	SSI	186 - 1
2N2240	IDI	140-105
SCA	SSI	
2N2241	IDI	140-106
SCA	SSI	
2N2242	CSR	134 - 22
IDI	ITT	
♦MOTA	SCA	
SES	SLD	
	SST	
2N2243	CSI	145 - 27
CSR	IDI	
MEHK	NASB	
NSC	NTR	
♦RTN	SCA	
SDE	♦SES	
SSI	SST	
TADI	TEC	
♦TII	TIIB	
TIID	TIIF	
2N2243A	CSI	145 - 28
CSR	IDI	
MEHK	NASB	
NSC	NTR	
♦RTN	SCA	
SDE	♦SES	
SSI	TADI	
TEC	♦TII	
TIIB	TIID	
	TIIF	
2N2256	Δ♦MOTA	127 - 47
CEI	IDI	260 - 80
	SCA	
2N2257	Δ♦MOTA	127 - 48
CEI	IDI	260 - 81
	SCA	
2N2258	Δ♦MOTA	85-110
	IDI	260 - 82
2N2259	Δ♦MOTA	86 - 1
	IDI	260 - 83
2N2266	GPD	166 - 81
SST	STC	260 - 53
2N2267	GPD	166 - 82
SST	STC	260 - 54
2N2268	SST	166 - 83
		260 - 55
2N2269	SST	166 - 84
		260 - 56
2N2270	Δ♦RCA	188 - 55
CEI	CRI	
CSI	CSR	

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TYPE No.	MFRS	Pg&Line
2N2270		
(cont.)	♦ETC	
FERB	FSC	
HZN	IDI	
KER	MOTA	
NASB	NJS	
NSC	NTR	
PRE	RTN	
SCA	SDE	
SEI	♦SES	
SST	STI	
TADI	TEC	
♦TII	TIIF	
	♦TSC	
2N2271	CRI	89 - 8
CSR	♦ETC	
IDI	NJS	
	UPI	
2N2273	IDI	82 - 42
♦MOTA	SSI	
JAN2N2273	MOTA	82 - 46
2N2274	IDC	94-103
IDI	♦RTN	277 - 81
♦SPR	SSI	
TADI	♦TCY	
2N2275	IDC	94-104
IDI	♦RTN	277 - 82
♦SPR	SSI	
TADI	♦TCY	
2N2276	IDC	94-105
IDI	♦RTN	277 - 83
♦SPR	SSI	
	♦TCY	
2N2277	IDC	94-106
IDI	♦RTN	277 - 84
♦SPR	SSI	
	♦TCY	
2N2278	IDC	94 - 64
♦RTN	♦SPR	277 - 85
SSI	TADI	
	♦TCY	
2N2279	IDC	94 - 65
♦RTN	♦SPR	277 - 86
SSI	TADI	
	♦TCY	
2N2280	IDC	94 - 66
♦RTN	♦SPR	277 - 87
SSI	TADI	
	♦TCY	
2N2281	IDC	94 - 67
♦RTN	♦SPR	277 - 88
SSI	♦TCY	
2N2282	CSR	164 - 61
GPD	STC	
2N2283	CSR	164 - 62
GPD	STC	
2N2284	CSR	164 - 63
GPD	STC	
2N2285	CSR	170 - 83
♦ETC	GPD	
♦MOTA	NJS	
SES	SSI	
	UTS	
2N2286	CSR	170 - 84
GPD	♦MOTA	
SES	SSI	
	UTS	
2N2287	CRI	170 - 85
CSR	GPD	
♦MOTA	SES	
SSI	UTS	
2N2288	CRI	168 - 62
CSR	♦ETC	
GPD	♦MOTA	
NJS	SES	
	SSI	
2N2289	CSR	168 - 63
♦ETC	GPD	
♦MOTA	NJS	
SES	SSI	
2N2290	CSR	168 - 64
GPD	♦MOTA	
SES	SSI	
2N2291	CRI	168 - 65
CSR	♦ETC	
GPD	♦MOTA	
NJS	SES	
SSI	UTS	
2N2292	CSR	168 - 66
♦ETC	GPD	
♦MOTA	NJS	
SES	SSI	
	UTS	
2N2293	CSR	168 - 67
GPD	♦MOTA	
SES	SSI	
	UTS	
2N2294	CSR	168 - 68
♦ETC	GPD	236 - 64
NJS	SES	
SSI	UTS	
2N2295	CSR	168 - 69
♦ETC	GPD	236 - 65
NJS	SES	
SSI	UTS	
2N2296	CSR	168 - 70
GPD	IDC	236 - 66
SES	SSI	
	UTS	
2N2297	CEI	145 - 61
CRI	CSI	
CSR	ELMA	
IDI	ITT	

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N2297		
(cont.)	MOTA	
	♦MULB	NASB
	NJS	♦NTLB
	NTR	PHIC
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	STI
	TADI	TEC
	TIIF	♦VALG
2N2303	CSI	108 - 71
	CSR	ETC
	HZN	IDI
	ITT	♦MOTA
	MULB	NASB
	NJS	NTR
	♦RTN	SCA
	SDE	♦SES
	SLD	SSI
	SST	STI
	TADI	♦TEC
	♦TII	TIID
2N2303/46	SCA	106 - 24
2N2304	SEN	203 - 50
	♦SES	SPC
		♦STC
2N2305	CSR	214 - 12
	GIC	IDI
	PPC	SDE
	SEN	♦SES
	SLD	♦SOD
	SPC	SSI
	SST	♦STC
		TEC
2N2308	Δ♦STC	203 - 51
	SCA	SEN
	♦SES	SPC
		SSI
2N2309	Δ♦RTN	140 - 44
	CEI	CSI
	CSR	IDI
	NTR	SCA
	SDE	♦SES
		SSI
2N2310	Δ♦RTN	131 - 49
	CRI	CSI
	CSR	ETC
	SCA	SDE
	♦SES	SSI
2N2311	Δ♦RTN	131 - 50
	CSI	SCA
	SDE	♦SES
		SSI
2N2312	Δ♦RTN	131 - 51
	CSI	CSR
	ETC	NJS
	NTR	SCA
	SDE	♦SES
		SSI
2N2313	CRI	131 - 52
	CSI	NJS
	NTR	♦RTN
	SCA	SDE
	♦SES	SSI
2N2314	Δ♦RTN	131 - 61
	CSI	CSR
	ETC	NJS
	SCA	SDE
	♦SES	SSI
2N2315	Δ♦RTN	131 - 64
	CSI	CSR
	ETC	NJS
	NTR	SCA
	SDE	♦SES
		SSI
2N2316	Δ♦RTN	131 - 65
	CSI	NTR
	SCA	SDE
	♦SES	SSI
		TADI
2N2317	Δ♦RTN	131 - 69
	CSI	CSR
	ETC	NJS
	NTR	SCA
	SDE	♦SES
	SSI	TADI
2N2318	CSR	134 - 23
	ETC	NJS
	SES	SSI
2N2319	MOTA	127 - 98
	SES	263 - 57
2N2330	ΔMOTA	146 - 27
	CEI	CRI
	CSR	HSC
	IDI	♦SCA
		SSI
2N2331	ΔMOTA	138 - 55
	CEI	CSR
	IDI	♦SCA
		SSI
2N2332	CSR	94 - 91
	IDI	RTN
	SSI	♦TCY
2N2333	CSR	94 - 92
	IDI	RTN
	SSI	♦TCY
2N2334	CSR	94 - 93
	IDI	RTN
	SSI	♦TCY
2N2335	CSR	94 - 94
	IDI	RTN
	SSI	♦TCY

TYPE No.	MFRS	Pg&Line
2N2336	CSR	94 - 95
	IDI	RTN
	SSI	♦TCY
2N2337	CSR	94 - 96
	IDI	RTN
	SSI	♦TCY
2N2338	SSI	223 - 20
2N2339	CSR	207 - 96
	♦ETC	SEN
		STI
2N2349	IDI	113 - 75
	SCA	TEC
2N2350	CSI	135 - 73
	CSR	ITT	251 - 7
	NTR	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
		TADI
2N2350A	CSI	135 - 74
	CSR	ITT	251 - 8
	NTR	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
		TADI
2N2351	CSI	135 - 75
	CSR	ITT	251 - 9
	NTR	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	TADI	UPI
2N2351A	CSI	135 - 76
	CSR	ITT	251 - 10
	♦RTN	SCA
	SDE	♦SES
	SLD	SSI
	SST	TADI
		UPI
2N2352	CSI	135 - 77
	CSR	ITT	251 - 11
	♦RTN	SCA
	SDE	♦SES
	SLD	SSI
	SST	TADI
		UPI
2N2352A	CSI	135 - 78
	CSR	ITT	251 - 12
	♦RTN	SCA
	SDE	♦SES
	SLD	SSI
	SST	TADI
		UPI
2N2353	CSI	131 - 66
	CSR	ITT
	NTR	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	TADI	UPI
2N2353A	CSI	131 - 67
	CSR	ITT
	NTR	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	TADI	UPI
2N2354	SSI	92 - 98
2N2357	CSR	172 - 32
	GPD	♦MOTA	236 - 98
2N2358	CSR	172 - 33
	GPD	♦MOTA	236 - 99
2N2359	CSR	172 - 34
	GPD	♦MOTA	236-100
2N2360	IDC	80 - 20
	♦SPR	
2N2361	IDC	80 - 21
	♦SPR	
2N2362	IDC	80 - 22
	♦SPR	
2N2364	CSI	135 - 79
	NTR	♦RTN	251 - 13
	SCA	SDE
	♦SES	SSI
		TADI
2N2364A	CSI	135 - 80
	NTR	♦RTN	251 - 14
	SCA	SDE
	♦SES	SSI
		TADI
2N2368	Δ♦FSC	134 - 82
	♦BELI	CEI	264 - 57
	CSI	CSR
	ELMA	♦ETC
	ETIF	♦FERB
	HZN	INTG
	♦ITT	ITTB
	MEHK	MISI
	♦MOTA	NJS
	♦NTLB	PHIC
	PHIN	PRE
	RTCF	♦RTN
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	TADI	♦TEC
	♦THCF	TIIF
	♦TSC	UPI
		♦VALG
2N2369	Δ♦FSC	134-108
	♦BELI	CRI	265 - 76
	CSI	CSR
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2369		
(cont.)	ELMA	
	♦ETC	ETIF
	♦FERB	HSC
	HZN	IDI
	INTG	♦ITT
	ITTB	MEHK
	MISI	♦MOTA
	♦MULB	NASB
	NJS	♦NPC
	NSC	♦NTLB
	NTR	PHIC
	PHIN	PRE
	RTCF	♦RTN
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	TADI	♦TEC
	♦THCF	TIID
	TIIF	♦TSC
	UPI	♦VALG
2N2369/46	SCA	136 - 62
2N2369A	Δ♦FSC	134-109
	♦BELI	CEI	265 - 77
	CRI	CSI
	CSR	ELMA
	ESI	ETIF
	♦FERB	HZN
	IDI	INTG
	♦ITT	ITTB
	KER	MEHK
	MISI	♦MOTA
	♦MULB	NASB
	NJS	NSC
	♦NTLB	NTR
	PHIC	♦PHIN
	PRE	♦RTCF
	♦RTN	SDE
	SEI	♦SES
	SGAI	SLD
	SST	TADI
	TEC	♦THCF
	TIIF	♦TSC
	UPI	♦VALG
JAN2N2369A	ITT	134-110
	MOTA	NSC	265 - 78
	RTN	TEC
		TSC
2N2370	SSI	95 - 85
		♦TCY
2N2371	SSI	95 - 86
		♦TCY
2N2372	SSI	94 - 97
		♦TCY
2N2373	SSI	94 - 98
		♦TCY
2N2374	CRI	89 - 34
	CSR	♦ETC
	IDI	MOTA
	NJS	SST
		STI
2N2375	CSR	89 - 7
	♦ETC	IDI
	MOTA	NJS
	SST	STI
2N2376	CSR	269 - 52
	♦ETC	IDI
	NJS	SST
		STI
2N2377	Δ♦SPR	95 - 14
	CSR	IDC
	RTN	SSI
	SST	♦TCY
JAN2N2377	TCY	95 - 15
2N2378	Δ♦SPR	95 - 7
	CSR	IDC
	SSI	♦TCY
JAN2N2378	TCY	95 - 8
2N2380	CSI	141 - 60
	CSR	IDI	254-106
	NTR	RTN
	SCA	SDE
	♦SES	SSI
2N2380A	CSI	141 - 61
	CSR	NTR	254-107
	RTN	SDE
	♦SES	SSI
2N2381	Δ♦MOTA	90 - 21
		262 - 82
2N2382	Δ♦MOTA	90 - 22
		262 - 83
2N2383	Δ♦STC	214-107
	ETC	SCA
	SPC	SSI
2N2384	Δ♦STC	214-108
	IDI	SCA
		SSI
2N2386	Δ♦TII	152 - 26
	IDC	INL
	♦SIX	SLD
	♦SODI	TIIB
		TIIF
2N2386A	Δ♦TII	152 - 27
	INL	SLD
2N2387	Δ♦TII	124 - 50
		TIIF
2N2388	Δ♦TII	124 - 51
		TIIF
2N2389	Δ♦TII	136-106
		TIIF	252 - 36
2N2390	Δ♦TII	136-107
		TIIF
2N2393	Δ♦TII	107 - 31
		TIIF

TYPE No.	MFRS	Pg&Line
2N2394	Δ♦TII	107 - 32
		TIIF
2N2395	Δ♦TII	136-104
		TIIF
2N2396	Δ♦TII	136-105
		TIIF
2N2398	IDC	80 - 23
	PRE	SEI
	SES	♦SPR
2N2399	IDC	80 - 24
	SES	♦SPR
2N2400	IDC	85 - 98
	IDI	♦SPR	257 - 40
2N2401	IDC	85-100
	IDI	SCA	260 - 23
	♦SPR	SSI
2N2402	IDC	86 - 2
	IDI	♦SPR	262 - 21
2N2405	Δ♦RCA	188 - 56
	CEI	CRI
	CSI	CSR
	ESI	FSC
	HSC	IDI
	ITT	KER
	MOTA	NJS
	NTR	♦RTN
	SCA	SDE
	♦SES	SSI
	SST	STI
	TEC	♦VALG
2N2410	CSR	147 - 9
	ETC	♦FSC	260 - 17
	HSC	IDI
	♦MOTA	NJS
	PHIC	RTCF
	RTN	SCA
	SDE	♦SES
	SGAI	SSI
		TIIF
2N2411	CEI	99-106
	CSR	IDI	256 - 40
	NASB	PHIC
	SCA	SLD
	SSI	SST
	TADI	TEC
	TIID	TIIF
2N2412	CEI	99-107
	CSR	IDI	256 - 41
	NASB	PHIC
	SCA	SLD
	SSI	SST
	TADI	TEC
	TIID	TIIF
2N2414	RTN	137 - 98
	SCA	SSI	269 - 53
2N2415	♦MOTA	80 - 71
	SLD	SSI
	SST	TIID
2N2416	♦MOTA	80 - 66
	SLD	SSI
	SST	TIID
2N2417	SLD	276 - 66
	SST	
2N2417A	SLD	276 - 67
	SST	
JAN2N2417A	none	276 - 68
2N2417B	SLD	276 - 69
	SST	
2N2418	SLD	276 - 70
	SST	
2N2418A	SLD	276 - 71
	SST	
JAN2N2418A	none	276 - 72
2N2418B	SLD	276 - 73
	SST	
2N2419	SLD	276 - 74
	SST	
2N2419A	SLD	276 - 75
	SST	
JAN2N2419A	none	276 - 76
2N2419B	SLD	276 - 77
	SST	
2N2420	SLD	276 - 78
	SST	
2N2420A	SLD	276 - 79
	SST	
JAN2N2420A	none	276 - 80
2N2420B	SLD	276 - 81
	SST	
2N2421	SLD	276 - 82
	SST	
2N2421A	SLD	276 - 83
	SST	
JAN2N2421A	none	276 - 84
2N2421B	SLD	276 - 85
	SST	
2N2422	SLD	276 - 86
	SST	
2N2422A	SLD	276 - 87
	SST	
JAN2N2422A	none	276 - 88
2N2422B	SLD	276 - 89
	SST	
2N2423	CSR	171 - 37
	GPD	♦SES
2N2424	IDI	104-110
	SCA	SSI	244 - 53
		♦TCY
2N2425	IDI	104-109
	SCA	SSI	243 - 69
		♦TCY
2N2427	Δ♦TEC	137 - 99
	CEI	IDI
	SCA	SSI

TYPE No.	MFRS	Pg&Line
2N2428	Δ♦APX	86 - 57
	♦NPC	PHIC
2N2429	Δ♦APX	86 - 59
	♦NPC	PHIC
2N2430	Δ♦APX	93 - 21
	♦NPC	PHIC
		SST
2N2431	Δ♦APX	88 - 67
	♦NPC	PHIC
		SST
2N2431MP	♦APX	269 - 54
		PHIC
2N2432	Δ♦TII	124 - 35
	CSR	RTN	277 - 91
	SLD	SST
	TADI	♦TCY
	TEC	TIIF
JAN2N2432	TCY	124 - 77
	TEC	TII
2N2432A	Δ♦TII	124 - 36
	SLD	SST	277 - 92
	TADI	♦TCY
	TEC	TIIF
JAN2N2432A	TCY	124 - 78
	TEC	TII
2N2433	SCA	138 - 38
		SSI
2N2434	SCA	138 - 45
		SSI
2N2435	SCA	138 - 39
	SSI	TEC
2N2436	SCA	138 - 46
	SSI	TEC
2N2437	SCA	138 - 32
	SSI	TEC
2N2438	SCA	138 - 40
	SSI	TEC
2N2439	PRE	138 - 47
	SCA	SEI
	SSI	TEC
2N2440	IDI	146 - 23
	SCA	SSI
2N2443	Δ♦FSC	145 - 29
	IDI	SCA
	SSI	TEC
2N2444	CSR	168-107
	GPD	SSI
2N2445	CSR	170 - 86
		GPD
2N2451	ΔSPR	78 - 63
	IDC	280 - 95
2N2452	SGAI	274 - 8
2N2453	Δ♦TSC	117 - 68
	CRI	CSR	269 - 55
	INL	♦MOTA
	NSC	NTR
	♦RTN	SCA
	SGAI	SLD
	SSI	SST
	TADI	♦TII
		TIIF
2N2453A	Δ♦TSC	117 - 69
	INL	♦MOTA	269 - 56
	NSC	NTR
	RTN	SCA
	SLD	SSI
	SST	TADI
		TIIF
2N2455	SSI	86 - 35
		266 - 58
2N2456	SSI	86 - 46
		267 - 19
2N2459	SCA	135 - 99
	SSI	
2N2460	SCA	135-107
	SSI	
2N2461	SCA	136 - 4
	SSI	
2N2462	SCA	136 - 9
	SSI	
2N2463	IDI	138 - 56
	SCA	SSI
		TEC
2N2464	IDI	138 - 76
	SCA	SSI
	STI	TEC
2N2465	IDI	138 - 91
	SCA	SSI
		TEC
2N2466	IDI	138 - 96
	SCA	SSI
		TEC
2N2474	Δ♦TCY	268 - 20
		SCA
2N2475	CRI	129 - 2
	CSR	ETC	266 - 54
	♦FERB	♦FSC
	NJS	♦PHIN
	PRE	RTCF
	SCA	SEI
	SGAI	TADI
	♦TEC	TIIF
2N2476	CEI	141-105
	CSR	♦ETC	260-106
	♦FERB	♦FSC
	HSC	IDC
	IDI	♦MOTA
	NJS	RTN
	SCA	SDE
	♦SES	♦SPR
2N2477	CEI	141-106
	CSR	♦ETC	260-107
	♦FERB	♦FSC
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TYPE No.	MFRS	Pg&Line
2N2477		
(cont.)	HSC	
IDC	IDI	
♦MOTA	NJS	
RTN	SCA	
SDE	♦SES	
	♦SPR	
2N2478	♦ETC	141- 90
	NJS	260- 28
2N2479	CRI	141- 80
CSI	CSR	257- 46
♦ETC	NJS	
NTR	RTN	
SDE	♦SES	
	TADI	
2N2480	ITT	124-100
♦MOTA	NTR	269- 57
♦RTN	SCA	
SES	SSI	
TADI	♦TSC	
2N2480A	CSR	124-101
ITT	♦MOTA	269- 58
NTR	♦RTN	
SCA	SES	
SSI	TADI	
	TSC	
2N2481	△♦MOTA	134- 24
CRI	CSI	263- 21
CSR	ETC	
FSC	HSC	
IDI	ITT	
NJS	♦RTN	
SCA	SDE	
♦SES	SLD	
SST	TADI	
JAN2N2481	MOTA	134- 25
	RTN	263- 72
2N2482	STI	92- 96
2N2483	△♦FSC	133- 19
CSI	CSR	
ELMA	ETIF	
HZN	IDI	
♦ITT	♦MEHK	
MISI	MOTA	
NASB	NJS	
♦NTLB	NTR	
PHIC	♦PHIN	
♦RTCF	♦RTN	
SCA	SDE	
♦SES	SGAI	
SLD	SST	
TADI	THCF	
♦TII	TIIB	
TIID	TIIF	
♦TSC	UPI	
	♦VALG	
2N2484	△FSC	133- 20
CEI	CSI	
CSR	ELMA	
ESI	ETIF	
HZN	IDC	
IDI	♦ITT	
♦MEHK	MISI	
MOTA	NASB	
NJS	♦NSC	
♦NTLB	NTR	
PHIC	♦PHIN	
PRE	♦RTCF	
♦RTN	SCA	
SDE	SEI	
SES	SGAI	
SLD	SST	
TADI	THCF	
♦TII	TIIB	
TIID	TIIF	
♦TSC	UPI	
	♦VALG	
JAN2N2484	RTN	133- 21
TEC	TSC	
2N2484A	△♦TSC	133- 5
CSI	CSR	
ITT	NTR	
RTN	SDE	
♦SES	TIIF	
2N2487	△SPR	80- 2
IDC	IDI	
SCA	SSI	
2N2488	△SPR	80- 3
IDC	IDI	
KER	SCA	
	SSI	
2N2489	△SPR	79-106
IDC	IDI	
SCA	SSI	
2N2489A	SLD	112- 4
	SST	
2N2490	CSR	172- 35
♦DEL	♦ETC	237- 93
GPD	♦MOTA	
NJS	SLD	
SST	STC	
	UTS	
2N2491	CSR	172- 36
♦DEL	GPD	237- 94
♦MOTA	NJS	
SLD	SST	
STC	UTS	
2N2492	CSR	172- 37
♦DEL	GPD	237- 95
♦MOTA	NJS	
SLD	SST	
STC	UTS	
2N2493	CSR	172- 38
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2493		
(cont.)	GPD	237- 96
♦MOTA	NJS	
SLD	SST	
STC	UTS	
2N2496	PHIC	81- 80
2N2497	△♦TII	152- 28
INL	NTR	
♦SIX	SLD	
♦SODI	TIIB	
TIID	TIIF	
JAN2N2497	none	152- 29
2N2498	△♦TII	152- 30
INL	♦PHIN	
♦SIX	SLD	
♦SODI	TIIB	
TIID	TIIF	
	TSC	
JAN2N2498	TII	152- 31
2N2499	△♦TII	152- 32
INL	♦SIX	
SLD	♦SODI	
TIIB	TIID	
TIIF	TSC	
JAN2N2499	none	152- 33
2N2500	△♦TII	152- 34
INL	SLD	
♦SODI	TIIB	
TIID	TIIF	
JAN2N2500	none	152- 35
2N2501	△♦MOTA	134- 53
CEI	CSR	264- 47
HSC	IDI	
SCA	SES	
SSI	TEC	
2N2509	△♦TSC	133- 7
CSI	CSR	
♦FSC	IDI	
♦ITT	MEHK	
NASB	NJS	
NSC	NTR	
RTN	SCA	
SDE	♦SES	
SLD	SST	
STI	TADI	
	UPI	
2N2510	△♦TSC	133- 8
CSI	CSR	
♦FSC	IDI	
♦ITT	MEHK	
NASB	NJS	
♦NSC	NTR	
PHIC	PRE	
RTN	SCA	
SDE	SEI	
♦SES	SLD	
SST	STI	
	TADI	
2N2511	△♦TSC	133- 9
CSI	CSR	
♦FSC	IDI	
♦ITT	MEHK	
NASB	NJS	
♦NSC	NTR	
PHIC	PRE	
RTN	SCA	
SDE	SEI	
♦SES	SLD	
SST	STI	
TADI	TEC	
2N2514	SCA	135- 63
SES	SSI	
2N2515	SCA	135- 85
SES	SSI	
2N2516	SCA	135- 98
SES	SSI	
2N2517	SES	135- 64
2N2518	SCA	135- 86
SES	SSI	
2N2519	SCA	135-100
SES	SSI	
2N2520	SCA	135- 81
SES	SSI	
2N2521	SCA	135- 82
SES	SSI	
2N2522	SCA	135- 83
SES	SSI	
2N2523	SCA	135- 93
SES	SSI	
2N2524	NSC	135- 94
SCA	SES	
	SSI	
2N2525	SCA	201-101
SES	SSI	
2N2526	△♦MOTA	168-108
CSR	GPD	236- 67
	SES	
2N2527	△♦MOTA	168-109
CSR	GPD	236- 68
	SES	
2N2528	△♦MOTA	168-110
CSR	GPD	236- 69
	SES	
JAN2N2528	MOTA	235- 61
2N2529	STI	114- 26
2N2530	STI	114- 34
2N2531	STI	114- 41
2N2532	STI	114- 46
2N2533	STI	114- 35
2N2534	STI	114- 49
2N2537	△♦MOTA	147- 29
CRI	CSR	261- 68
ETC	HSC	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2537		
(cont.)	IDC	
IDI	NJS	
♦RTN	SCA	
SSI	STI	
TADI	♦TII	
TIID	TIIF	
2N2538	△♦MOTA	147- 30
CRI	CSR	261- 69
ETC	HSC	
IDC	IDI	
NJS	♦RTN	
SCA	SSI	
TADI	♦TII	
TIIB	TIID	
2N2539	△♦MOTA	139- 16
CEI	♦ETC	261- 70
HSC	IDI	
NJS	♦RTN	
SCA	SSI	
TADI	♦TII	
TIIB	TIID	
	TIIF	
2N2540	△♦MOTA	139- 17
CRI	CSR	261- 71
♦ETC	HSC	
IDI	NJS	
♦RTN	SCA	
SSI	STI	
TADI	♦TII	
TIIB	TIID	
	TIIF	
2N2541	△RTN	88- 41
CSR	IDI	243- 22
SSI	STI	
2N2551	IDI	105- 8
SCA	SES	
SLD	SST	
	STI	
2N2552	△♦TII	165- 58
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	TIID	
2N2553	△♦TII	165- 59
GPD	♦MOTA	
♦SES	SLD	
SST	♦STC	
	TIID	
JAN2N2553	STC	90- 74
	TII	
2N2554	△♦TII	165- 60
CSR	GPD	
KER	♦MOTA	
♦SES	SLD	
SST	♦STC	
STI	TIID	
JAN2N2555	STC	90- 75
	TII	
2N2556	△♦TII	165- 62
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
	TIID	
2N2557	△♦TII	165- 63
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
	TIID	
JAN2N2557	STC	164- 46
	TII	
2N2558	△♦TII	165- 64
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
	TIID	
2N2559	△♦TII	165- 65
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
	TIID	
JAN2N2559	STC	164- 47
	TII	
2N2560	△♦TII	165- 66
CSR	GPD	
♦MOTA	PRE	
SEI	♦SES	
SLD	SST	
♦STC	STI	
2N2561	△♦TII	165- 67
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
2N2562	△♦TII	165- 68
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
2N2563	△♦TII	165- 69
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	

TYPE No.	MFRS	Pg&Line
2N2564	△♦TII	165- 70
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
2N2565	△♦TII	165- 71
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
2N2566	△♦TII	165- 72
CSR	GPD	
♦MOTA	♦SES	
SLD	SST	
♦STC	STI	
2N2567	△♦TII	165- 73
CRI	CSR	
GPD	♦MOTA	
♦SES	SLD	
SST	♦STC	
	STI	
2N2569	PHIC	125- 75
PHIN	SLD	277- 93
2N2570	PHIC	125- 76
PHIN	TEC	277- 94
2N2580	△♦DEL	227- 86
SLD	SPC	239-105
	SST	
2N2580M	SLD	227- 87
SPC	SST	239-102
2N2581	△♦DEL	227- 88
PTI	SLD	239-106
SPC	SST	
2N2582	△♦DEL	227- 89
SLD	SPC	239-107
	SST	
2N2583	△♦DEL	227- 90
PTI	SLD	239-108
SPC	SST	
2N2586	△♦TII	124- 94
CRI	CSI	
CSR	IDI	
♦ITT	MEHK	
NASB	NSC	
NTR	PRE	
RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	SSI	
SST	TADI	
TIID	TIIF	
2N2590	SCA	106- 17
	SSI	
2N2591	CSR	106- 36
SCA	SSI	
2N2592	CSR	106- 39
SCA	SSI	
2N2593	CSR	106- 65
SCA	SSI	
2N2594	CSR	192- 69
IDI	SDE	
SSI	TEC	
2N2595	CSR	105-106
SCA	SES	
	SSI	
2N2596	CSR	106- 2
SCA	SES	
	SSI	
2N2597	CSR	106- 25
SCA	SES	
	SSI	
2N2598	CSR	105-107
SCA	SES	
	SSI	
2N2599	CSR	106- 3
SCA	SES	
	SSI	
2N2599A	CSR	106- 4
SCA	SES	
	SSI	
2N2600	CSR	106- 26
SCA	SES	
	SSI	
2N2600A	SCA	106- 27
SES	SSI	
2N2601	CSR	105-100
SCA	SES	
	SSI	
2N2602	CRI	106- 5
CSR	SCA	
SES	SSI	
2N2603	CRI	106- 28
CSR	SCA	
SES	SSI	
2N2604	CSI	105-108
CSR	HZN	
MEHK	NASB	
♦NSC	NTR	
♦RTN	SCA	
SDE	♦SES	
SLD	SSI	
SST	TADI	
♦TII	TIIB	
TIID	TIIF	
JAN2N2604	NSC	105-109
	RTN	
2N2605	CRI	105-110
CSI	CSR	
HZN	MEHK	
NASB	♦NSC	
NTR	PRE	
♦RTN	SCA	
SDE	SEI	
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TYPE No.	MFRS	Pg&Line
2N2605		
(cont.)	♦SES	
SLD	SSI	
SST	TADI	
♦TII	TIIB	
TIID	TIIF	
JAN2N2605	NSC	106- 1
	RTN	
2N2605A	HZN	106- 13
PRE	SCA	
SEI	SSI	
	TADI	
2N2606	△♦SIX	150- 85
ESI	♦INL	
TIID	♦TSC	
JAN2N2606	SIX	150- 86
	TSC	
2N2607	△♦SIX	150- 87
♦INL	♦SODI	
TIID	♦TSC	
JAN2N2607	SIX	150- 88
	TSC	
2N2608	△♦SIX	150- 89
♦INL	NSC	
♦SODI	♦TII	
TIID	♦TSC	
JAN2N2608	SIX	150- 90
	TSC	
2N2609	△♦SIX	150- 91
ESI	♦INL	
NSC	PRE	
SEI	♦SODI	
♦TII	TIID	
	♦TSC	
JAN2N2609	SIX	150- 92
	TSC	
2N2610	SCA	113- 76
	SSI	
2N2611	SCA	198- 85
	SSI	
2N2612	CSR	169- 1
GPD	♦SES	
2N2613	ESI	82- 80
♦NPC	♦SES	
2N2614	♦NPC	82- 81
PRE	SEI	
2N2615	CSR	128- 98
IDI	SCA	
	SSI	
2N2616	CRI	129- 3
CSR	IDI	
SCA	SSI	
	TADI	
2N2617	PHIC	122- 21
2N2630	MOTA	90- 23
	SSI	262- 78
2N2631	△♦RCA	201- 33
CEI	CSR	
IDI	KER	
SCA	TII	
	TIIB	
JAN2N2631	none	196- 74
2N2632	CSR	209- 55
GSE	KER	244- 81
SCA	SSI	
	TEC	
2N2633	CSR	209- 56
GSE	KER	244- 82
SCA	SSI	
	TEC	
2N2634	CSR	209- 57
GSE	KER	244- 83
SCA	SSI	
	TEC	
2N2635	IDI	85- 99
♦MOTA	SLD	256- 66
SSI	SST	
	TIID	
2N2636	CSR	170- 87
	GPD	235- 11
2N2637	CSR	170- 88
	GPD	235- 12
2N2638	CSR	170- 89
	GPD	235- 13
2N2639	△♦TII	124- 66
CRI	CSR	269- 59
♦FSC	INL	
♦MOTA	♦NSC	
NTR	PRE	
♦RTN	SCA	
SEI	SES	
SLD	SSI	
SST	TADI	
TIIB	TIID	
TIIF	♦TSC	
JAN2N2639	MOTA	124- 72
		269- 60
2N2640	△♦TII	124- 67
CRI	CSR	269- 61
♦FSC	INL	
♦MOTA	♦NSC	
NTR	PRE	
♦RTN	SCA	
SEI	SES	
SLD	SSI	
SST	TADI	
TIIB	TIID	
TIIF	♦TSC	
	UPI	
2N2641	△♦TII	124- 68
CRI	CSR	279- 9
♦FSC	INL	
♦MOTA	♦NSC	
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TYPE No.	MFRS	Pg&Line
2N2641 (cont.)	NTR	
	PRE	♦RTN
	SCA	SEI
	SES	SGAI
	SLD	SSI
	SST	TADI
	TIIB	TIID
	TIIF	♦TSC
		UPI
2N2642	△♦TII	124 - 69
	CRI	CSR	269 - 62
	♦FSC	INL
	♦MOTA	♦NSC
	NTR	PRE
	♦RTN	SCA
	SEI	SES
	SGAI	SLD
	SSI	SST
	TADI	TIIB
	TIID	TIIF
	♦TSC	UPI
JAN2N2642	MOTA	124 - 73
	TII	TSC	269 - 63
2N2643	△♦TII	124 - 70
	CRI	CSR	269 - 64
	♦FSC	INL
	♦MOTA	♦NSC
	NTR	♦RTN
	SCA	SES
	SLD	SSI
	SST	TADI
	TIIB	TIID
	TIIF	♦TSC
		UPI
2N2644	△♦TII	124 - 71
	CRI	CSR	279 - 10
	♦FSC	INL
	♦MOTA	♦NSC
	NTR	♦RTN
	SCA	SES
	SLD	SSI
	SST	TADI
	TIIB	TIID
	TIIF	♦TSC
		UPI
2N2645	CRI	137 - 100
	CSI	CSR
	IDI	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	TADI
2N2646	△♦GESY	276 - 90
	ESI	♦MOTA
	♦NPC	PRE
	SEI	SES
	SLD	SSCF
	SST	♦TII
	UPI	♦VALG
2N2647	△♦GESY	276 - 91
	ESI	♦MOTA
	♦NPC	PRE
	SEI	SES
	SLD	SSCF
	SST	♦TII
		UPI
2N2648	CSR	90 - 15
	IDI	243 - 52
2N2651	CSR	134 - 54
	♦ETC	IDI	266 - 59
	NJS	SCA
		SSI
2N2652	♦MOTA	125 - 12
	NTR	♦RTN	269 - 65
	SES	SSI
		TADI
2N2652A	♦MOTA	125 - 13
	NTR	♦RTN	269 - 66
	SES	SSI
		TADI
2N2655	SCA	198 - 86
2N2657	△♦SOD	195 - 12
	♦AMC	CRI	244 - 84
	CSR	GSE
	IDI	KER
	NASB	♦NSC
	NTR	PPC
	SCA	SDE
	SSI	♦STC
	STI	TRW
		♦UNI
2N2658	△♦SOD	195 - 13
	♦AMC	CSR	244 - 85
	GSE	IDI
	KER	NASB
	♦NSC	NTR
	PPC	SCA
	SDE	SES
	SSI	♦STC
	TRW	♦UNI
2N2659	△♦TII	165 - 5
	GPD	SES
		STC
2N2660	△♦TII	165 - 6
	GPD	SES
	SLD	SST
		STC
2N2661	△♦TII	165 - 7
	GPD	SES
	SLD	SST
		STC
2N2662	△♦TII	165 - 8
	GPD	SES
	SLD	SST
		STC
2N2663	△♦TII	165 - 9
	GPD	SES
	SLD	SST
		STC
2N2664	△♦TII	165 - 10
	GPD	SES
	SLD	SST
		STC
2N2665	△♦TII	165 - 11
	GPD	SES
	SLD	SST
		♦STC
2N2666	△♦TII	165 - 12
	GPD	SES
	SLD	SST
		♦STC
2N2667	△♦TII	165 - 13
	GPD	SES
	SLD	SST
		♦STC
2N2668	△♦TII	165 - 14
	GPD	SES
	SLD	SST
		♦STC
2N2669	△♦TII	165 - 15
	GPD	SES
	SLD	SST
		♦STC
2N2670	△♦TII	165 - 16
	GPD	SES
	SLD	SST
		♦STC
2N2691	CSR	170 - 90
	GPD	238 - 39
2N2691A	CSR	172 - 39
	GPD	239 - 8
2N2692	IDI	125 - 56
	SCA	SSI	252 - 96
		TADI
2N2693	IDI	124 - 91
	SCA	SSI	250 - 75
		TADI
2N2694	IDI	124 - 92
	SCA	SSI	250 - 76
		TADI
2N2695	△♦FSC	103 - 80
	CSI	CSR	254 - 42
	HZN	MOTA
	NTR	RTN
	SCA	SDE
	♦SES	SSI
	TADI	TEC
2N2696	△♦FSC	103 - 81
	CSI	CSR	254 - 43
	HZN	ITT
	♦MOTA	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	TADI	TEC
		TIIB
2N2697	CSR	201 - 34
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	ESI	♦ETC
	FERB	HZN
	IDI	NJS
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	♦SCA	SDE
	♦SES	SSI
	TADI	TRW
		♦TSC
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	IDC	NTR
	♦SES	SLD
	♦SPR	SST
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	NSC	NTR
	♦SES	SLD
	♦SPR	SST
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	MISI	NTR
	♦SES	SLD
	♦SPR	SST
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	MISI	NSC
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	SLD	♦SPR
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	SLD	SSI
	SST	TADI
		♦TSC
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		SSI
2N2724	♦FSC	281 - 101
	RTN	SSI
2N2725	♦FSC	281 - 102
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		SSI
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	SES	SSI
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2N2740	KER	229 - 62
	SCA	SEN	235 - 72
	SES	SPC
	SSI	STC
2N2741	KER	229 - 63
	SCA	SEN	235 - 73
	SES	SPC
	SSI	STC
2N2742	KER	229 - 64
	SCA	SEN	235 - 74
	SES	SPC
	SSI	STC
2N2743	SCA	229 - 65
	SEN	SSI	235 - 75
		STC
2N2744	SCA	229 - 66
	SEN	SSI	235 - 76
		STC
2N2745	SCA	229 - 67
	SEN	SES	235 - 77
	SPC	SSI
		STC
2N2746	SCA	229 - 68
	SEN	SES	235 - 78
	SPC	SSI
		STC
2N2747	SCA	229 - 69
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2N2750	SEN	229 - 72
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2N2751	SCA	229 - 73
	SEN	SES	236 - 7
	SPC	SSI
		STC
2N2752	KER	229 - 74
	SCA	SEN	236 - 8
	SES	SPC
	SSI	STC
2N2753	KER	229 - 75
	SEN	SES	236 - 9
	SPC	SSI
		STC
2N2754	SEN	229 - 76
	SES	SSI	236 - 10
		STC
2N2755	SSI	229 - 77
		236 - 11
2N2756	SSI	229 - 78
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2N2757	△♦WESY	229 - 79
	IDI	KER	235 - 83
	PTI	SCA
	SES	SPC
	SSI	♦STC
2N2758	△♦WESY	229 - 80
	IDI	PTI	235 - 84
	SCA	SES
	SPC	SSI
		♦STC
2N2759	△♦WESY	229 - 81
	IDI	PTI	235 - 85
	SCA	SES
	SPC	SSI
		♦STC
2N2760	△♦WESY	229 - 82
	IDI	PTI	235 - 86
	SCA	SES
	SPC	SSI
		♦STC
2N2761	IDI	229 - 83
	KER	SCA	235 - 87
	SES	SPC
	SSI	♦STC
2N2762	IDI	229 - 84
	SSI	235 - 88
2N2763	△♦WESY	229 - 85
	IDI	PTI	235 - 89
	SCA	SES
	SPC	SSI
		♦STC
2N2764	△♦WESY	229 - 86
	IDI	PTI	235 - 90
	SCA	SES
	SPC	SSI
		♦STC
2N2765	△♦WESY	229 - 87
	IDI	PTI	235 - 91
	SCA	SES
	SPC	SSI
		♦STC
2N2766	△♦WESY	229 - 88
	IDI	PTI	235 - 92
	SCA	SES
	SPC	SSI
		♦STC
2N2767	IDI	229 - 89
	SCA	SSI	235 - 93
2N2768	IDI	229 - 90
	SCA	SSI	235 - 94
2N2769	△♦WESY	229 - 91
	IDI	PTI	236 - 13
	SCA	SES
	SPC	SSI
		♦STC
2N2770	△♦WESY	229 - 92
	IDI	KER	236 - 14
	PTI	SCA
	SES	SPC
	SSI	♦STC
2N2771	△♦WESY	229 - 93
	IDI	PTI	236 - 15
	SCA	SES
	SPC	SSI
		♦STC
2N2772	△♦WESY	229 - 94
	IDI	PTI	236 - 16
	SES	SPC
	SSI	STC
2N2773	IDI	229 - 95
	SSI	236 - 17
2N2774	IDI	229 - 96
	SSI	236 - 18
2N2775	△♦WESY	229 - 97
	IDI	PTI	236 - 46
	SES	SPC
	SSI	STC
2N2776	△♦WESY	229 - 98
	IDI	PTI	236 - 47
	SES	SPC
	SSI	STC
2N2777	△♦WESY	229 - 99
	IDI	PTI	236 - 48
	SES	SPC
	SSI	STC
2N2778	△♦WESY	229 - 100
	IDI	PTI	236 - 49
	SES	SPC
	SSI	STC
2N2779	SSI	229 - 101
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	SSI	♦TEC
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	RTN
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	NJS	SCA
		SSI
2N2788	CEI	147 - 32
	ETC	IDI	261 - 100
	MOTA	NJS
	SCA	SSI
2N2789	CEI	147 - 33
	CRI	♦ETC	261 - 101
	IDI	MOTA
	NJS	SCA
		SSI
2N2790	IDI	139 - 18
	MOTA	SCA	261 - 102
		SSI
2N2791	♦ETC	139 - 19
	IDI	MOTA	261 - 103
	NJS	PPC
	SCA	SSI
2N2792	♦ETC	139 - 20
	IDI	MOTA	261 - 104
	NJS	SCA
		SSI
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	IDC	IDI	265 - 42
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	IDC	IDI	265 - 43
2N2800	△♦MOTA	110 - 77
	CEI	CRI	255 - 73
	CSI	CSR
	IDI	ITT
	NTR	PRE
	♦RTN	SCA
	SDE	SEI
	♦SES	SSI
	SST	STI
		TADI
2N2800/46	SCA	106 - 66
		255 - 74
2N2801	△♦MOTA	110 - 78
	CEI	CRI	255 - 75
	CSI	CSR
	FSC	IDI
	ITT	NTR
	PRE	♦RTN
	SCA	SDE
	SEI	♦SES
	SSI	SST
	STI	TADI
		TIIF
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	RTN	SEI
	SSI	STI
	TADI	TIIB
		TIIF
2N2803	△♦TII	97 - 88
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	SSI	TADI
	TIIB	TIIF
2N2804	△♦TII	97 - 89
	NTR	RTN	279 - 12
	SSI	TADI
	TIIB	TIIF
2N2805	△♦TII	97 - 90
	NTR	RTN	269 - 73
	SSI	TADI
	TIIB	TIIF
2N2806	△♦TII	97 - 91
	CRI	NTR	269 - 74
	RTN	SSI
	TADI	TIIB
		TIIF
2N2807	△♦TII	97 - 92
	CRI	NTR	279 - 13
	RTN	SSI
	TADI	TIIB
		TIIF
2N2811	△SOD	212 - 85
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	GSE	IDI
	KER	PPC
	SCA	SDE
	SES	SSI
	STC	TEC
	TRW	♦UNI
2N2812	△SOD	212 - 86
	♦AMC	CRI
	CSR	GSE
	IDI	KER
	PPC	SCA
	SDE	SES
	SSI	STC
	TEC	TRW
		♦UNI
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	TEC	253 - 23
2N2813	△SOD	212 - 87
	♦AMC	CRI
	CSR	GSE
	IDI	KER
	PPC	SCA
	SDE	SES
	SSI	STC
	TEC	TRW
		♦UNI
2N2814	△SOD	212 - 88
	♦AMC	CRI
	CSR	GSE
	IDI	KER
	PPC	SCA
	SDE	SES
	SLD	SSI
	SST	STC
	TEC	TRW
		♦UNI

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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MISI	NJS	
PTI	SCA	
♦SES	♦SPC	
SSI	THCF	
2N2816	△♦STC	225- 69
CSR	♦ETC	
IDI	KER	
MISI	NJS	
PTI	SCA	
♦SES	♦SPC	
SSI	THCF	
2N2817	△♦STC	225- 70
ETC	IDI	
KER	MISI	
NJS	PTI	
SCA	♦SES	
♦SPC	SSI	
	THCF	
2N2818	△♦STC	225- 71
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KER	MISI	
NJS	PTI	
SCA	♦SES	
♦SPC	SSI	
	THCF	
2N2819	△♦STC	225- 72
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MISI	PTI	
SCA	♦SES	
SPC	SSI	
	THCF	
2N2820	△♦STC	225- 73
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MISI	PTI	
SCA	♦SES	
SPC	SSI	
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2N2821	△♦STC	225- 74
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MISI	PTI	
SCA	♦SES	
SPC	SSI	
	THCF	
2N2822	△♦STC	225- 75
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MISI	PTI	
SCA	♦SES	
SPC	SSI	
	THCF	
2N2823	△♦STC	225- 76
IDI	KER	
MISI	PTI	
SCA	♦SES	
SPC	SSI	
	THCF	
2N2824	△♦STC	225- 77
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MISI	PTI	
SCA	♦SES	
SPC	SSI	
	THCF	
2N2825	△♦STC	225- 78
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MISI	PTI	
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SPC	SSI	
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KER	PPC	
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SLD	SPC	
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PPC	SCA	
♦SES	SLD	
SPC	SSI	
SST	UNI	
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2N2833	△♦MOTA	169- 3
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JAN2N2834	none	169- 5
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2N2836	CSR	166- 85
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ITT	NJS	
NTR	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SSI	
SST	STI	
TADI	UPI	
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ITT	NJS	
NTR	♦RTN	
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♦SES	SLD	
SSI	SST	
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KER	♦MOTA	
NJS	RTN	
SCA	SGAI	
SSI	TADI	
	TIIF	
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IDI	♦MOTA	
NJS	NPC	
RTN	SCA	
SGAI	SSI	
TADI	TIIF	
2N2847	CSR	133- 84
ETC	HZN	260-108
IDI	♦MOTA	
NJS	RTN	
SCA	SGAI	
SSI	TADI	
	TIIF	
2N2848	CEI	147- 35
CSR	ETC	260-109
HSC	HZN	
IDI	♦MOTA	
NJS	RTN	
SCA	SGAI	
SSI	TADI	
	TIIF	
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SSI	TRW	
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SST	TRW	
2N2851-1	GSE	148- 5
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SOD	SSI	
	UNI	
2N2851-2	GSE	198- 90
	UNI	247- 5
2N2851-3	SCA	202- 97
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2N2852	△♦UNI	148- 14
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SLD	SSI	
SST	TRW	
2N2852-1	GSE	148- 6
IDI	PPC	247- 8
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SOD	SSI	
	UNI	
2N2852-2	GSE	198- 91
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2N2853	△♦UNI	148- 15
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SSI	TRW	
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SSI	UNI	
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SSI	TRW	
2N2854-1	GSE	148- 8
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2N2854-2	GSE	198- 94
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2N2854-3	SCA	202-100
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2N2855	△♦UNI	148- 17
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SST	TRW	
2N2855-1	GSE	148- 9
IDI	PPC	247- 20
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SOD	SSI	
	UNI	
2N2855-2	GSE	198- 95
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2N2855-3	SCA	202-101
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2N2856	△♦UNI	148- 18
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SST	TRW	
2N2856-1	GSE	148- 10
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SOD	SSI	
	UNI	
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FSC	IDI	
♦KMC	♦MOTA	
NSC	PHIC	
♦RCA	RTCF	
SCA	SES	
SSI	TADI	
	♦TSC	
JAN2N2857	MOTA	120- 36
	RCA	
2N2858	△♦STC	140- 55
AMC	IDI	239- 41
SCA	♦SES	
SPC	SSI	
STI	TEC	
	UNI	
JAN2N2858	none	200- 58
		242- 52
2N2859	△♦STC	140- 56
AMC	IDI	239- 42
SCA	♦SES	
SPC	SSI	
STI	TEC	
	UNI	
JAN2N2859	none	200- 59
		242- 53
2N2861	CEI	99- 47
CSI	CSR	
IDI	RTN	
SCA	SDE	
♦SES	TADI	
TIID	UPI	
2N2862	CEI	99- 44
CSI	CSR	
IDI	RTN	
SCA	SDE	
♦SES	TADI	
TIID	UPI	
2N2863	TADI	146- 94
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TIIF	UPI	
2N2864	TADI	146- 95
TEC	TIID	
TIIF	UPI	
2N2865	CSI	119- 83
CSR	♦ETC	
IDI	NJS	
NTR	RTN	
SCA	SDE	
♦SES	SSI	
TIID	TIIF	
♦TSC	UPI	
2N2866	△♦TEC	209- 33
SCA	SLD	
SSI	SST	
	UPI	
2N2867	△♦TEC	209- 34
SCA	SLD	
SSI	SST	
	UPI	
2N2868	CSI	145- 30
CSR	ETC	
♦FSC	IDI	
ITT	NJS	
NTR	RTN	
SCA	SDE	
♦SES	SLD	
SST	UPI	
2N2869	CSR	167- 16
GPD	NJS	
PRE	SEI	
SES	SST	

TYPE No.	MFRS	Pg&Line
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SES	STC	
2N2874	△♦TRW	201- 39
SCA	SSI	
2N2875	△♦TEC	179- 32
	SSI	
2N2876	△♦RCA	196- 75
KER	♦SES	
TII	TIIB	
JAN2N2876	none	201- 40
2N2877	△SOD	210- 5
♦AMC	♦GSE	246-100
IDI	KER	
SCA	SLD	
SSI	SST	
♦STC	TEC	
TRW	UNI	
	UPI	
2N2878	△SOD	210- 6
♦AMC	♦GSE	251- 18
IDI	KER	
♦PPC	SCA	
SLD	SSI	
SST	♦STC	
TEC	TRW	
UNI	UPI	
2N2879	△SOD	210- 7
♦AMC	♦GSE	246-101
IDI	KER	
♦PPC	SCA	
SLD	SSI	
SST	♦STC	
TEC	TRW	
UNI	UPI	
2N2880	△SOD	210- 8
♦AMC	♦GSE	251- 19
IDI	KER	
♦PPC	SCA	
SLD	SSI	
SST	♦STC	
TEC	♦TII	
TIIB	TIID	
TRW	UNI	
	UPI	
JAN2N2880	AMC	210- 9
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2N2881	△♦STC	177- 38
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SSI	♦TCY	
	TEC	
2N2882	△♦STC	177- 39
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SSI	♦TCY	
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2N2883	IDI	147- 76
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2N2884	IDI	147- 77
SCA	SSI	
	TADI	
2N2887	△♦TRW	203- 52
IDI	KER	
	SSI	
2N2890	CSR	145- 31
ETIF	GSE	251- 91
♦IDI	MISI	
NASB	♦NSC	
NTR	PPC	
PRE	SCA	
SEI	SLD	
SSI	SST	
STI	TADI	
TEC	THCF	
TRW	♦UNI	
	UPI	
2N2891	CSR	145- 32
ETIF	GSE	251- 92
♦IDI	KER	
MISI	NASB	
♦NSC	NTR	
PPC	PRE	
SCA	SDE	
SEI	SLD	
SOD	SSI	
SST	STI	
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THCF	TIIF	
TRW	♦UNI	
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2N2892	CRI	205- 69
CSR	GSE	251- 93
IDI	KER	
PPC	PRE	
SCA	SEI	
SLD	SOD	
SSI	SST	
STC	STI	
TEC	TRW	
♦UNI	UPI	
2N2893	CRI	205- 70
CSR	GSE	251- 94
IDI	KER	
PPC	SCA	
SLD	SOD	
SSI	SST	
STC	STI	
TEC	TRW	
♦UNI	UPI	
2N2894	△♦FSC	104- 69
CEI	CRI	265- 5
CSR	♦FERB	
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TYPE No.	MFRS	Pg&Line
2N2894		
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HZN	IDI	
♦ITT	ITTB	
KER	♦MOTA	
NASB	NSC	
NTR	♦PHIC	
RTCF	♦RTN	
SCA	SDE	
♦SES	SGAI	
SLD	SST	
TADI	TEC	
♦TII	TIIB	
TIID	TIIF	
UPI	♦VALG	
2N2894A	△♦FSC	104-100
CSR	HZN	266-104
IDI	ITT	
NASB	NSC	
NTR	♦PHIC	
RTCF	SES	
SLD	SST	
TADI	TIIF	
	♦VALG	
2N2895	△♦RCA	138- 77
CSI	CSR	
IDI	♦MOTA	
NTR	RTN	
SCA	SDE	
♦SES	SSI	
TEC	♦TSC	
	UPI	
2N2896	△♦RCA	138- 78
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IDI	♦MOTA	
NTR	RTN	
SCA	SDE	
♦SES	SSI	
TEC	♦TSC	
	UPI	
2N2897	△♦RCA	138- 57
CSI	CSR	
IDI	♦MOTA	
NTR	RTN	
SCA	SDE	
♦SES	SSI	
TEC	♦TSC	
	UPI	
2N2898	CSI	138- 79
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SCA	SDE	
♦SES	SSI	
TEC	UPI	
2N2899	CSI	138- 80
NTR	RTN	
SCA	SDE	
♦SES	SSI	
TEC	UPI	
2N2900	CSI	138- 58
NTR	RTN	
SCA	SDE	
♦SES	SSI	
TEC	UPI	
2N2903	△♦TSC	117- 70
CRI	CSR	269- 75
INL	♦MOTA	
NSC	NTR	
♦RTN	SCA	
SGAI	SLD	
SSI	SST	
	TADI	
2N2903A	△♦TSC	117- 71
INL	♦MOTA	269- 76
NSC	NTR	
♦RTN	SGAI	
SLD	SSI	
SST	TADI	
2N2904	△♦MOTA	108- 88
♦ALGG	BELI	258-100
CEI	CRI	
CSI	CSR	
ELMA	ETC	
ETIF	♦FSC	
HSC	HZN	
IDC	IDI	
INTG	ITT	
ITTB	KER	
♦MEHK	MISI	
♦MULB	NASB	
NJS	NPC	
♦NSC	♦NTLB	
NTR	PHIC	
♦PHIN	PRE	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	♦SPR	
SST	STI	
TADI	♦TEC	
THCF	♦TII	
TIIB	TIID	
TIIF	♦TSC	
UPI	♦VALG	
JAN2N2904	ITT	108- 89
MOTA	NSC	259- 51
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TEC	TII	
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2N2904A	△♦MOTA	108- 90
♦ALGG	BELI	258-101
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CSR	ELMA	
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
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	INTG	
	ITT	
	ITTB	
	MEHK	
	MISI	
	♦MULB	
	NASB	
	NJS	
	♦NSC	
	♦NTLB	
	NTR	
	PHIC	
	♦PHIN	
	PRE	
	♦RTN	
	SCA	
	SDE	
	SEI	
	♦SES	
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	SLD	
	♦SPR	
	SST	
	STI	
	TADI	
	♦TEC	
	THCF	
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	CSR	
	ELMA	
	ETC	
	ETIF	
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	HZN	
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	IDI	
	INTG	
	ITT	
	ITTB	
	KER	
	♦MEHK	
	MISI	
	♦MULB	
	NASB	
	NJS	
	♦NSC	
	♦NTLB	
	NTR	
	PHIC	
	♦PHIN	
	PRE	
	♦RTN	
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	SEI	
	♦SES	
	SGAI	
	SLD	
	♦SPR	
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	TADI	
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JAN2N2905	ITT	108 - 93
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	ITT	
	ITTB	
	KER	
	MEHK	
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	NASB	
	NJS	
	♦NSC	
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	NASB	
	NJS	
	NPC	
	♦NSC	
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	♦INTG	
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	♦NSC	
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	♦RTN	
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	♦SES	
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	♦INTG	
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	♦MEHK	
	♦MOTA	
	♦NSC	
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	INL	
	♦MEHK	
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	♦NSC	
	NTR	
	♦RTN	
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	SES	
	SGAI	
	SLD	
	♦SODI	
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2N2915	△♦FSC	125 - 16
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	INL	
	♦MEHK	
	♦MOTA	
	NSC	
	NTR	
	♦RTN	
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	SEI	
	SGAI	
	SLD	
	♦SODI	
	SST	
	STI	
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	TIIF	
	♦TSC	
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2N2915A	△♦FSC	125 - 17
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	NTR	
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2N2916	△♦FSC	125 - 18
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	♦MOTA	
	♦NSC	
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	♦NSC	
	NTR	
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	♦TII	
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2N2918	△♦FSC	125 - 21
	CRI	269 - 83
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	♦MOTA	
	♦NSC	
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	♦SODI	
	SST	
	STI	
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	♦TII	
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	TIID	
	TIIF	
	♦TSC	
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2N2919	△♦FSC	125 - 22
	CRI	269 - 84
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	INL	
	♦MEHK	
	♦MOTA	
	♦NSC	
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	SLD	
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2N2922	MISI	116 - 75
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2N2923	△♦GESY	116 - 76
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2N2924	△♦GESY	116 - 77
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2N2925	△♦GESY	116 - 78
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		TEC
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2N2944	△♦TCY	105 - 85
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2N2945	△♦TCY	105 - 78
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	SSI	SST
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	NJS	NTR
	RTN	SCA
	SDE	♦SES
	♦SPR	STI
		TEC
2N2960	CSI	141-109
	IDI	262 - 24
	NTR	RTN
	SCA	SDE
		♦SES
2N2961	CSI	141-110
	CSR	NTR 262 - 25
	RTN	SDE
		♦SES
2N2968	△♦SPR	268 - 21
	IDC	SCA
	SSI	STI
2N2969	△♦SPR	268 - 22
	IDC	SCA
	SSI	STI
2N2970	△♦SPR	268 - 23
	IDC	SCA
	SSI	STI
2N2971	△♦SPR	268 - 24
	IDC	SCA
		STI
2N2972	△♦FSC	122 - 64
	♦MEHK	NSC
	NTR	♦RTN
	SES	SLD
	SSI	SST
	STI	TADI
	♦TII	TIIF
		UPI
2N2973	△♦FSC	122 - 65
	♦MEHK	NSC
	NTR	♦RTN
	SES	SLD
	SSI	SST
	STI	TADI
	♦TII	TIIF
		UPI
2N2974	△♦FSC	122 - 66
	♦MEHK	NSC 269 - 92
	NTR	♦RTN
	SLD	SSI
	SST	STI
	TADI	♦TII
	TIIF	UPI
2N2975	△♦FSC	122 - 67
	CRI	♦MEHK 269 - 93
	NSC	NTR
	♦RTN	SES
	SLD	SSI
	SST	STI
	TADI	♦TII
	TIIF	UPI
2N2976	△♦FSC	122 - 68
	CRI	CSR 269 - 94
	NSC	NTR
	♦RTN	SLD
	SSI	SST
	STI	TADI
	♦TII	TIIF
		UPI
2N2977	△♦FSC	122 - 69
	CSR	NSC 269 - 95
	NTR	♦RTN
	SLD	SSI
	SST	STI
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TYPE No.	MFRS	Pg&Line
2N2977		
(cont.)	TADI	
	♦TII	TIIF
		UPI
2N2978	△♦FSC	122 - 70
	CRI	CSR 269 - 96
	♦MEHK	NSC
	NTR	♦RTN
	SLD	SSI
	SST	STI
	TADI	♦TII
	TIIF	UPI
2N2979	△♦FSC	122 - 71
	CRI	CSR 269 - 97
	♦MEHK	NSC
	NTR	♦RTN
	SES	SLD
	SSI	SST
	STI	TADI
	♦TII	TIIF
		UPI
2N2980	♦MEHK	122 - 72
	NTR	RTN 269 - 98
		SSI
2N2981	♦MEHK	122 - 62
	NTR	RTN 269 - 99
	SCA	SSI
2N2982	♦MEHK	122 - 63
	NTR	RTN 269 -100
	SCA	SGAI
		SSI
2N2983	CSR	189 - 44
	GSE	IDI
	KER	SCA
	SDE	SSI
	TEC	UNI
2N2984	CSR	189 - 45
	GSE	IDI
	KER	SCA
	SDE	SOD
	SSI	TEC
		UNI
2N2985	CSR	189 - 46
	GSE	IDI
	KER	SCA
	SDE	SOD
	SSI	TEC
		UNI
2N2986	CSR	189 - 47
	GSE	IDI
	KER	SCA
	SDE	SOD
	SSI	TEC
		UNI
2N2987	△♦TII	188 - 57
	CSR	GSE
	IDI	KER
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	TEC
	TIIB	TIIF
		UNI
2N2988	△♦TII	188 - 58
	CSR	GSE
	IDI	PPC
	SCA	SDE
	SLD	SOD
	SSI	SST
	STI	TEC
	TIIB	TIIF
		UNI
2N2989	△♦TII	188 - 59
	CSR	GSE
	IDI	PPC
	SCA	SDE
	SLD	SOD
	SSI	SST
	STI	TEC
	TIIB	TIIF
		UNI
2N2990	△♦TII	188 - 60
	CSR	GSE
	IDI	KER
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STI
	TEC	TIIB
	TIIF	UNI
2N2991	△♦TII	189 - 92
	SCA	SLD
	SOD	SSI
	SST	STI
	TEC	TIIB
	TIIF	UNI
2N2992	△♦TII	189 - 93
	SCA	SLD
	SOD	SSI
	SST	STI
	TEC	TIIB
	TIIF	UNI
2N2993	△♦TII	189 - 94
	SCA	SLD
	SOD	SSI
	SST	TEC
	TIIB	TIIF
		UNI
2N2994	△♦TII	189 - 95
	SCA	SLD
	SOD	SSI
	SST	TEC
	TIIB	TIIF
		UNI
2N2995	SCA	202-103
	SSI	UNI
2N2996	MOTA	80 - 72
	SLD	SSI
	SST	TIID
JAN2N2996	none	80 - 67
2N2997	MOTA	80 - 75
	SLD	SSI
	SST	TIID
JAN2N2997	none	80 - 68
2N2998	MOTA	80 - 77
	NTR	SLD
	SSI	SST
2N2999	CSR	80 - 79
	NTR	SLD
	SSI	SST
2N3009	△♦FSC	134 - 55
	CSR	♦ITT 263 - 99
	♦MOTA	NSC
	NTR	SCA
	SLD	SST
		TIIF
2N3010	△♦FSC	129 - 4
	CSI	CSR 266 - 42
	♦MOTA	♦RTN
	SCA	SDE
	♦SES	♦TEC
	TIIF	UPI
2N3011	△♦FSC	134 - 83
	CSI	CSR 264 - 70
	ELMA	♦ETC
	IDI	ITT
	MEHK	♦MOTA
	NASB	NJS
	NSC	NTR
	♦RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	TADI
	TEC	TIID
	TIIF	UPI
2N3012	△♦FSC	104 - 70
	CEI	CSR 265 - 6
	IDI	ITT
	♦MOTA	NASB
	NSC	NTR
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	TADI	TEC
	♦TII	TIIB
	TIID	TIIF
		UPI
2N3013	△♦FSC	134 - 56
	CSR	FERB 263-100
	♦ITT	♦MOTA
	NSC	NTR
	SCA	SGAI
	SLD	SSI
	SST	TADI
	TEC	TIIF
		UPI
JAN2N3013	ITT	134 - 57
	MOTA	TEC 267 - 30
2N3014	△♦FSC	134 - 58
	CSR	♦ITT 264 - 5
	KER	MEHK
	♦MOTA	NSC
	NTR	SCA
	SLD	SST
	TADI	TIIF
		UPI
2N3015	△♦FSC	147 - 36
	CEI	CRI 261 - 74
	CSR	ETC
	HSC	IDC
	IDI	♦MOTA
	NASB	NJS
	NSC	NTR
	SCA	SLD
	SST	TADI
	TEC	♦TII
	TIID	TIIF
		UPI
2N3016	△♦SOD	198 - 97
	CRI	CSR
	PPC	SCA
	SDE	SSI
2N3017	△♦SOD	198 - 98
	KER	PPC
	SCA	SSI
2N3018	IDI	214 - 7
	KER	PPC
	SCA	SSI
2N3019	△♦RTN	146 - 28
	ALGG	CRI
	CSI	CSR
	ESI	♦ETC
	♦FSC	HSC
	HZN	IDI
	ITT	MEHK
	♦MOTA	NASB
	NJS	NSC
	NTR	SCA
	SDE	♦SES
	SGAI	SLD
	SSI	SST
	STI	TADI
	TEC	TSC
	UPI	♦VALG
JAN2N3019	NSC	146 - 29
	RTN	TEC
2N3020	△♦RTN	146 - 1

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TYPE No.	MFRS	Pg&Line
2N3020		
(cont.)	CRI	
	CSI	CSR
	♦FSC	HSC
	HZN	IDI
	ITT	MEHK
	♦MOTA	NASB
	NJS	NSC
	NTR	PRE
	SCA	SDE
	SEI	♦SES
	SLD	SSI
	SST	STI
	TADI	TEC
	TSC	UPI
		♦VALG
2N3021	△♦MOTA	179-107
	CSR	PPC 252 - 49
	SCA	SOD
	SSI	SST
		TEC
2N3022	△♦MOTA	179-108
	CSR	KER 252 - 50
	PPC	SCA
	SOD	SSI
	SST	TEC
2N3023	△♦MOTA	179-109
	CSR	PPC 252 - 51
	SCA	SOD
	SSI	SST
		TEC
2N3024	△♦MOTA	179-110
	CSR	MULB 252 - 52
	PPC	SCA
	SOD	SSI
	SST	TEC
2N3025	△♦MOTA	180 - 1
	CSR	PPC 252 - 53
	SCA	SOD
	SSI	SST
		TEC
2N3026	△♦MOTA	180 - 2
	CSR	KER 252 - 54
	MULB	PPC
	SCA	SOD
	SSI	SST
		TEC
2N3033	SCA	268 - 1
2N3034	SCA	268 - 2
2N3035	SCA	268 - 3
		♦SOD
2N3036	△♦TII	145 - 33
	CSI	CSR 251 - 71
	IDI	NTR
	RTN	SCA
	SDE	♦SES
	SSI	TADI
	TEC	TIIB
	TIID	TIIF
2N3037	△♦TII	133 - 10
	TIIB	TIIF 251 - 72
2N3038	△♦TII	133 - 11
	KER	TIIF 251 - 73
2N3039	△♦TII	103 - 57
		TIIF 251 - 29
2N3040	△♦TII	103 - 58
	TIIB	TIIF 251 - 30
2N3043	△♦TII	122 - 39
	♦MOTA	NTR 269-101
	RTN	SES
	TIIB	TIIF
2N3044	△♦TII	122 - 40
	♦MOTA	NTR 269-102
	RTN	TIIB
		TIIF
2N3045	△♦TII	122 - 41
	♦MOTA	NTR
	RTN	TIIB
		TIIF
2N3046	△♦TII	122 - 42
	♦MOTA	NTR 269-103
	RTN	TIIB
		TIIF
2N3047	△♦TII	122 - 43
	♦MOTA	NTR 269-104
	RTN	TIIB
		TIIF
2N3048	△♦TII	122 - 44
	♦MOTA	NTR
	RTN	TIIB
		TIIF
2N3049	△♦TII	97 - 93
	RTN	STI 269-105
2N3050	△♦TII	97 - 94
		STI 269-106
2N3051	△♦TII	97 - 95
		STI 252 - 34
2N3052	△♦TII	122 - 86
	KER	SSI 259 - 69
		TIIF
2N3053	△♦RCA	192 - 72
	♦ALGG	CEI
	CRI	CSR
	ELMA	ESI
	♦ETC	♦FERB
	FSC	HSC
	IDI	ITT
	KER	MEHK
	MISI	♦MOTA
	♦MULB	NASB
	NJS	♦NPC
	NSC	♦NTLB
	NTR	PHIC

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TYPE No.	MFRS	Pg&Line
2N3053		
(cont.)	PRE	
	RTN	SCA
	SEI	SES
	SSI	SST
	TADI	TEC
	THCF	♦TII
	TIIB	TIIF
	♦TSC	UPI
		♦VALG
2N3054	△RCA	203 - 53
	AMC	CRI
	CSR	FSC
	KER	MISI
	MOTA	♦NPC
	♦NTLB	♦PPC
	PRE	SEI
	♦SES	SGAI
	SIEG	SLD
	SSI	SST
	♦STC	♦TEC
	♦THCF	UPI
		♦WESY
2N3054A	△♦MOTA	214 - 38
	IDI	KER
		STC
2N3055	△♦RCA	217 - 95
	ALGG	AMC
	BELI	CEI
	CRI	CSR
	ELMA	ESI
	♦ETC	♦FERB
	♦FSC	GIC
	♦HSC	HZN
	IDC	IDI
	♦INTG	KER
	MISI	♦MOTA
	♦MULB	NJS
	♦NPC	♦NTLB
	PHIC	♦PHIN
	♦PPC	PRE
	♦RTCF	SDE
	SEI	SEN
	♦SES	SGAI
	SIEG	SLD
	SPC	♦SSI
	SST	♦STC
	TEC	♦THCF
	♦TII	UPI
	♦VALG	♦WESY
JAN2N3055	AMC	218 - 5
	MOTA	PPC 241 - 99
	RCA	SEN
	SOD	SPC
2N3055-1	IDI	218 - 6
2N3055-2	IDI	218 - 7
2N3055-3	IDI	218 - 8
2N3055-4	IDI	218 - 9
2N3055-5	IDI	218 - 10
2N3055-6	IDI	218 - 11
2N3055-7	IDI	218 - 12
2N3055-8	IDI	218 - 13
2N3055-9	IDI	218 - 14
2N3055-10	IDI	218 - 15
2N3055S	MISI	218 - 16
	♦RTCF	THCF
2N3056	△♦RTN	135 - 96
	CSI	CSR
	HZN	ITT
	NTR	SCA
	SDE	♦SES
	SLD	SSI
	SST	TADI
		TEC
2N3056A	△♦RTN	135 - 97
	CSI	CSR
	HZN	ITT
	NTR	SCA
	SDE	♦SES
	SLD	SSI
	SST	TADI
		TEC
2N3057	△♦RTN	135-101
	CRI	CSI
	CSR	HZN
	ITT	NTR
	SCA	SDE
	♦SES	SLD
	SSI	SST
	TADI	TEC
2N3057A	△♦RTN	135-102
	CSI	CSR
	HZN	ITT
	NTR	SCA
	SDE	♦SES
	SLD	SSI
	SST	TADI
		TEC
JAN2N3057A	RTN	135-103
		TEC
2N3058	△♦TCY	105 - 81
	IDC	♦RTN
	SCA	♦SPR
	SSI	TEC
2N3059	IDC	105 - 82
	♦RTN	SCA
	♦SPR	SSI
	♦TCY	TEC
2N3060	△♦TCY	105 - 69
	IDC	♦RTN
	SDE	♦SPR
	SSI	TADI
		TEC

TYPE No.	MFRS	Pg&Line
2N3061	△♦TCY	105 - 76
	IDC	♦RTN
	SDE	♦SPR
	SSI	TADI
		TEC
2N3062	△♦TCY	105 - 60
	♦RTN	TADI
		TEC
2N3063	△♦TCY	105 - 70
	♦RTN	TADI
		TEC
2N3064	△♦TCY	105 - 58
	♦RTN	TADI
		TEC
2N3065	△♦TCY	105 - 63
	♦RTN	TADI
		TEC
2N3066	ESI	155 - 56
	♦INL	♦NPC
	♦SIX	SODI
		TIID
2N3067	♦INL	155 - 57
	♦NPC	♦SIX
	SODI	TIID
2N3068	♦INL	155 - 58
	♦NPC	♦SIX
	SODI	TIID
2N3069	CSR	159 - 59
	INL	♦NSC
	♦SIX	♦SODI
	TADI	TIID
2N3070	CSR	159 - 60
	ESI	INL
	♦NSC	♦SIX
	♦SODI	TIID
2N3071	INL	159 - 61
	NSC	♦SIX
	♦SODI	TIID
2N3072	△♦FSC	110 - 79
	CEI	CRI 256 - 34
	CSI	CSR
	ETC	HZN
	IDI	ITT
	MEHK	♦MOTA
	NASB	NJS
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	TADI	TEC
2N3073	△♦FSC	103 - 93
	CSI	CSR 256 - 35
	ETC	HZN
	IDI	ITT
	MEHK	♦MOTA
	NASB	NJS
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	TADI	TEC
2N3076	△♦TRW	223 - 43
	SCA	SSI
2N3077	IDI	133 - 22
	PHIC	♦SCA
		SSI
2N3078	IDI	133 - 23
	PHIC	♦SCA
		SSI
2N3079	△♦DEL	227 - 91
	SLD	SPC 238 - 36
		SST
2N3080	△♦DEL	227 - 92
	SLD	SPC 238 - 37
		SST
2N3081	CSI	108 - 82
	IDI	♦MOTA 257 - 25
	NTR	RTN
	SCA	SDE
		♦SES
2N3081/46	SCA	106 - 70
		257 - 26
2N3084	△♦TCY	161 - 62
		INL
2N3085	△♦TCY	161 - 63
		INL
2N3086	△♦TCY	161 - 64
		INL
2N3087	△♦TCY	161 - 65
		INL
2N3088	INL	161 - 66
2N3088A	INL	161 - 67
2N3089	△♦TCY	161 - 68
	INL	NSC
		♦SIX
2N3089A	△♦TCY	161 - 69
	INL	NSC
		♦SIX
2N3107	△♦FSC	145-103
	CRI	CSI 253 - 3
	CSR	HZN
	IDI	ITT
	MEHK	NASB
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	TIIF
2N3108	△♦FSC	145 - 62
	CRI	CSI 252 - 60
	CSR	HZN
	IDI	ITT
	MEHK	NASB
	NSC	NTR
	RTN	SCA

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TYPE No.	MFRS	Pg&Line
2N3108		
(cont.)	SDE	
	♦SES	SGAI
	SLD	SST
	TADI	TEC
		TIIF
2N3109	△♦FSC	145-104
	CRI	CSI 253- 4
	CSR	HZN
	IDI	ITT
	MEHK	NASB
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	TADI
		TIIF
2N3110	△♦FSC	145- 63
	CRI	CSI 252- 61
	CSR	HZN
	IDI	ITT
	MEHK	MOTA
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SST
	TADI	TEC
		TIIF
2N3112	△♦SIX	150- 97
		ESI
2N3114	△♦FSC	144-110
	CSR	ESI
	IDI	♦MOTA
	PRE	SEI
	SGAI	SLD
	SSI	SST
	TADI	TEC
	♦TII	TIIB
	TIID	TIIF
2N3115	△♦MOTA	136- 22
	CSI	CSR 262- 26
	ETC	HSC
	IDI	ITT
	NJS	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SPR
	STI	TEC
2N3116	△♦MOTA	136- 23
	CRI	CSI 262- 27
	CSR	ETC
	FSC	HSC
	IDI	ITT
	NJS	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SPR
	STI	TEC
2N3117	△♦FSC	133- 24
	CRI	CSI
	CSR	IDI
	♦ITT	MEHK
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SSI
	SST	STI
	TADI	♦TEC
	♦TII	TIID
		TIIF
2N3118	△♦RCA	191- 31
	CEI	CSR
	IDI	SCA
	♦SES	SSI
		STI
2N3119	△♦RCA	191- 32
	CSR	IDI
	KER	SCA
	♦SES	SSI
		STI
2N3120	CEI	110- 80
	CSI	CSR 256- 36
	ETC	HZN
	IDI	ITT
	MEHK	♦MOTA
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SLD
	SST	TADI
		TEC
2N3121	CSI	103- 94
	CSR	ETC 256- 37
	HZN	IDI
	ITT	MEHK
	♦MOTA	NASB
	NJS	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SLD
	SST	TADI
		TEC
2N3122	△RTN	145- 64
	CSI	CSR
	NTR	SDE
	♦SES	SSI
2N3124	CSR	170- 91
	GPD	
2N3125	CSR	170- 92
	GPD	
2N3126	CSR	170- 93
	GPD	
2N3127	△MOTA	82- 53
	PRE	SEI
		SSI
JAN2N3127	MOTA	82- 54
2N3133	△♦MOTA	108- 96
	CEI	CSI 260- 24
	CSR	ETC
	FSC	HSC
	IDI	ITT
	MEHK	MULB
	NASB	NJS
	♦NSC	NTR
	PHIC	♦PHIN
	RTN	SCA
	SDE	♦SES
	SLD	SPR
	SSI	SST
	STI	TEC
2N3134	△♦MOTA	108- 97
	CEI	CSI 260- 25
	CSR	ETC
	FSC	HSC
	IDC	IDI
	ITT	MEHK
	MULB	NASB
	NJS	♦NSC
	NTR	PHIC
	♦PHIN	RTN
	SCA	SDE
	♦SES	SPR
	SSI	SST
	STI	TEC
		UPI
2N3135	△♦MOTA	106- 86
	CRI	CSI 260- 26
	CSR	♦ETC
	FSC	HSC
	IDC	IDI
	ITT	MEHK
	♦MULB	NASB
	NJS	♦NSC
	NTR	RTN
	SCA	SDE
	♦SES	SLD
	SPR	SSI
	SST	STI
	TEC	UPI
2N3136	△♦MOTA	106- 87
	CSI	CSR 260- 27
	♦ETC	HSC
	IDC	IDI
	MEHK	♦MULB
	NASB	NJS
	♦NSC	NTR
	RTN	SCA
	SDE	♦SES
	SPR	SSI
	SST	STI
	TEC	UPI
2N3137	△♦FSC	142- 30
	CSR	IDI
	LTTF	MISI
	♦MOTA	♦NPC
	SCA	SGAI
	SSI	TADI
	THCF	UPI
2N3138	SCA	202- 69
	SSI	TEC
	♦TRW	UTS
2N3139	SCA	202- 70
	SSI	TEC
		UTS
2N3140	KER	202- 71
	SCA	SSI
	TEC	UTS
2N3141	SCA	202- 72
	SSI	TEC
		UTS
2N3142	IDI	203- 54
	SCA	SSI
	TEC	♦TRW
		UTS
2N3143	IDI	203- 55
	SCA	SSI
	TEC	UTS
2N3144	IDI	203- 56
	SCA	SSI
	TEC	♦TRW
		UTS
2N3145	IDI	203- 57
	SCA	SSI
	TEC	UTS
2N3146	CSR	172- 44
	GPD	SLD
	SST	STI
2N3147	CSR	172- 45
	GPD	SLD
	SST	STI
2N3149	△♦STC	229-103
	AMC	HZN
	KER	PTI
	SPC	TEC
2N3150	△♦STC	229-104
	AMC	HZN
	KER	PTI
	SPC	TEC
2N3151	△♦STC	229-105
	AMC	HZN
	KER	PTI
	SPC	TEC
2N3152	SCA	191- 66
2N3153	IDI	277-101
2N3154	GPD	166- 86
	♦STC	
2N3155	GPD	166- 87
	♦STC	
2N3156	GPD	166- 88
	♦STC	
2N3157	GPD	166- 89
	♦STC	
2N3158	ETC	166- 90
	GPD	NJS
	♦STC	
2N3159	ETC	166- 91
	GPD	NJS
2N3160	ETC	166- 92
	GPD	NJS
	♦STC	
2N3161	GPD	166- 93
	♦STC	
2N3163	PPC	183- 26
	PRE	SCA
	SEI	SSI
2N3164	PPC	183- 27
	SCA	SSI
2N3165	PPC	183- 28
	SCA	SSI
2N3166	PPC	183- 29
	SCA	SSI
2N3167	SCA	183- 30
	SSI	
2N3168	SCA	183- 31
	SSI	
2N3169	SCA	183- 32
	SSI	
2N3170	SCA	183- 33
	SSI	
2N3171	CSR	183- 9
	MOTA	SCA
	SES	SOD
	SSI	
2N3172	CSR	183- 10
	MOTA	SCA
	SES	SOD
	SSI	
2N3173	CSR	183- 11
	MOTA	SCA
	SES	SOD
	SSI	
2N3174	CSR	183- 12
	MOTA	SCA
	SES	SOD
	SSI	
2N3175	PPC	183- 34
	SCA	SSI
2N3176	KER	183- 35
	PPC	SCA
	SSI	
2N3177	PPC	183- 36
	SCA	SSI
2N3178	KER	183- 37
	PPC	SCA
	SSI	
2N3179	SCA	183- 38
	SSI	
2N3180	SCA	183- 39
	SSI	
2N3181	SCA	183- 40
	SSI	
2N3182	SCA	183- 41
	SSI	
2N3183	CSR	183- 13
	MOTA	SCA
	SES	SOD
	SSI	
2N3184	CSR	183- 14
	MOTA	SCA
	SES	SOD
	SSI	
2N3185	CSR	183- 15
	MOTA	SCA
	SES	SOD
	SSI	
2N3186	CSR	183- 16
	MOTA	SCA
	SES	SOD
	SSI	
2N3187	SCA	183- 42
	SSI	
2N3188	SCA	183- 43
	SSI	
2N3189	SCA	183- 44
	SSI	
2N3190	SCA	183- 45
	SSI	
2N3191	KER	183- 46
	SCA	SSI
2N3192	SCA	183- 47
	SSI	
2N3193	KER	183- 48
	SCA	SSI
2N3194	SCA	183- 49
	SES	SSI
2N3195	CSR	183- 17
	MOTA	SCA
	SES	SOD
	SSI	SST
2N3196	CSR	183- 18
	MOTA	SCA
	SES	SOD
	SSI	
2N3197	CSR	183- 19
	MOTA	SCA
	SES	SOD
	SSI	
2N3198	CSR	183- 20
	MOTA	SCA
	SES	SOD
	SSI	
2N3199	SSI	180- 81
	♦TCY	
2N3200	SLD	180- 82
	SSI	SST
	♦TCY	
2N3201	SSI	180- 83
	♦TCY	
2N3202	CSR	177- 40
	KER	SOD
	SSI	♦TCY
		TEC
2N3203	CSR	177- 41
	KER	SCA
	SOD	SSI
	♦TCY	TEC
2N3204	CSR	177- 42
	SCA	SOD
	SSI	♦TCY
		TEC
2N3205	KER	180- 84
	SCA	SSI
		♦TCY
2N3206	KER	180- 85
	SCA	SSI
		♦TCY
2N3207	MOTA	180- 86
	SCA	SSI
		♦TCY
2N3208	CSR	177- 43
	KER	MOTA
	PRE	SCA
	SEI	♦TCY
		TEC
2N3209	△♦FSC	104- 96
	CSR	IDI 265- 7
	♦ITT	NASB
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	TADI
	TEC	TIIF
2N3210	△♦MOTA	134- 26
	CSI	CSR 263- 22
	RTN	SDE
		♦SES
2N3211	IDI	134- 59
	♦MOTA	SCA
2N3212	GPD	164- 92
	STC	
2N3213	GPD	164- 93
	STC	
2N3214	GPD	164- 94
	STC	
2N3215	GPD	164- 95
	STC	
2N3217	△♦TCY	105- 83
	IDC	♦RTN 277-102
	SDE	SES
	♦SPR	SSI
	STI	TADI
2N3218	△♦TCY	105- 71
	IDC	♦RTN 277-103
	SDE	SES
	♦SPR	SSI
	STI	TADI
2N3219	△♦TCY	105- 61
	ESI	IDC 277-104
	♦RTN	SDE
	SES	♦SPR
	SSI	STI
		TADI
2N3220	SCA	212- 89
	SSI	TEC
2N3221	SCA	212- 90
	SSI	TEC
2N3222	SCA	212- 91
	SSI	TEC
2N3223	SCA	212- 92
	SSI	TEC
2N3224	IDI	109- 99
	SCA	SSI
2N3225	HZN	109-102
	IDI	SCA
		SSI
2N3226	CSR	203- 58
	ETC	GIC
	IDI	NJS
	PPC	SCA
	SDE	SLD
	SOD	SSI
		SST
2N3227	△♦MOTA	135- 2
	CEI	CSI 265-109
	ESI	HSC
	PRE	RTN
	SDE	SEI
	♦SES	SSI
	SST	TIIF
2N3229	△♦RCA	201- 41
	♦FERB	SSI
	TII	TIIB
2N3232	△♦STC	219-106
	AMC	CSR
	♦ETC	GIC
	KER	♦MOTA
	NASB	NJS
	♦PPC	SCA
	SEN	♦SES

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TYPE No.	MFRS	Pg&Line
2N3232		
(cont.)	SLD	
	♦SOD	SPC
	SSI	SST
	TEC	♦WESY
2N3233	△♦STC	219-107
	AMC	CSR
	♦ETC	KER
	MOTA	NASB
	NJS	PPC
	SCA	SEN
	♦SES	SLD
	SOD	SPC
	SSI	SST
	TEC	TRW
		♦WESY
2N3234	△♦STC	219-108
	NASB	SCA
	SEN	♦SES
	SOD	SPC
	SSI	TRW
2N3235	△♦STC	219-109
	CEI	CSR
	♦ETC	GIC
	KER	♦MOTA
	NASB	NJS
	PPC	SCA
	SEN	SES
	SLD	♦SOD
	SPC	SSI
	SST	TEC
		TRW
2N3236	△♦STC	222- 89
	CSR	MOTA
	NASB	PPC
	SCA	SEN
	SES	SLD
	SPC	SSI
	SST	TEC
		WESY
2N3237	△♦STC	223- 44
	NASB	SCA
	SEN	SES
	SOD	SPC
		SSI
2N3238	△♦STC	222- 90
	NASB	SCA
	SEN	SES
	SOD	SPC
	SSI	TEC
		WESY
2N3239	△♦STC	222- 91
	SCA	SEN
	SES	SOD
	SPC	SSI
		TEC
2N3240	△♦STC	222- 92
	KER	SEN
	SES	SOD
	SPC	SSI
		TRW
2N3241	SCA	137-101
	STI	
2N3241A	SCA	137-102
	SES	
2N3242	SCA	137-103
	STI	
2N3242A	SCA	137-104
	SES	STI
2N3244	△♦MOTA	176- 46
	CSR	HSC 257- 89
	HZN	KER
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SSI	STI
	TADI	TEC
	♦TII	TIID
		TIIF
2N3245	△♦MOTA	176- 47
	CSR	HSC 256-102
	HZN	NSC
	NTR	PRE
	RTN	SCA
	SDE	SEI
	♦SES	SSI
	STI	TADI
	TEC	♦TII
	TIID	TIIF
2N3246	△NSC	131- 70
	IDI	SCA
	SSI	TADI
2N3247	TADI	113- 77
	UPI	
2N3248	△♦MOTA	104- 42
	CSR	HSC 260- 89
	IDI	MEHK
	NASB	NSC
	NTR	♦RTN
	SCA	SLD
	SSI	SST
	STI	TEC
2N3249	△♦MOTA	104- 53
	CEI	CSR 262- 73
	HSC	IDI
	MEHK	NASB
	NSC	NTR
	♦RTN	SCA
	SLD	SSI
	SST	STI
		TEC
2N3250	△♦MOTA	104- 43
	CRI	CSI 261- 37

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
2N3250		
(cont.)	CSR	
	♦FSC	HSC
	HZN	IDI
	♦ITT	MEHK
	NASB	NJS
	NSC	NTR
	♦RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	STI
	TADI	TEC
	♦TII	TIIB
	TIID	TIIF
	TSC	UPI
2N3250A	△♦MOTA	104 - 44
	CEI	CSI 261 - 38
	CSR	♦FSC
	HZN	IDI
	MEHK	NASB
	NJS	NSC
	NTR	PHIC
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	STI	TADI
	TEC	♦TII
	TIIB	TIID
	TIIF	TSC
		UPI
JAN2N3250A	MOTA	104 - 45
	RTN	TEC 267 - 14
		TII
2N3251	△♦MOTA	104 - 54
	CRI	CSI 262-110
	♦FSC	HSC
	HZN	IDI
	♦ITT	MEHK
	NASB	NSC
	NTR	PHIC
	♦RTN	SDE
	♦SES	SGAI
	SLD	SST
	STI	TADI
	TEC	♦TII
	TIIB	TIID
	TIIF	TSC
		UPI
2N3251A	△♦MOTA	104 - 55
	CSI	CSR 261 - 39
	ESI	♦FSC
	HZN	IDI
	MEHK	NASB
	NSC	NTR
	PHIC	♦RTN
	SDE	♦SES
	SLD	SST
	STI	TADI
	TEC	♦TII
	TIIB	TIID
	TIIF	TSC
		UPI
JAN2N3251A	MOTA	104 - 56
	NSC	RTN 267 - 15
	TEC	TII
2N3252	△♦MOTA	192 - 73
	CRI	CSR 258 - 60
	♦FSC	HZN
	IDI	♦ITT
	KER	MISI
	NASB	NSC
	NTR	PHIC
	RTCF	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	STI	TADI
	TEC	THCF
	♦TII	TIIB
	TIID	TIIF
		UPI
2N3253	△♦MOTA	192 - 74
	CSR	♦FSC 257 - 90
	HSC	HZN
	IDI	♦ITT
	KER	MISI
	NASB	NSC
	NTR	PHIC
	♦RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SSI	SST
	TADI	TEC
	THCF	♦TII
	TIID	TIIF
		UPI
JAN2N3253	MOTA	192 - 75
	TII	266 - 15
2N3260	△♦STC	223 - 45
	IDI	PTI 235 - 70
		SPC
2N3261	CEI	127 - 99
	♦FERB	IDI 262 - 62
	SCA	SGAI
		SSI
2N3262	△♦RCA	196 - 77
	♦FERB	IDI 256 - 55
	KER	SCA
	SES	SSI
2N3263	△♦RCA	186 - 2
	SSI	♦TII 245 - 12
	TIIB	TRW
2N3264	△♦RCA	186 - 3
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TYPE No.	MFRS	Pg&Line
2N3264		
(cont.)	SSI	245 - 13
	♦TII	TIIB
		TRW
2N3265	△♦RCA	186 - 4
	IDI	KER 245 - 14
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STC
	TEC	♦TII
	TIIB	TRW
2N3266	△♦RCA	186 - 5
	IDI	KER 245 - 15
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STC
	TEC	♦TII
	TIIB	TRW
2N3267	SDE	80 - 78
2N3268	CEI	114 - 11
	IDI	SCA
	SSI	TEC
2N3277	INL	150 - 7
2N3278	INL	150 - 14
2N3279	△♦MOTA	82 - 58
		SSI
2N3280	△♦MOTA	82 - 59
		SSI
2N3281	△♦MOTA	82 - 56
		SSI
2N3282	△♦MOTA	82 - 57
		SSI
2N3283	△♦MOTA	82 - 47
		SSI
2N3284	△♦MOTA	82 - 48
		SSI
2N3285	△♦MOTA	82 - 49
		SSI
2N3286	△♦MOTA	82 - 50
		SSI
2N3287	△♦MOTA	119 - 24
	CEI	ETC
	IDI	NJS
	SCA	SSI
2N3288	△♦MOTA	119 - 25
	CEI	ETC
	IDI	NJS
	SCA	SSI
2N3289	△♦MOTA	118-103
	ETC	IDI
	NJS	SCA
		SSI
2N3290	△♦MOTA	118-104
	ETC	IDI
	NJS	SCA
		SSI
2N3291	△♦MOTA	118 - 84
	CEI	ETC
	IDI	NJS
	SCA	SSI
2N3292	△♦MOTA	118 - 85
	CEI	ETC
	IDI	NJS
	SCA	SSI
2N3293	△♦MOTA	118 - 86
	CEI	ETC
	IDI	NJS
		SCA
2N3294	△♦MOTA	118 - 87
	CEI	ETC
	IDI	NJS
		SCA
2N3295	△♦MOTA	190 - 3
	CSR	IDI
	KER	SCA
		SSI
2N3296	△♦MOTA	195 - 16
	SCA	SSI
2N3297	△MOTA	205 - 39
	IDI	KER
	SCA	SSI
		TEC
2N3298	△♦MOTA	188 - 99
	CSR	SCA
	SSI	TEC
2N3299	△♦FSC	147 - 37
	CRI	CSI 262 - 12
	CSR	♦ETC
	HSC	IDI
	ITT	ITTB
	KER	MEHK
	♦MOTA	NASB
	NJS	NSC
	NTR	PRE
	RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	TEC	TIIF
		UPI
2N3300	△♦FSC	147 - 38
	CEI	CRI 262 - 13
	CSI	CSR
	♦ETC	HSC
	IDI	ITT
	ITTB	MEHK
	♦MOTA	NASB
	NJS	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SGAI
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TYPE No.	MFRS	Pg&Line
2N3300		
(cont.)	SLD	
	SSI	SST
	TEC	TIIF
		UPI
2N3301	△♦FSC	133 - 85
	CRI	CSI 262 - 14
	CSR	♦ETC
	IDI	ITT
	MEHK	♦MOTA
	NASB	NJS
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SSI	SST
	TEC	TIIF
		UPI
2N3302	△♦FSC	133 - 86
	CRI	CSI 262 - 15
	CSR	♦ETC
	IDI	ITT
	MEHK	♦MOTA
	NASB	NJS
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	TEC
	TIIF	UPI
2N3303	CSR	142 - 28
	♦MOTA	♦PHIC 265 - 44
	♦PHIN	SCA
	SGAI	SSI
	TEC	♦VALG
2N3304	△♦FSC	101 - 84
	CSR	IDI 266 - 17
	♦MOTA	NASB
	NSC	NTR
	♦RTN	SCA
		TADI
2N3305	IDI	108 - 56
	SCA	SSI
		STI
2N3306	CEI	108 - 57
	IDI	SCA
	SSI	STI
2N3307	△♦MOTA	96 - 31
		SCA
2N3308	△♦MOTA	96 - 32
		SCA
2N3309	CSR	191 - 51
	IDI	MISI
	♦NPC	SCA
	SSI	THCF
	TII	TIIB
2N3311	△♦MOTA	172 - 46
	CSR	♦ETC
	GPD	NJS
	STC	UPI
2N3312	△♦MOTA	172 - 47
	CSR	♦ETC
	GPD	NJS
	STC	UPI
2N3313	△♦MOTA	172 - 48
	CSR	♦ETC
	GPD	NJS
	STC	UPI
2N3314	△♦MOTA	172 - 49
	CSR	♦ETC
	GPD	NJS
	STC	UPI
2N3315	△♦MOTA	172 - 50
	CSR	♦ETC
	GPD	NJS
	STC	UPI
2N3316	△♦MOTA	172 - 51
	CRI	CSR
	♦ETC	GPD
	NJS	STC
		UPI
2N3317	△♦SPR	94-107
	IDC	RTN 277-105
	TCY	UPI
2N3318	△♦SPR	95 - 10
	CRI	IDC 277-106
	TCY	UPI
2N3319	△♦SPR	95 - 25
	IDC	RTN 277-107
	TCY	UPI
2N3320	IDC	80 - 11
	IDI	UPI 266 - 39
2N3321	IDC	80 - 12
	IDI	266 - 40
2N3322	IDI	80 - 13
		266 - 41
2N3323	△♦MOTA	86 - 36
	IDI	SSI
2N3324	△♦MOTA	86 - 37
	IDI	SSI
2N3325	△♦MOTA	85-102
	IDI	SSI
2N3326	CEI	147 - 39
	CSI	CSR
	IDI	ITT
	NTR	RTN
	SCA	SDE
	♦SES	SSI
		UPI
2N3327	SCA	203 - 39
		SSI
2N3328	INL	150 - 9
	♦SIX	SLD
		TIID

TYPE No.	MFRS	Pg&Line
2N3329	△♦TII	150 - 98
	INL	NSC
	♦SIX	SLD
	♦SODI	TIIB
	TIID	TSC
JAN2N3329	TII	150 - 99
2N3330	△♦TII	150-100
	ESI	INL
	♦MOTA	NSC
	♦SIX	SLD
	♦SODI	TIIB
	TIID	TIIF
		TSC
JAN2N3330	MOTA	150-101
		TII
2N3331	△♦TII	150-102
	INL	NSC
	♦SIX	SLD
	♦SODI	TIIB
	TIID	TIIF
		TSC
JAN2N3331	TII	150-103
2N3332	△♦TII	150-104
	ESI	INL
	SLD	♦SODI
	TIIB	TIID
		TIIF
JAN2N3332	none	150-105
2N3333	SLD	150 - 10
	TIID	TIIF 269-107
2N3334	SLD	150 - 11
	TIID	TIIF 269-108
2N3335	SLD	150 - 12
	TIID	TIIF 269-109
2N3336	SLD	150 - 13
	TIID	TIIF 269-110
2N3337	♦ETC	128 - 77
	IDI	NJS
	SCA	SSI
2N3338	△♦FSC	128 - 78
	♦ETC	IDI
	NJS	SCA
	SGAI	SSI
2N3339	△♦FSC	128 - 79
	♦ETC	IDI
	NJS	SCA
	SGAI	SSI
2N3340	SCA	135 - 95
	SSI	252-102
2N3341	SCA	106 - 18
	SSI	251 - 31
2N3342	IDI	96 - 96
	RTN	SCA 234 - 94
	SLD	SSI
	SST	STI
		TCY
2N3343	RTN	97 - 49
	SLD	SSI 277-108
	SST	STI
		TCY
2N3344	RTN	97 - 50
	SLD	SSI 277-109
	SST	STI
		TCY
2N3345	SLD	97 - 51
	SSI	SST 277-110
	STI	TCY
2N3346	RTN	97 - 52
	SLD	SSI 278 - 1
	SST	STI
		TCY
2N3347	△♦TII	99 - 48
	MOTA	NSC 270 - 1
	NTR	RTN
	SLD	SSI
	SST	STI
	TADI	TIIB
	TIID	TIIF
2N3348	△♦TII	99 - 49
	MOTA	NSC 270 - 2
	NTR	RTN
	SLD	SSI
	SST	STI
	TADI	TIIB
	TIID	TIIF
		UPI
2N3349	△♦TII	99 - 50
	MOTA	NSC 270 - 3
	NTR	RTN
	SLD	SSI
	SST	STI
	TADI	TIIB
	TIID	TIIF
		UPI
2N3350	△♦TII	99 - 51
	MOTA	NSC 270 - 4
	NTR	RTN
	SLD	SSI
	SST	STI
	TADI	TIIB
	TIID	TIIF
		UPI
2N3351	△♦TII	99 - 52
	CSR	MOTA 270 - 5
	NSC	NTR
	RTN	SLD
	SSI	SST
	STI	TADI
	TIIB	TIID
	TIIF	UPI
2N3352	△♦TII	99 - 53
	MOTA	NSC 270 - 6
	NTR	RTN
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TYPE No.	MFRS	Pg&Line
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(cont.)	SLD	
	SSI	SST
	STI	TADI
	TIIB	TIID
		TIIF
2N3365	△♦TSC	155 - 59
	INL	♦MOTA
	NSC	♦SIX
	♦SODI	STI
		TIID
2N3366	△♦TSC	155 - 60
	INL	♦MOTA
	♦SIX	SODI
		TIID
2N3367	△♦TSC	155 - 61
	INL	♦MOTA
	NSC	♦SIX
		TIID
2N3368	△♦TSC	155 - 62
	INL	NSC
	SIX	♦SODI
		TIID
2N3369	△♦TSC	155 - 63
	INL	NSC
	SIX	♦SODI
		TIID
2N3370	△♦TSC	155 - 64
	INL	NSC
	SIX	♦SODI
		TIID
2N3371	IDI	86 - 32
	SLD	SST
		TIID
2N3375	△♦RCA	198 - 99
	♦ALGG	CSR
	ESI	♦FERB
	KER	♦MOTA
	♦MULB	PHIC
	♦PHIN	PRE
	♦RTCF	RTN
	SCA	SEI
	♦SES	SSI
	♦SSS	SST
	TADI	♦TII
	TIIB	UPI
	UTS	♦VALG
JAN2N3375	MOTA	198-100
	RCA	245 - 11
2N3376	△♦SIX	150-106
	ESI	INL
2N3378	△♦SIX	150-107
		INL
2N3380	△♦SIX	150-108
	INL	SODI
2N3382	△♦SIX	150-109
	INL	NSC
2N3384	△♦SIX	150-110
	INL	NSC
2N3386	△♦SIX	151 - 1
	INL	NSC
2N3388	CSI	140 - 80
	CSR	NTR 248-110
	RTN	SDE
	♦SES	SSI
	STC	STI
2N3389	CSR	140 - 81
	SSI	STC 249 - 1
		STI
2N3390	△♦GESY	116 - 80
	CRI	MISI
	NSC	♦SES
	SST	THCF
2N3390-U29	UPI	116 - 81
2N3391	△♦GESY	116 - 82
	CRI	CSR
	ESI	IDC
	MEHK	MISI
	NSC	♦SES
	♦SPR	SST
		THCF
2N3391-U29	UPI	116 - 83
2N3391A	△♦GESY	116 - 84
	CSR	IDC
	MEHK	MISI
	NSC	PRE
	SEI	♦SES
	♦SPR	THCF
2N3392	△♦GESY	116 - 85
	CRI	CSR
	IDC	MEHK
	MISI	NSC
	NTR	PRE
	SEI	♦SES
	SLD	♦SPR
	SST	THCF
2N3392-U29	UPI	116 - 86
2N3393	△♦GESY	116 - 87
	CRI	CSR
	IDC	MISI
	NSC	NTR
	♦SES	SLD
	♦SPR	SST
		THCF
2N3393-U29	UPI	116 - 88
2N3394	△♦GESY	116 - 89
	CRI	CSR
	IDC	MISI
	NSC	NTR
	PRE	SEI
	♦SES	SLD
	♦SPR	SST
		THCF
2N3394-U29	UPI	116 - 90

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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2N3395	△♦GESY	116 - 91
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	MISI NSC	
	NTR ♦SES	
	SLD ♦SPR	
	SST THCF	
2N3396	△♦GESY	116 - 92
	CRI CSR	
	IDC MISI	
	NSC NTR	
	♦SES SLD	
	♦SPR SST	
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2N3397	△♦GESY	116 - 93
	CRI CSR	
	IDC MISI	
	NSC NTR	
	♦SES SLD	
	♦SPR SST	
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2N3398	△♦GESY	116 - 94
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	NSC NTR	
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	MISI SES	
	SLD ♦SPR	
	SST THCF	
2N3403	△♦GESY	140 - 13
	CSR IDC	
	MISI SES	
	SLD ♦SPR	
	SST THCF	
2N3404	△♦GESY	140 - 14
	CSR IDC	
	MISI SES	
	SLD ♦SPR	
	SST THCF	
2N3405	△♦GESY	140 - 15
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	MISI SES	
	SLD ♦SPR	
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	MISI NSC	
	PRE SEI	
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	MISI NSC	
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	MISI NSC	
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	KER PPC	
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	SES SLD	
	SOD SSI	
	SST TADI	
	TEC TIIB	
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2N3430	△♦WESY	226 - 68
	KER SCA	238 - 14
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2N3431	△♦WESY	226 - 69
	KER SCA	238 - 15
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2N3432	△♦WESY	226 - 70
	KER SES	238 - 16
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2N3433	KER	226 - 71
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	NSC ♦SIX	
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2N3438	△♦TSC	155 - 67
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	NSC ♦SIX	
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	ETC ♦FERB	
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	ESI ETC	
	♦FERB ♦FSC	
	HZN IDI	
	KER MISI	
	♦MOTA NJS	
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	CSR ♦FERB	
	IDI KER	
	MISI MOTA	
	♦NPC ♦PPC	
	SDE SES	
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2N3442	△♦RCA	220 - 13
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	CRI CSR	
	ETC ♦FERB	
	IDI KER	
	MISI ♦MOTA	
	♦MULB NJS	
	♦NPC NSC	
	♦PHIN ♦PPC	
	PRE ♦RTCF	
	SDE SEI	
	SEN ♦SES	
	SGAI SLD	
	SOD SPC	
	SSI SST	
	♦STC ♦THCF	
	♦VALG ♦WESY	
JAN2N3442	RCA	218 - 17
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2N3444	△♦MOTA	188 - 65
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	HZN IDI	
	♦ITT KER	
	MISI NASB	
	NSC NTR	
	♦RTN SCA	
	SDE ♦SES	
	SGAI SLD	
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	TADI THCF	
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2N3445	△♦MOTA	218 - 18
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2N3446	△♦MOTA	218 - 19
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	SCA SDE	
	SOD SSI	
	STC TEC	
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2N3447	△♦MOTA	218 - 20
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	SCA SDE	
	SEN SOD	
	SSI STC	
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2N3448	△♦MOTA	218 - 21
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	SCA SDE	
	SEN SOD	
	SSI STC	
	TEC UNI	
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JAN2N3449	MOTA	86 - 28
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2N3451	NSC	101 - 70
	NTR	262 - 87
2N3452	△♦TSC	155 - 68
	INL NSC	
	♦SIX TIID	
2N3453	△♦TSC	155 - 69
	INL NSC	
	♦SIX TIID	
2N3454	△♦TSC	155 - 70
	INL NSC	
	♦SIX TIID	
2N3455	△♦TSC	155 - 71
	INL ♦SIX	
	TIID	
2N3456	△♦TSC	155 - 72
	INL ♦SIX	
	TIID	
2N3457	△♦TSC	155 - 73
	INL NSC	
	♦SIX SODI	
	TIID	
2N3458	△♦TSC	155 - 74
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	♦SIX SLD	
	♦SODI ♦TII	
	TIIB TIID	
2N3460	△♦TSC	155 - 76
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	♦SIX SLD	
	♦SODI ♦TII	
	TIIB TIID	
2N3461	GPD	164 - 64
2N3464	CSR	192 - 79
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	SSI TRW	
2N3465	△TCY	161 - 70
2N3466	△TCY	161 - 71
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2N3467	△♦MOTA	175 - 17
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	HSC ITT	
	NSC NTR	
	RTN SCA	
	SDE ♦SES	
	SLD SST	
	TADI ♦TII	
	TIID TIIF	
JAN2N3467	MOTA	174-107
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2N3468	△♦MOTA	175 - 18
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	ITT NSC	
	NTR RTN	
	SCA SES	
	SLD SST	
	TADI ♦TII	
	TIID TIIF	
JAN2N3468	MOTA	174-108
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2N3469	△SOD	189 - 51
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	IDI KER	
	PPC SCA	
	SDE SLD	
	SSI SST	
	STC TEC	
	TRW UNI	
2N3470	△♦WESY	229-106
	IDI SCA	
	♦SES SPC	
	STC	
2N3471	△♦WESY	229-107
	IDI SCA	
	♦SES SPC	
	STC	
2N3472	△♦WESY	229-108
	IDI KER	
	SCA ♦SES	
	SPC STC	
2N3473	△♦WESY	229-109
	IDI ♦SES	
	SPC STC	
2N3474	△♦WESY	229-110
	IDI SCA	
	♦SES SPC	
	STC	
2N3475	△♦WESY	230 - 1
	IDI KER	
	SCA ♦SES	
	SPC STC	
2N3476	△♦WESY	230 - 2
	IDI SCA	
	♦SES SPC	
	STC	
2N3477	△♦WESY	230 - 3
	IDI ♦SES	
	SPC STC	
2N3478	△♦RCA	120 - 5
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	NTR ♦SCA	
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2N3480	SSCF	276 - 94
2N3481	△SSCF	276 - 95
2N3483	SSCF	276 - 96
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2N3485	△♦MOTA	176 - 5
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	RTN SCA	
	SDE ♦SES	
	♦TII TIID	
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2N3485A	△♦MOTA	106 - 88
	CSI HZN	258-110
	NTR RTN	
	SCA SDE	
	♦SES ♦TII	
	TIID TIIF	
JAN2N3485A	MOTA	106 - 89
	RTN	267 - 21
2N3486	△♦MOTA	176 - 6
	CSI CSR	259 - 1
	HZN NTR	
	RTN SCA	
	SDE ♦SES	
	SSI ♦TII	
	TIID TIIF	
2N3486A	△♦MOTA	106 - 90
	CSI HZN	259 - 2
	KER NTR	
	RTN SCA	
	SDE ♦SES	
	♦TII TIID	
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JAN2N3486A	MOTA	106 - 91
	RTN	267 - 22
2N3487	△♦MOTA	218 - 22
	CSR IDI	243 - 63
	KER PPC	
	SCA SDE	
	SLD SOD	
	SSI SST	
	STC TEC	
	TRW UNI	
2N3488	△♦MOTA	218 - 23
	CSR IDI	243 - 64
	KER PPC	
	SCA SDE	
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2N3488		
(cont.)	SEN	
	SLD SOD	
	SSI SST	
	STC TEC	
	TRW UNI	
2N3489	△♦MOTA	218 - 24
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	KER PPC	
	SCA SDE	
	SEN SLD	
	SOD SSI	
	SST STC	
	TEC TRW	
	UNI	
2N3490	△♦MOTA	218 - 25
	CSR IDI	243 - 66
	KER PPC	
	SCA SDE	
	SLD SOD	
	SSI SST	
	STC TEC	
	TRW UNI	
2N3491	△♦MOTA	218 - 26
	CSR IDI	243 - 67
	KER PPC	
	SCA SDE	
	SEN SLD	
	SOD SSI	
	SST STC	
	TEC TRW	
	UNI	
2N3492	△♦MOTA	218 - 27
	CSR IDI	243 - 68
	KER PPC	
	SCA SDE	
	SEN SLD	
	SOD SSI	
	SST STC	
	TEC TRW	
	UNI	
2N3493	ETC	115 - 13
	SCA SSI	
2N3494	△♦MOTA	108 - 98
	CSR ETC	260 - 46
	♦FSC HSC	
	IDI NJS	
	♦RTN SCA	
	SES SLD	
	SSI SST	
	STI TEC	
	♦TII TIIB	
	TIID TIIF	
2N3495	△♦MOTA	108 - 83
	CSR ♦FSC	257 - 69
	HSC IDI	
	KER NJS	
	RTN SCA	
	SES SLD	
	SSI SST	
	STI TEC	
	♦TII TIIB	
	TIID TIIF	
2N3496	△♦MOTA	106 - 92
	CSR ETC	260 - 47
	♦FSC IDI	
	KER NJS	
	RTN SCA	
	SES SLD	
	SST STI	
	TEC ♦TII	
	TIIB TIID	
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2N3497	△♦MOTA	106 - 71
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	RTN SCA	
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2N3498	△♦MOTA	188 - 66
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	NSC NTR	
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2N3499	△♦MOTA	188 - 67
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	IDI NSC	
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	SSI SST	
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JAN2N3499	MOTA	192 - 81
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2N3500	△♦MOTA	188 - 68
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	HSC IDI	
	KER NSC	
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	KER	NSC
	NTR	PRE
	SCA	SEI
	SES	SLD
	SSI	SST
	STI	TEC
		UPI
JAN2N3501	MOTA	192 - 83
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	IDI	ITT
	MEHK	NASB
	♦NSC	NTR
	PRE	RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SSI	SST
	STI	TADI
	TEC	♦TII
	TIID	TIIF
		UPI
2N3503	Δ♦FSC	110 - 7
	CRI	CSI 258 - 68
	CSR	HZN
	IDI	ITT
	MEHK	NASB
	♦NSC	NTR
	PRE	RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SSI	SST
	STI	TADI
	TEC	♦TII
	TIID	TIIF
		UPI
2N3504	Δ♦FSC	106 - 93
	CRI	CSI 258 - 69
	CSR	HZN
	IDI	ITT
	KER	MEHK
	NASB	♦NSC
	NTR	PRE
	RTN	SDE
	SEI	♦SES
	SGAI	SLD
	SSI	SST
	STI	TADI
	TEC	♦TII
	TIID	TIIF
		UPI
2N3505	Δ♦FSC	106 - 94
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	ITT	MEHK
	NASB	♦NSC
	NTR	PRE
	RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SSI
	SST	STI
	TADI	TEC
	♦TII	TIID
	TIIF	UPI
2N3506	Δ♦MOTA	188 - 70
	CRI	CSR 252 - 37
	GSE	HSC
	IDI	SCA
	SDE	SOD
	SSI	STC
	STI	TEC
		UPI
JAN2N3506	MOTA	192 - 84
		262 - 97
2N3507	Δ♦MOTA	188 - 71
	ESI	GSE 252 - 38
	HSC	IDI
	KER	SCA
	SDE	SOD
	SSI	STC
	STI	TEC
		UPI
JAN2N3507	MOTA	192 - 85
		262 - 98
2N3508	Δ♦MOTA	136 - 58
	SCA	SSI 265 -110
2N3509	Δ♦MOTA	136 - 59
	SCA	SSI 266 - 1
2N3510	Δ♦MOTA	134 - 60
	CSR	FSC 263 - 97
	HSC	ITT
	SCA	SLD
		SST
2N3511	Δ♦MOTA	134 -101
	CSR	FSC 265 - 40
	HSC	IDI
	ITT	SCA
	SLD	SST
2N3512	CSR	147 - 40
	ETC	♦FERB 260 -102
	MOTA	NJS
		TADI
2N3513	SCA	270 - 12
	SES	
2N3516	SCA	270 - 13
	SES	
2N3521	SES	270 - 14

TYPE No.	MFRS	Pg&Line
2N3522	SCA	270 - 15
	SES	
2N3526	ΔFSC	145 - 1
	IDI	SCA
2N3527	Δ♦TCY	105 - 72
		SCA
2N3543	IDI	212 - 93
	KER	SCA
	SSI	TRW
2N3544	Δ♦MOTA	129 - 7
	IDI	SCA
		SSI
2N3545	ΔRTN	104 - 46
	CEI	CSR 261 - 20
	IDI	NASB
	NSC	NTR
	SCA	SDE
	♦SES	SSI
2N3546	Δ♦MOTA	104 - 97
	FSC	IDC 266 - 75
	IDI	ITT
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SSI
		TADI
2N3547	Δ♦NSC	106 - 14
	CSR	IDI
	♦MEHK	NASB
	NTR	SCA
	SSI	TADI
2N3548	Δ♦NSC	106 - 29
	CSR	HZN
	IDI	♦MEHK
	NASB	NTR
	SCA	SSI
		TADI
2N3549	Δ♦NSC	106 - 30
	CSR	HZN
	IDI	♦MEHK
	NASB	NTR
	SCA	SSI
		TADI
2N3550	Δ♦NSC	106 - 31
	CSR	IDI
	NASB	NTR
		SSI
2N3551	Δ♦TII	216 - 56
	IDI	KER 249 -101
	PPC	SCA
	SSI	TIIB
		♦TRW
2N3552	Δ♦TII	216 - 57
	IDI	PPC 249 -102
	SCA	SSI
	TIIB	♦TRW
2N3553	Δ♦RCA	195 - 17
	♦ALGG	CRI
	CSR	ESI
	♦FERB	HSC
	IDI	KER
	MEHK	♦MOTA
	♦MULB	PHIC
	♦PHIN	PRE
	♦RTCF	RTN
	SCA	SEI
	♦SES	SSB
	SLD	SSI
	TADI	♦TII
	TIIB	UPI
		♦VALG
JAN2N3553	MOTA	195 - 18
	RCA	
2N3554	Δ♦TII	146 - 99
	CSR	IDI 256 - 97
	RTN	SCA
	SDE	♦SES
	TEC	TIIB
	TIID	UPI
2N3563	Δ♦FSC	119 - 84
	CRI	♦CSI
	CSR	♦ETC
	HSC	HZN
	IDI	♦MEHK
	NASB	NJS
	NSC	PRE
	SDE	SEI
	♦SES	SGAI
	SST	STI
	♦TSC	UPI
2N3564	Δ♦FSC	119 - 38
	CSR	ETC
	HSC	HZN
	IDI	♦MEHK
	NASB	NJS
	NPC	NSC
	SDE	♦SES
	SST	STI
	♦TSC	UPI
2N3565	Δ♦FSC	117 - 49
	♦CSI	CSR
	HSC	HZN
	IDI	♦MEHK
	NASB	NJS
	NPC	NSC
	PRE	SDE
	SEI	♦SES
	SGAI	SLD
	SST	STI
	TIID	♦TSC
		UPI
2N3566	Δ♦FSC	124 - 79
	CSI	CSR
	HZN	IDI
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3566		
(cont.)	MEHK	
	NASB	NJS
	NPC	NSC
	PRE	SDE
	SEI	♦SES
	SGAI	SST
	STI	♦TSC
		UPI
2N3567	Δ♦FSC	125 - 28
	CRI	♦CSI
	CSR	HZN
	IDI	MEHK
	NASB	NJS
	NSC	PRE
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	STI	♦TSC
		UPI
2N3568	Δ♦FSC	125 - 29
	♦CSI	CSR
	HZN	IDI
	MEHK	NASB
	NJS	NSC
	PRE	SDE
	SEI	♦SES
	SGAI	SLD
	SST	STI
	♦TSC	UPI
2N3569	Δ♦FSC	125 - 30
	CRI	♦CSI
	CSR	HZN
	IDI	MEHK
	NASB	NJS
	NSC	PRE
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	STI	♦TSC
		UPI
2N3570	Δ♦TII	121 - 19
	CEI	♦FERB
	FSC	♦KMC
	LTTF	♦MISI
	PHIC	♦PHIN
	RTCF	SCA
	SLD	SSI
	SST	♦THCF
	TIIB	TIID
		UPI
2N3571	Δ♦TII	120 - 93
	♦FERB	FSC
	♦KMC	LTTF
	♦MISI	PHIC
	♦PHIN	RTCF
	SCA	SLD
	SSI	SST
	♦THCF	TIIB
	TIID	UPI
2N3572	Δ♦TII	120 - 37
	CEI	♦FERB
	FSC	♦KMC
	LTTF	♦MISI
	PHIC	♦PHIN
	RTCF	SCA
	SLD	SSI
	SST	♦THCF
	TIIB	TIID
		UPI
2N3573	SLD	150 - 5
	TIID	
2N3574	INL	150 - 8
	SLD	TIID
2N3575	INL	150 - 15
	SLD	TIID
2N3576	Δ♦TII	104 - 71
	CSR	IDI 264 - 78
	NASB	NSC
	NTR	SCA
	SDE	♦SES
	SSI	TIIB
	TIID	TIIF
2N3578	Δ♦SIX	151 - 2
	ESI	INL
		TIID
2N3579	SCA	106 - 37
	SSI	
2N3580	SCA	106 - 38
	SSI	
2N3581	SCA	105 - 10
	SSI	
2N3582	SCA	105 - 11
	SSI	
2N3583	Δ♦RCA	205 - 97
	♦FERB	KER
	MISI	♦MOTA
	STC	STI
	THCF	♦TII
	TIIB	UNI
2N3584	Δ♦RCA	205 - 98
	♦FERB	KER 244 - 11
	MISI	♦MOTA
	STC	STI
	THCF	♦TII
	TIIB	UNI
JAN2N3584	RCA	205 - 99
		253 - 55
2N3585	Δ♦RCA	205 -100
	♦FERB	KER 244 - 12
	MISI	♦MOTA
	STC	STI
	THCF	♦TII
	TIIB	UNI

TYPE No.	MFRS	Pg&Line
JAN2N3585	RCA	205 -101
		253 - 56
2N3587	ΔNSC	125 - 69
	NTR	SLD 270 - 16
		SST
2N3588	PHIC	82 - 44
2N3589	SLD	198 -101
	SSI	SST
	STC	STI
		TEC
2N3590	SLD	198 -102
	SSI	SST
	STC	STI
		TEC
2N3591	SSI	198 -103
	STI	TEC
2N3592	SSI	198 -104
	STI	TEC
2N3593	STI	195 - 19
		TEC
2N3594	SSI	195 - 20
	STI	TEC
2N3595	SSI	198 -105
	STC	STI
2N3596	SSI	198 -106
	STC	STI
2N3597	Δ♦SOD	223 - 46
	CSR	GSE 246 - 37
	IDI	KER
	SCA	SDE
	SSI	STC
	TEC	TRW
		UNI
2N3598	Δ♦SOD	223 - 47
	CRI	CSR 246 - 38
	GSE	IDI
	KER	SCA
	SDE	SSI
	STC	TEC
	TRW	UNI
2N3599	Δ♦SOD	223 - 48
	CSR	GSE 246 - 39
	IDI	KER
	SCA	SDE
	SSI	STC
	TEC	TRW
		UNI
2N3600	Δ♦RCA	120 - 21
	♦APX	ETC
	♦FERB	IDI
	NSC	NTR
	♦SCA	SES
	SSI	SST
2N3605	MISI	118 -105
	NSC	NTR 263 - 1
	♦SES	THCF
2N3605A	SES	131 - 16
		263 - 2
2N3606	MISI	118 -106
	NSC	NTR 263 - 23
	♦SES	THCF
2N3606A	SES	131 - 17
		263 - 24
2N3607	MISI	118 -107
	NSC	NTR 263 - 42
	♦SES	THCF
2N3608	♦GIC	151 - 94
	INL	
2N3609	♦GIC	151 - 95
		278 - 3
2N3611	Δ♦MOTA	168 - 71
	CSR	ESI
	♦ETC	GPD
	NJS	♦SES
	SST	STC
2N3612	Δ♦MOTA	168 - 72
	CSR	ESI
	♦ETC	GPD
	NJS	♦SES
	SST	STC
2N3613	Δ♦MOTA	168 - 73
	CRI	CSR
	ESI	♦ETC
	GPD	NJS
	♦SES	SST
		STC
2N3614	Δ♦MOTA	168 - 74
	CSR	ESI
	♦ETC	GPD
	NJS	♦SES
	SST	STC
2N3615	Δ♦MOTA	168 - 75
	CRI	CSR
	ESI	♦ETC
	GPD	NJS
	♦SES	SST
		STC
2N3616	Δ♦MOTA	168 - 76
	CSR	ESI
	♦ETC	GPD
	IDC	NJS
	♦SES	SST
		STC
2N3617	Δ♦MOTA	168 - 77
	CRI	CSR
	ESI	GPD
	♦SES	SST
		STC
2N3618	Δ♦MOTA	168 - 78
	CRI	CSR
	ESI	GPD
	♦SES	SST
		STC

TYPE No.	MFRS	Pg&Line
2N3619	Δ♦SOD	196 - 78
	CSR	SCA
	SDE	SSI
2N3620	CSR	196 - 79
	SCA	SSI
2N3621	CSR	205 -102
	IDI	KER
	SCA	SSI
2N3622	CSR	205 -103
	IDI	KER
	SCA	SDE
		SSI
2N3623	Δ♦SOD	196 - 80
	KER	SCA
	SDE	SSI
2N3624	SCA	196 - 81
		SSI
2N3625	CSR	205 -104
	IDI	KER
	SCA	SSI
2N3626	CSR	205 -105
	IDI	KER
	SCA	SDE
		SSI
2N3627	Δ♦SOD	196 - 82
	SCA	SDE
		SSI
2N3628	KER	196 - 83
	SCA	SSI
2N3629	CSR	205 -106
	IDI	KER
	SCA	SSI
2N3630	CSR	205 -107
	IDI	KER
	SCA	SDE
		SSI
2N3631	Δ♦SIX	155 - 77
2N3632	Δ♦RCA	202 - 80
	♦ALGG	♦FERB
	FSC	KER
	♦MOTA	♦MULB
	PHIC	♦PHIN
	PRE	♦RTCF
	RTN	SCA
	SEI	♦SES
	SSI	♦SSS
	TADI	♦TII
	TIIB	UPI
	UTS	♦VALG
2N3633	Δ♦TEC	129 - 48
	CSR	IDI 267 - 36
	SCA	SSI
2N3634	Δ♦MOTA	176 - 48
	CSR	ESI 257 - 72
	ETC	FSC
	NJS	NSC
	NTR	SCA
	SES	SLD
	SSI	SST
	STI	TADI
	TEC	♦TII
JAN2N3634	MOTA	176 - 49
	TEC	267 - 1
2N3635	Δ♦MOTA	176 - 50
	CSR	ESI 260 - 49
	ETC	FSC
	NJS	NSC
	NTR	PPC
	PRE	SEI
	SES	SLD
	SSI	SST
	STI	TADI
	TEC	♦TII
JAN2N3635	MOTA	174 -109
	TEC	267 - 11
2N3636	Δ♦MOTA	176 - 51
	CSR	ESI 257 - 73
	ETC	FSC
	NJS	NSC
	NTR	SCA
	SES	SLD
	SSI	SST
	STI	TADI
	TEC	♦TII
JAN2N3636	MOTA	174 -110
	TEC	267 - 2
2N3637	Δ♦MOTA	176 - 52
	CSR	ESI 260 - 50
	ETC	FSC
	NJS	NSC
	NTR	PPC
	PRE	SEI
	SES	SLD
	SSI	SST
	STI	TADI
	TEC	♦TII
JAN2N3637	MOTA	175 - 1
	TEC	267 - 12
2N3638	Δ♦FSC	99 - 60
	CRI	♦CSI 254 - 36
	CSR	ETC
	HZN	IDI
	♦MEHK	NASB
	NJS	NSC
	PRE	SDE
	SEI	♦SES
	SGAI	SLD
	SST	STI
	♦TSC	UPI
2N3638A	Δ♦FSC	100 - 2
	CRI	♦CSI 257 - 34
	CSR	ETC
	HZN	IDC
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N3638A		
(cont.)	IDI	
	MEHK	NASB
	NJS	NSC
	PRE	SDE
	SEI	♦SES
	SGAI	SLD
	SST	STI
	♦TSC	UPI
2N3639	△♦FSC	96- 42
	CSR	ESI	266- 3
	HZN	IDI
	♦MEHK	NASB
	NSC	SDE
	♦SES	SST
	STI	UPI
2N3640	△♦FSC	96- 43
	CSI	CSR	266- 4
	ESI	HZN
	IDI	♦MEHK
	NASB	NJS
	NSC	RTN
	SDE	♦SES
	SST	STI
	UPI	
2N3641	△♦FSC	131-104
	CRI	CSI
	CSR	HZN
	IDI	MEHK
	NASB	NJS
	NSC	♦SES
	SGAI	SLD
	SST	STI
	♦TSC	UPI
2N3642	△♦FSC	131-105
	CRI	CSI
	CSR	HZN
	IDI	MEHK
	NASB	NJS
	NSC	SLD
	SST	STI
	♦TSC	UPI
2N3643	△♦FSC	132- 9
	CRI	CSI
	CSR	HZN
	MEHK	NASB
	NJS	NSC
	PRE	SEI
	♦SES	SGAI
	SLD	SST
	STI	♦TSC
		UPI
2N3644	△♦FSC	100- 55
	CEI	CRI	258- 71
	CSR	ETC
	HZN	IDC
	IDI	MEHK
	NASB	NJS
	NSC	PRE
	SDE	SEI
	♦SES	SGAI
	SLD	SST
	STI	TSC
		UPI
2N3645	△♦FSC	100- 56
	CRI	CSI	258- 72
	CSR	ETC
	HZN	IDI
	MEHK	NASB
	NJS	NSC
	PRE	SDE
	SEI	♦SES
	SGAI	SLD
	SST	STI
	♦TSC	UPI
2N3646	△♦FSC	119- 26
	CRI	♦CSI	263-101
	CSR	HZN
	IDC	IDI
	ITT	MEHK
	NASB	NJS
	NSC	PRE
	SEI	SES
	SST	STI
	♦TSC	UPI
2N3647	△♦MOTA	136- 44
	CRI	CSR	263- 98
	HZN	IDI
	SCA	SES
		SSI
2N3648	△♦MOTA	136- 55
	CRI	CSR	265- 41
	HZN	SCA
		SSI
2N3659	CSR	191- 52
	IDI	SCA
	SSI	STC
		TEC
2N3660	△♦TEC	178- 21
	CSR	HZN
	SCA	SLD
	SOD	SSI
		SST
2N3661	△♦TEC	178- 22
	CSR	HZN
	SCA	SLD
	SOD	SSI
		SST
2N3662	△♦GESY	119-108
	MISI	NSC
	♦SES	SST
		THCF
2N3663	△♦GESY	119-109

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TYPE No.	MFRS	Pg&Line
2N3663		
(cont.)	KER	
	MISI	NSC
	♦SES	SST
		THCF
2N3664	SCA	192- 86
	SST	
2N3665	△♦TEC	192- 87
	CRI	CSR
	ETC	♦FSC
	HZN	IDI
	ITT	MEHK
	NASB	NJS
	NSC	NTR
	SCA	SDE
	SLD	SOD
	SSI	SST
2N3666	△♦TEC	192- 88
	CRI	CSR
	ETC	♦FSC
	HZN	IDI
	ITT	KER
	MEHK	NASB
	NJS	NSC
	NTR	SCA
	SDE	SLD
	SOD	SSI
	SST	TEC
2N3671	ΔRTN	108- 99
	CSI	CSR	259- 3
	IDI	ITT
	NTR	SCA
	SDE	♦SES
	SLD	SSI
		SST
2N3672	ΔRTN	106- 95
	CRI	CSI	259- 4
	CSR	ETC
	♦FSC	IDI
	ITT	NJS
	NTR	SCA
	SDE	♦SES
	SLD	SSI
		SST
2N3673	ΔRTN	102- 97
	CRI	CSI	259- 5
	ITT	MOTA
	NTR	SCA
	SDE	♦SES
		SSI
2N3675	ΔSTC	196- 84
	IDI	SCA	239- 65
	SDE	SOD
	SPC	SSI
		TEC
2N3676	ΔSTC	196- 85
	IDI	SCA	239- 66
	SDE	SOD
	SPC	SSI
2N3677	△♦TCY	105- 73
	SSI	SST	278- 4
		♦TEC
2N3678	CEI	147- 41
	CRI	CSR	260-110
	IDI	ITT
	NSC	PRE
	SCA	SEI
	SLD	SSI
		SST
2N3680	△♦TII	125- 31
	CRI	NSC	270- 17
	NTR	SGAI
	SLD	SSI
	SST	TADI
	TIIB	TIID
		TIIF
2N3681	△♦RTN	120- 38
	ETC	NJS
	SCA	SSI
2N3683	△♦KMC	120- 39
	CEI	FSC
		SCA
2N3684	△♦SODI	159- 62
	CRI	♦INL
	♦NPC	♦NSC
	♦SIX	TADI
2N3684A	ΔSODI	159- 63
	INL	
2N3685	△♦SODI	153- 66
	CSR	♦INL
	♦NPC	♦NSC
		♦SIX
2N3685A	ΔSODI	153- 67
	INL	
2N3686	△♦SODI	153- 29
	CSR	♦INL
	♦NPC	♦NSC
		♦SIX
2N3686A	ΔSODI	153- 30
	INL	
2N3687	△♦SODI	153- 19
	CSR	♦INL
	♦NPC	♦NSC
		♦SIX
2N3687A	ΔSODI	153- 20
	INL	

TYPE No.	MFRS	Pg&Line
2N3688	△♦FSC	119- 39
	CSI	CSR
	IDC	NPC
2N3689	△♦FSC	119- 40
		CSI
2N3690	△♦FSC	119- 41
		CSI
2N3691	△♦FSC	118- 40
	CSI	CSR
	ETC	HZN
	IDI	MEHK
	NASB	NJS
	NPC	NSC
	♦SES	SLD
	SST	STI
	♦TSC	UPI
2N3692	△♦FSC	118- 41
	CRI	CSI
	CSR	ETC
	HZN	IDI
	MEHK	NASB
	NJS	NPC
	NSC	♦SES
	SLD	SST
	STI	♦TSC
		UPI
2N3693	△♦FSC	118- 42
	♦CSI	CSR
	ETC	HZN
	IDI	♦MEHK
	NASB	NJS
	NPC	NSC
	SGAI	SLD
	SST	STI
	♦TSC	UPI
2N3694	△♦FSC	118- 43
	♦CSI	CSR
	ETC	HZN
	IDC	IDI
	♦MEHK	NASB
	NJS	NPC
	NSC	SGAI
	SLD	SST
	STI	♦TSC
		UPI
2N3696	ESI	150- 16
2N3698	ESI	150- 6
2N3700	△♦RTN	138- 59
	ALGG	CSI
	CSR	ESI
	♦FSC	HZN
	ITT	NSC
	NTR	SCA
	SDE	♦SES
	SLD	SSI
	SST	TADI
	TEC	♦VALG
JAN2N3700	RTN	138- 60
	TEC	
2N3701	△♦RTN	138- 41
	CRI	CSI
	CSR	♦FSC
	HZN	IDI
	ITT	NTR
	SCA	SDE
	♦SES	SLD
	SSI	SST
	TEC	UPI
2N3702	△♦TII	103- 82
	ALGG	CRI
	CSR	NPC
	NSC	NTR
	PIHS	PRE
	SEI	♦SES
	SLD	SST
	STI	TIIB
	TIIC	TIID
		UPI
2N3703	△♦TII	103- 83
	ALGG	CRI
	CSR	NSC
	NTR	PIHS
	♦SES	SLD
	SST	STI
	TIIB	TIIC
	TIID	UPI
2N3704	△♦TII	133- 35
	ALGG	CRI
	CSR	NSC
	NTR	PRE
	SEI	♦SES
	SLD	SST
	STI	TIIB
	TIIC	TIID
		UPI
2N3705	△♦TII	133- 36
	ALGG	CRI
	CSR	NSC
	NTR	♦SES
	SLD	SST
	STI	TIIB
	TIIC	TIID
		UPI
2N3706	△♦TII	133- 37
	ALGG	CEI
	CRI	CSR
	NSC	NTR
	♦SES	SLD
	SST	STI
	TIIB	TIIC
	TIID	UPI
2N3707	△♦TII	132- 80

cont.next col.

TYPE No.	MFRS	Pg&Line
2N3707		
(cont.)	CRI	
	CSR	NPC
	NSC	NTR
	PRE	SEI
	♦SES	SLD
	SST	STI
	TIIB	TIIC
	TIID	UPI
2N3708	△♦TII	132- 81
	CRI	CSR
	IDC	NPC
	NSC	NTR
	♦SES	SLD
	SST	STI
	TIIB	TIIC
	TIID	UPI
2N3709	△♦TII	132- 82
	CRI	CSR
	NPC	NSC
	NTR	♦SES
	SLD	SST
	STI	TIIB
	TIIC	TIID
		UPI
2N3710	△♦TII	132- 83
	CRI	CSR
	NPC	NSC
	NTR	♦SES
	SLD	SST
	STI	TIIB
	TIIC	TIID
		UPI
2N3711	△♦TII	132- 84
	CRI	CSR
	NPC	NSC
	NTR	PRE
	SEI	♦SES
	SLD	SST
	STI	TIIB
	TIIC	TIID
		UPI
2N3712	CRI	145- 2
	HSC	IDI
	♦MOTA	SCA
	SEN	SES
	SLD	SST
	STC	TEC
		UPI
2N3713	△♦MOTA	222- 7
	CSR	♦ETC	241- 61
	ETIF	♦FSC
	GIC	IDC
	IDI	KER
	NASB	NJS
	PPC	PRE
	♦SCA	SDE
	SEI	SEN
	♦SES	SOD
	SPC	♦SSI
	STC	TEC
	♦TII	TIIB
	TIID	UPI
2N3714	△♦MOTA	222- 8
	CSR	♦ETC	241- 62
	ETIF	♦FSC
	HZN	IDI
	KER	NASB
	NJS	PPC
	PRE	♦SCA
	SDE	SEI
	SEN	♦SES
	SOD	SPC
	♦SSI	SST
	STC	TEC
	♦TII	TIIB
	TIID	UPI
2N3715	△♦MOTA	222- 9
	CEI	CRI	241- 63
	CSR	ESI
	♦ETC	ETIF
	♦FSC	HZN
	IDI	KER
	NASB	NJS
	PPC	PRE
	♦SCA	SDE
	SEI	SEN
	♦SES	SOD
	SPC	♦SSI
	SST	STC
	TEC	♦TII
	TIIB	TIID
		UPI
JAN2N3715	MOTA	222-104
	TEC	TII	245- 81
2N3716	△♦MOTA	222- 10
	CEI	CRI	241- 64
	CSR	ESI
	♦ETC	ETIF
	♦FSC	HZN
	IDI	KER
	NASB	NJS
	PPC	PRE
	♦SCA	SDE
	SEI	SEN
	♦SES	SOD
	SPC	♦SSI
	SST	STC
	TEC	♦TII
	TIIB	TIID
		UPI
JAN2N3716	MOTA	222-105
	TEC	TII	245- 82
2N3718	SLD	197- 99

TYPE No.	MFRS	Pg&Line
2N3719	△♦MOTA	176-102
	CSR	HSC	252- 55
	KER	PPC
	SCA	SOD
	SSI	STI
	TEC	♦TII
		TIIB
2N3720	△♦MOTA	176-103
	CSR	HSC	252- 56
	KER	PPC
	SCA	SES
	SLD	SOD
	SSI	SST
	TEC	♦TII
		TIIB
2N3721	△♦GESY	116- 95
	CSR	NSC
	♦SES	SLD
	♦SPR	SST
		UPI
2N3722	△♦FSC	147- 60
	CSR	IDI	263- 54
	NSC	NTR
	RTN	SCA
	SDE	♦SES
		SSI
2N3723	△♦FSC	147- 61
	CSR	IDI	263- 61
	KER	NSC
	NTR	SCA
		SSI
2N3724	△♦FSC	147- 62
	CRI	CSR	262- 99
	ETC	ETIF
	HSC	IDI
	♦ITT	ITTB
	KER	MISI
	♦MOTA	NASB
	NJS	NSC
	NTR	PRE
	RTN	SEI
	SES	SGAI
	SLD	♦SPR
	SST	TEC
	♦THCF	♦TII
	TIIB	TIID
	TIIF	♦TSC
		UPI
2N3724A	△♦TII	192- 89
	CSR	IDI	262-100
	KER	NASB
	NSC	NTR
	RTN	SCA
	SES	TIIB
	TIID	TIIF
	TSC	UPI
2N3725	△♦FSC	147- 63
	CRI	CSI	262-101
	CSR	ETC
	HSC	IDI
	♦ITT	ITTB
	KER	MISI
	♦MOTA	NASB
	NJS	NSC
	NTR	RTN
	SES	SGAI
	SLD	♦SPR
	SST	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	♦TSC
		UPI
2N3725A	△♦TII	192- 90
	CSI	CSR	262-102
	ESI	IDI
	KER	NASB
	NSC	NTR
	RTN	SCA
	SES	TIIB
	TIID	TIIF
		UPI
2N3726	△♦FSC	106- 32
	CRI	MEHK
	♦MOTA	NSC
	NTR	RTN
	SES	SGAI
	SSI	STI
	TADI	UPI
2N3727	△♦FSC	106- 33
	CSR	MEHK
	♦MOTA	NSC
	NTR	RTN
	STI	TADI
		UPI
2N3728	△♦FSC	136-108
	CRI	NTR	270- 18
		RTN
2N3729	△♦FSC	136-109
	NTR	RTN	270- 19
	STI	UPI
2N3730	GPD	165- 81
2N3731	CSR	164- 97
	GPD	
2N3732	GPD	164- 85
2N3733	△♦RCA	202- 81
	CRI	♦FERB
	KER	RTN
	♦SES	♦SSS
	SST	TADI
	♦TII	TIIB
2N3734	△♦MOTA	191- 34
	CSR	ETC	263- 25
	♦FSC	HSC

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N3734		
(cont.)	IDI	
	ITT	KER
	NASB	NJS
	NSC	NTR
	PRE	RTN
	SCA	SEI
	SES	STI
	♦TII	TIIB
		UPI
2N3735	△♦MOTA	191 - 35
	CSR	ESI 261 - 75
	ETC	HSC
	IDI	KER
	NASB	NJS
	RTN	SCA
	SES	STI
	♦TII	TIIB
JAN2N3735	RTN	190 - 26
	TEC	266 - 64
2N3736	△♦MOTA	139 - 43
	ITT	RTN 263 - 26
	SSI	UPI
2N3737	△♦MOTA	139 - 24
	ESI	IDC 261 - 76
	RTN	SSI
JAN2N3737	RTN	139 - 25
	TEC	266 - 65
2N3738	△♦MOTA	202-104
	IDI	KER
	♦MISI	SCA
	SSI	STC
	STI	♦THCF
2N3739	△♦MOTA	202-105
	KER	STC
		STI
JAN2N3739	MOTA	201-110
		252 - 94
2N3740	△♦MOTA	179 - 40
	CSR	ESI
	♦FSC	KER
	♦MISI	PPC
	PRE	SEI
	SES	SLD
	SOD	SST
	STC	TEC
		♦THCF
JAN2N3740	MOTA	179 - 41
	TEC	252 - 86
2N3740A	△♦MOTA	179 - 42
	CSR	SES
		STC
2N3741	△♦MOTA	179 - 43
	CSR	ESI
	♦FSC	KER
	♦MISI	PPC
	PRE	SEI
	SES	SLD
	SOD	SST
	STC	TEC
		♦THCF
JAN2N3741	MOTA	179 - 44
	TEC	252 - 87
2N3741A	△♦MOTA	179 - 45
	CSR	SES
		STC
2N3742	△♦MOTA	192 - 91
	ETC	♦FSC
	IDI	KER
	NSC	NTR
	SCA	SSI
	STC	STI
JAN2N3742	none	192 - 92
2N3743	△♦MOTA	176 - 53
	CSR	FSC
	NTR	SCA
	SSI	STC
	STI	TEC
JAN2N3743	MOTA	176 - 54
	TEC	
2N3744	△SOD	211 - 47
	♦AMC	GSE 246-102
	IDI	KER
	PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N3745	△SOD	211 - 48
	♦AMC	GSE 246-103
	IDI	KER
	PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N3746	△SOD	211 - 49
	♦AMC	GSE 246-104
	IDI	KER
	PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N3747	△SOD	211 - 50
	♦AMC	GSE 249 - 50
	IDI	KER
	♦PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N3748	△SOD	211 - 51
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3748		
(cont.)	♦AMC	249 - 51
	GSE	IDI
	KER	♦PPC
	SCA	SLD
	SSI	SST
	STC	TEC
	TRW	UNI
2N3749	△SOD	211 - 52
	♦AMC	GSE 249 - 52
	IDI	KER
	♦PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
JAN2N3749	AMC	210 - 10
	SOD	TEC 245 - 10
2N3750	△SOD	211 - 53
	♦AMC	GSE 251 - 20
	IDI	KER
	PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N3751	△SOD	211 - 54
	♦AMC	GSE 251 - 21
	IDI	KER
	PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N3762	△♦MOTA	176 - 41
	ESI	HSC 257 - 97
	RTN	SCA
	SSI	STI
2N3763	△♦MOTA	176 - 42
	CSR	ESI 256 - 98
	HSC	SCA
	SES	SSI
		STI
JAN2N3763	MOTA	176 - 31
		266 - 60
2N3764	△♦MOTA	108 - 23
	HSC	RTN 257 - 98
	SES	SSI
2N3765	△♦MOTA	107-104
	HSC	SES 256 - 99
		SSI
JAN2N3765	MOTA	107-105
		266 - 61
2N3766	△♦MOTA	202-106
	CSR	♦FSC
	GSE	IDI
	KER	NJS
	PPC	PRE
	SDE	SEI
	SES	SLD
	SOD	SSI
	SST	STC
		TEC
2N3767	△♦MOTA	202-107
	CSR	♦FSC
	GSE	IDI
	KER	NJS
	PPC	PRE
	SDE	SEI
	SES	SLD
	SOD	SSI
	SST	STC
		TEC
2N3771	△♦RCA	222 - 11
	AMC	CRI
	CSR	ESI
	ETIF	♦FSC
	HZN	IDC
	IDI	KER
	MISI	♦MOTA
	♦MULB	NASB
	NJS	♦NPC
	NSC	♦PHIN
	♦PPC	PRE
	RTCF	SDE
	SEI	SEN
	♦SES	SGAI
	SLD	♦SOD
	♦SPC	♦SSI
	SST	♦STC
	TEC	♦THCF
	♦TII	TIIB
	UPI	♦VALG
		♦WESY
JAN2N3771	RCA	222-106
	SPC	241 - 41
2N3772	△♦RCA	222 - 12
	AMC	CEI
	CRI	CSR
	ESI	ETIF
	♦FSC	HZN
	IDC	IDI
	KER	MISI
	♦MOTA	♦MULB
	NASB	NJS
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3772		
(cont.)	NPC	
	NSC	♦PHIN
	♦PPC	PRE
	RTCF	SDE
	SEI	SEN
	♦SES	SGAI
	SLD	♦SOD
	♦SPC	♦SSI
	SST	♦STC
	TEC	♦THCF
	♦TII	TIIB
	UPI	♦VALG
		♦WESY
JAN2N3772	RCA	222-107
	SPC	241 - 40
2N3773	△♦RCA	222 - 93
	AMC	CEI
	ESI	ETC
	HZN	IDI
	KER	MISI
	♦MOTA	NASB
	NJS	♦NPC
	NSC	♦PPC
	PRE	SDE
	SEI	SEN
	♦SES	SGAI
	♦SOD	♦SPC
	♦SSI	SST
	♦STC	TEC
	♦THCF	UPI
		♦WESY
2N3774	△♦STC	177 - 44
	CSR	SOD 239 - 49
	SSI	♦TCY
2N3775	△♦STC	177 - 45
	CSR	PPC 239 - 50
	SOD	SSI
		♦TCY
2N3776	△♦STC	177 - 46
	CSR	PPC 239 - 51
	SOD	SSI
		♦TCY
2N3777	△♦STC	177 - 47
	CRI	CSR 239 - 52
	KER	PPC
	SOD	SSI
		♦TCY
2N3778	△♦STC	177 - 48
	CSR	PPC 239 - 53
	SOD	SSI
		♦TCY
2N3779	△♦STC	177 - 49
	CSR	SOD 239 - 54
	SSI	♦TCY
2N3780	△♦STC	177 - 50
	CSR	SOD 239 - 55
	SSI	♦TCY
2N3781	△♦STC	177 - 51
	CSR	SOD 239 - 56
	SSI	♦TCY
2N3782	△STC	177 - 52
	CSR	SOD 239 - 57
	SSI	♦TCY
2N3783	△♦MOTA	86 - 41
		SSI
2N3784	△♦MOTA	86 - 39
		SSI
2N3785	△♦MOTA	86 - 40
		SSI
2N3788	CSR	218 - 28
	MOTA	SOD
	SPC	SSI
		STC
2N3789	△♦MOTA	184-105
	CSR	ETIF
	♦FSC	KER
	NASB	NJS
	PPC	♦SES
	SOD	♦SSI
	SST	STC
	TEC	♦TII
	TIIB	TIID
2N3790	△♦MOTA	184-106
	CSR	ETIF
	♦FSC	KER
	NASB	NJS
	PPC	♦SES
	SOD	♦SSI
	SST	STC
	TEC	♦TII
	TIIB	TIID
2N3791	△♦MOTA	184-107
	CSR	ETIF
	♦FSC	KER
	NASB	NJS
	PPC	♦SES
	SOD	♦SSI
	SST	STC
	TEC	♦TII
	TIIB	TIID
JAN2N3791	MOTA	185 - 2
	TII	245 - 83
2N3792	△♦MOTA	184-108
	CSR	ETIF
	♦FSC	KER
	NASB	NJS
	PPC	♦SES
	SOD	♦SSI
	SST	STC
	TEC	♦TII
	TIIB	TIID
JAN2N3792	MOTA	185 - 3
	TII	245 - 84

TYPE No.	MFRS	Pg&Line
2N3793	△NSC	122 - 75
	NTR	PIHS
	♦SES	SLD
	SST	UPI
2N3794	△NSC	122 - 76
	NTR	PIHS
	♦SES	SLD
	SST	UPI
2N3795	CSR	177 - 53
	SSI	238 - 85
2N3796	△♦MOTA	153 - 94
2N3797	△♦MOTA	153 - 95
2N3798	△♦MOTA	104 - 81
	IDI	MEHK
	SCA	SSI
	♦TII	TIID
2N3798A	△♦MOTA	103 - 47
2N3799	△♦MOTA	104 - 82
	IDI	MEHK
	NSC	NTR
	RTN	SCA
	SSI	TADI
	♦TII	TIID
2N3799A	△♦MOTA	103 - 48
2N3800	FSC	97-101
	NSC	NTR 279 - 17
	RTN	STI
		TADI
2N3801	FSC	97-102
	NTR	RTN 279 - 18
	STI	TADI
2N3802	FSC	97-103
	NTR	RTN 270 - 20
	STI	TADI
2N3803	NTR	97-104
	RTN	STI 270 - 21
		TADI
2N3804	FSC	97-105
	NTR	RTN 270 - 22
	STI	TADI
2N3804A	FSC	97-106
	NTR	RTN 270 - 23
	STI	TADI
2N3805	FSC	97-107
	NTR	PRE 270 - 24
	RTN	SEI
	STI	TADI
2N3805A	FSC	97-108
	NTR	RTN 270 - 25
	STI	TADI
2N3806	△♦MOTA	107 - 78
	FSC	NSC 279 - 19
	NTR	PRE
	RTN	SEI
	SLD	SST
	STI	TADI
	♦TII	TIIF
2N3807	△♦MOTA	107 - 79
	CSR	FSC 279 - 20
	NSC	NTR
	PRE	RTN
	SEI	SLD
	SST	STI
	TADI	♦TII
		TIIF
2N3808	△♦MOTA	107 - 80
	CSR	FSC 270 - 26
	NSC	NTR
	PRE	RTN
	SEI	SLD
	SST	STI
	TADI	♦TII
		TIIF
2N3809	△♦MOTA	107 - 81
	CSR	FSC 270 - 27
	NSC	NTR
	RTN	SLD
	SST	STI
	TADI	♦TII
		TIIF
2N3810	△♦MOTA	107 - 82
	FSC	NSC 270 - 28
	NTR	RTN
	SES	SLD
	SST	STI
	TADI	♦TII
	TIIB	TIIF
JAN2N3810	MOTA	270 - 29
	NSC	RTN
		TII
2N3810A	△♦MOTA	107 - 83
	FSC	NSC 270 - 30
	NTR	RTN
	SLD	SST
	STI	TADI
2N3811	△♦MOTA	107 - 84
	FSC	NSC 270 - 31
	NTR	RTN
	SES	SLD
	SST	STI
	TADI	♦TII
	TIIB	TIIF
JAN2N3811	MOTA	270 - 32
		NSC
2N3811A	△♦MOTA	107 - 85
	FSC	NSC 270 - 33
	NTR	RTN
	SLD	SST
		TADI
2N3812	△♦MOTA	97 - 69
	NTR	RTN 279 - 21
2N3813	△♦MOTA	97 - 70
	NTR	RTN 279 - 22

TYPE No.	MFRS	Pg&Line
2N3814	△♦MOTA	97 - 71
	NTR	RTN 270 - 34
2N3815	△♦MOTA	97 - 72
	NTR	RTN 270 - 35
2N3816	△♦MOTA	97 - 73
	NTR	RTN 270 - 36
2N3816A	△♦MOTA	97-109
	NTR	RTN 270 - 37
2N3817	△♦MOTA	97 - 74
	NTR	RTN 270 - 38
2N3817A	△♦MOTA	97-110
	NTR	RTN 270 - 39
2N3818		SCA 204 - 83
		SSI
2N3819	△♦TII	160 - 11
	MISI	NSC
	♦PHIN	RTCF
	SLCB	SLD
	THCF	TIIB
	TIIC	TIID
	TIIF	♦VALG
2N3820	△♦TII	152 - 7
	NSC	SLD
	TIIB	TIIC
	TIID	♦VALG
2N3821	△♦TII	159 - 39
	ESI	INL
	♦MOTA	♦NSC
	♦SIX	SLD
	♦SODI	TIIB
	TIID	TIIF
		♦TSC
JAN2N3821	MOTA	155 - 78
	TII	TSC
2N3822	△♦TII	159 - 40
	INL	♦MOTA
	♦NSC	♦SIX
	SLD	♦SODI
	TIIB	TIID
	TIIF	TSC
		♦VALG
JAN2N3822	MOTA	155 - 79
	TII	TSC
2N3823	△♦TII	155 - 80
	♦AKER	ELMA
	ESI	INL
	MEHK	MISI
	♦MOTA	♦MULB
	♦NSC	♦PHIN
	♦RTCF	♦SIX
	SLD	♦SODI
	TADI	THCF
	TIIB	TIID
	TIIF	♦TSC
		♦VALG
JAN2N3823	MOTA	155 - 81
	TII	TSC
2N3824	△♦TII	155 - 82
	INL	♦MOTA
	NSC	♦SIX
	SLD	♦SODI
	TIIB	TIID
	TIIF	TSC
2N3825	NSC	122 - 87
		♦SES
2N3827	NPC	133 - 59
	NSC	
2N3828	♦SES	128 - 69
2N3829	△♦TII	104 - 67
	IDI	SCA 263-102
	SSI	TIIB
		TIID
2N3830	CSR	197-100
	IDI	KER 259 - 70
	RTN	SCA
	SDE	♦SES
	SSI	TIIF
2N3831	CSR	197-101
	IDI	KER 259 - 71
	RTN	SCA
	SDE	♦SES
	SSI	TIIF
2N3832	CEI	120 - 8
	ETC	NJS 266-101
2N3833	△♦TII	148 - 84
2N3834	△♦TII	148 - 85
		CSR
2N3835	△♦TII	148 - 86
2N3838	△♦TII	259 - 6
	♦MOTA	RTN 268 - 42
	TIIB	TIIF
JAN2N3838	MOTA	259 - 59
		268 - 43
2N3839	△♦RCA	121 - 50
	FSC	IDI
	KMC	♦MOTA
	SCA	SSI
2N3840	△♦SPR	105 - 75
	IDC	SES 278 - 5
	TADI	♦TCY
2N3841	STI	99 - 5
	TADI	278 - 6
2N3842	STI	98-110
	TADI	278 - 7
2N3843	△♦GESY	117 - 72
	CSR	IDC
	SES	SLD
	♦SPR	SST
2N3843A	△♦GESY	117 - 73
	CSR	IDC
	♦SES	SLD
	♦SPR	SST
2N3844	△♦GESY	117 - 90
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TYPE No.	MFRS	Pg&Line
2N3844 (cont.)	CSR	
	IDC	
	SES	
	SLD	♦SPR
		SST
2N3844A	△♦GESY	117 - 91
	CSR	IDC
	♦SES	SLD
	♦SPR	SST
2N3845	△♦GESY	118 - 1
	CSR	IDC
	SES	SLD
	♦SPR	SST
2N3845A	△♦GESY	118 - 2
	CSR	IDC
	♦SES	SLD
	♦SPR	SST
2N3846	△♦TII	230 - 4
	IDI	KER 244 - 21
	PPC	PTI
	SES	STC
	TEC	TIIB
		TIID
JAN2N3846	none	230 - 5
		248-107
2N3847	△♦TII	230 - 6
	IDI	KER 244 - 22
	PPC	PRE
	PTI	SEI
	SES	STC
	TEC	TIIB
		TIID
JAN2N3847	none	230 - 7
		248-108
2N3848	IDI	230 - 8
	KER	STC 244 - 23
	TEC	TII
		TIIB
2N3849	IDI	230 - 9
	KER	STC 244 - 24
	TEC	TII
		TIIB
2N3850	△♦UNI	212 - 94
	GSE	IDI 244 - 99
	KER	SLD
	SOD	SSI
	SST	STC
	TEC	TRW
2N3851	△♦UNI	212 - 95
	GSE	IDI 244-100
	KER	SOD
	SSI	STC
		TRW
2N3852	△♦UNI	212 - 96
	GSE	IDI 244-101
	KER	SOD
	SSI	STC
		TRW
2N3853	GSE	212 - 97
	IDI	KER 244-102
	SOD	SSI
	STC	TEC
	TRW	♦UNI
2N3854	△♦GESY	117 - 98
	CSR	IDC
	SES	SLD
	♦SPR	SST
	STI	UPI
2N3854A	△♦GESY	117 - 99
	CSR	IDC
	SES	SLD
	♦SPR	SST
		UPI
2N3855	△♦GESY	118 - 3
	CSR	IDC
	SES	SLD
	♦SPR	SST
	STI	UPI
2N3855A	△♦GESY	118 - 4
	CSR	IDC
	SES	SLD
	♦SPR	SST
		UPI
2N3856	△♦GESY	118 - 6
	CSR	IDC
	SES	SLD
	♦SPR	SST
	STI	UPI
2N3856A	△♦GESY	118 - 7
	CSR	IDC
	SES	SLD
	♦SPR	SST
		UPI
2N3857	STI	108 - 58
	TADI	
2N3858	△♦GESY	117 - 92
	CSR	IDC
	NSC	NTR
	♦SES	SLD
	♦SPR	SST
	STI	UPI
2N3858A	△♦GESY	117 - 93
	CSR	IDC
	NSC	NTR
	SES	SLD
	♦SPR	SST
		UPI
2N3859	△♦GESY	117 - 94
	CSR	IDC
	NSC	NTR
	♦SES	SLD
	♦SPR	SST
	STI	UPI
2N3859A	△♦GESY	117 - 95
	CSR	IDC
	NSC	NTR
	SES	SLD
	♦SPR	SST
		UPI
2N3860	△♦GESY	117 - 96
	CSR	IDC
	NSC	NTR
	♦SES	SLD
	♦SPR	SST
	STI	UPI
2N3861	SSI	198-107
	STC	STI
		UPI
2N3862	△TEC	135 - 14
	IDI	SCA 266 - 62
		SSI
2N3863	△STC	219-110
	CEI	CSR 239 - 4
	GIC	IDI
	PPC	PRE
	SCA	SDE
	SEI	SLD
	SOD	SPC
	SSI	SST
		TEC
2N3864	△STC	218 - 29
	CSR	IDI 239 - 5
	PPC	SCA
	SDE	SLD
	SOD	SPC
	SSI	SST
		TEC
2N3865	△STC	218 - 30
	CSR	IDI 239 - 6
	SCA	SDE
	SPC	SSI
2N3866	△♦RCA	192 - 93
	ALGG	♦APX
	BELI	CEI
	CSR	ESI
	♦FERB	HZN
	IDC	KER
	♦MEHK	♦MOTA
	♦MULB	NJS
	♦PHIC	♦PHIN
	PRE	RTN
	SEI	♦SES
	SGAI	♦SSS
	SST	TADI
	♦TII	TIIB
	♦TSC	UPI
		♦VALG
JAN2N3866	MOTA	192 - 94
	RCA	TSC
2N3866A	△MOTA	192 - 95
		TSC
JAN2N3866A	MOTA	192 - 96
	RCA	TSC
2N3867	△♦MOTA	176-104
	CSR	SCA 234 - 57
	SLD	SSI
	SST	TEC
JAN2N3867	MOTA	177 - 74
	TEC	260 - 69
2N3868	△♦MOTA	176-105
	CSR	SCA 234 - 58
	SLD	SSI
	SST	TEC
JAN2N3868	MOTA	177 - 75
	TEC	260 - 70
2N3869	△NECJ	190 - 27
	CSR	IDI
	SCA	SSI
2N3876	△♦TRW	223 - 49
	KER	SSI
2N3877	△♦GESY	116 - 96
	IDC	NSC
	NTR	SES
	♦SPR	STI
		UPI
2N3877A	△♦GESY	116 - 97
	IDC	NSC
	NTR	SES
	♦SPR	STI
		UPI
2N3878	△♦RCA	205-108
	AMC	CSR
	GSE	IDI
	KER	PPC
	SDE	SES
	SLD	SOD
	SSI	SST
	STC	TEC
	TRW	UNI
2N3879	△♦RCA	205-109
	AMC	CSR 250 - 18
	GSE	IDI
	KER	PPC
	SCA	SDE
	SES	SLD
	SOD	SSI
	SST	STC
	TEC	TRW
	UNI	UPI
2N3880	△♦KMC	120 - 94
	FSC	SCA
2N3881	CEI	141 - 38
	IDI	SCA
		SSI
2N3883	△♦MOTA	90 - 18
	IDI	SSI 254 - 13
2N3900	△♦GESY	116 - 98
	CSR	IDC
	NSC	NTR
	♦SES	♦SPR
2N3900A	△♦GESY	116 - 99
	CSR	IDC
	NSC	NTR
	♦SES	♦SPR
2N3901	△♦GESY	116-100
	IDC	NSC
		SPR
2N3902	△♦DEL	226 - 73
	CRI	ETIF 238 - 38
	IDI	♦MOTA
	PPC	SCA
	SES	♦SOD
	SPC	SSI
	STC	♦TII
		TIIB
JAN2N3902	DEL	226 - 74
	MOTA	SPC 240 - 5
2N3903	△♦MOTA	132 - 10
	CRI	CSI 261 - 40
	CSR	FSC
	HZN	ITT
	MEHK	NASB
	NPC	NSC
	NTR	PIHS
	PRE	SEI
	♦SES	SLD
	♦SPR	SST
	STI	♦TII
	TIIB	TIIC
	TSC	UPI
2N3905	△♦MOTA	102 - 98
	CRI	CSI 258 - 73
	CSR	FSC
	HZN	ITT
	MEHK	NASB
	NPC	NSC
	NTR	PIHS
	PRE	SEI
	♦SES	SLD
	♦SPR	SST
	STI	TEC
	♦TII	TIIB
	TIIC	TSC
		UPI
2N3906	△♦MOTA	102-107
	CRI	CSI 261 - 41
	CSR	FSC
	HZN	ITT
	MEHK	NASB
	NPC	NSC
	NTR	PIHS
	PRE	SEI
	♦SES	SLD
	♦SPR	SST
	STI	TEC
	♦TII	TIIB
	TIIC	TSC
		UPI
2N3907	CRI	125 - 32
	CSR	INL 270 - 40
	NSC	NTR
	SLD	SST
		TADI
2N3908	INL	125 - 33
	NSC	NTR 270 - 41
	SLD	SST
		TADI
2N3909	△♦TII	151 - 3
	ESI	INL
	♦MOTA	♦SIX
	SLD	♦SODI
	TIIB	TIID
		TIIF
2N3909A	△♦TII	151 - 4
	INL	♦MOTA
	SLD	TIID
2N3910	△♦RTN	107 - 72
	CSR	SDE 278 - 8
	SSI	TADI
		♦TCY
2N3911	△♦RTN	107 - 73
	SDE	SSI 278 - 9
	TADI	♦TCY
2N3912	△♦RTN	107 - 74
	SDE	SSI 278 - 10
	TADI	♦TCY
2N3913	△♦RTN	105 - 64
	SDE	SSI 278 - 11
	TADI	♦TCY
2N3914	△♦RTN	105 - 77
	SDE	SSI 278 - 12
	TADI	♦TCY
2N3915	△♦RTN	105 - 87
	SDE	SSI 278 - 13
	TADI	♦TCY
2N3916	SCA	195 - 21
	SSI	
2N3917	ETC	190 - 59
	IDI	SCA
	SDE	SOD
	SSI	TRW
2N3918	IDI	190 - 60
	SCA	SDE
	SOD	SSI
		TRW
2N3919	GSE	205-110
	IDI	SCA 267 - 3
	SDE	SSI
		TRW
2N3920	GSE	206 - 1
	IDI	SCA 267 - 4
	SDE	SSI
		TRW
2N3921	△♦TSC	154 - 75
	INL	NSC 270 - 42
	♦SIX	♦SODI
2N3922	△♦TSC	154 - 76
	INL	NSC 270 - 43
	♦SIX	♦SODI
2N3923	△♦FSC	145 - 3
	IDI	SCA
	SSI	TEC
2N3924	△♦MOTA	195 - 22
	KER	PHIC
	♦PHIN	♦RTCF
	♦SES	♦SSS
	TADI	TEC
	TII	TIIB
		♦VALG
2N3925	△♦MOTA	197 - 85
		KER
2N3926	△♦MOTA	198-108
	KER	PHIC
	♦PHIN	♦RTCF
	♦SES	SSI
	♦SSS	TADI
	TII	TIIB
		♦VALG
2N3927	△♦MOTA	202 - 76
	KER	PHIC
	♦PHIN	♦RTCF
	♦SES	SSI
	♦SSS	TADI
	TII	TIIB
		♦VALG
2N3928	△SOD	196 - 86
	KER	SDE 258 - 61
2N3929	△SOD	206 - 2
	CSR	IDI 258 - 62
		KER
2N3930	♦FSC	106 - 6
	IDI	SCA
	SGAI	STI
2N3931	♦FSC	109 - 96
	IDI	SCA
	SGAI	STI
2N3932	NSC	120 - 6
	NTR	♦SCA
		SSI
2N3933	ESI	120 - 7
	NSC	NTR
	PRE	♦SCA
	SEI	SSI
2N3934	△♦TSC	154 - 77
		270 - 44
2N3935	△♦TSC	154 - 78
		270 - 45
2N3945	△TEC	192 - 97
	CSR	ETC
	FSC	IDI
	ITT	NASB
	NJS	NSC
	NTR	SCA
	SDE	SLD
	SSI	SST
2N3946	△♦MOTA	133 - 87
	CSR	IDI 262 - 36
	NASB	NJS
	NSC	NTR
	SCA	SSI
		TSC
2N3947	△♦MOTA	134 - 27
	CSR	ETC 263 - 77
	FSC	IDI
	NASB	NJS
	NSC	NTR
	PRE	SCA
	SEI	SSI
		TSC
2N3948	△♦MOTA	192 - 98
	CSR	IDI
	KER	SCA
	SES	SSI
	TIIB	TRW
2N3950	△♦MOTA	212 - 98
	KER	SES
		SSI
2N3953	△♦KMC	120-102
	SCA	SSI
2N3954	△♦SODI	154 - 79
	♦INL	NSC 270 - 46
		TIID
2N3954A	△♦SODI	154 - 80
	INL	NSC 270 - 47
		TIID
2N3955	△♦SODI	154 - 81
	♦INL	NSC 270 - 48
	SIX	TIID
		TSC
2N3955A	△♦SODI	154 - 82

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TYPE No.	MFRS	Pg&Line
2N3955A (cont.)	INL	270 - 49
	NSC	TIID
		TSC
2N3956	△♦SODI	154 - 83
	♦INL	NSC 270 - 50
	SIX	TIID
		TSC
2N3957	△♦SODI	154 - 84
	♦INL	NSC 270 - 51
	SIX	TIID
		TSC
2N3958	△♦SODI	154 - 85
	♦INL	NSC 270 - 52
	PRE	SEI
	SIX	TIID
		TSC
2N3959	△♦MOTA	136 - 76
	HSC	RTN 267 - 34
	SCA	SSI
JAN2N3959	none	136 - 71
2N3960	△♦MOTA	136 - 83
	HSC	RTN 267 - 37
	SCA	SSI
JAN2N3960	MOTA	136 - 77
2N3961	△♦MOTA	197-102
	KER	SCA
		SSI
2N3962	△♦FSC	103 - 49
	CSR	HZN
	IDI	INTG
	ITT	ITTB
	MEHK	NASB
	NSC	NTR
	SCA	SGAI
	SLD	SST
	♦TII	TIIB
	TIID	TIIF
		UPI
2N3963	△♦FSC	103 - 50
	CSR	HZN
	IDI	INTG
	ITT	MEHK
	NASB	NSC
	NTR	SCA
	SGAI	SLD
	SST	♦TII
	TIIB	TIID
	TIIF	UPI
		♦VALG
2N3964	△♦FSC	103 - 59
	CSR	HZN
	IDI	INTG
	ITT	ITTB
	MEHK	NASB
	NSC	NTR
	SCA	SGAI
	SLD	SST
	♦TII	TIIB
	TIID	TIIF
	UPI	♦VALG
2N3965	△♦FSC	103 - 60
	CSR	HZN
	IDI	ITT
	MEHK	NASB
	NSC	NTR
	SCA	SGAI
	SLD	SST
	TADI	♦TII
	TIIB	TIID
	TIIF	UPI
2N3966	△♦TSC	155 - 83
	CSR	ELMA 234 - 89
	INL	LTTF
	MISI	NSC
	♦PHIN	RTCF
	SIX	♦SODI
	THCF	♦TII
	TIIB	TIID
	TIIF	UPI
		♦VALG
2N3967	△♦TSC	155 - 84
	INL	NSC
		SODI
2N3967A	△♦TSC	155 - 85
	INL	NSC
2N3968	△♦TSC	155 - 86
	INL	NSC
		SODI
2N3968A	△♦TSC	155 - 87
	INL	NSC
2N3969	INL	155 - 88
	NSC	SODI
		♦TSC
2N3969A	△♦TSC	155 - 89
	INL	NSC
2N3970	△♦SODI	162 - 75
	INL	♦MOTA 233 - 56
	♦NSC	♦SIX
	SLD	♦TII
	TIIB	TIID
	TIIF	♦TSC
2N3971	△♦SODI	162 - 76
	INL	♦MOTA 233 - 75
	♦NSC	♦SIX
	SLD	♦TII
	TIIB	TIID
	TIIF	♦TSC
2N3972	△♦SODI	162 - 77
	ESI	INL 234 - 31
	♦MOTA	♦NSC
	♦SIX	SLD
	♦TII	TIIB

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TYPE No.	MFRS	Pg&Line
2N3972		
(cont.)	TIID	
TIIF	♦TSC	
2N3973	HZN	133 - 60
IDC	STI	259 - 90
2N3974	HZN	133 - 61
IDC	STI	259 - 91
2N3975	CSR	133 - 62
HZN	IDC	259 - 92
SES	SLD	
♦SPR	SST	
2N3976	CSR	133 - 63
HZN	IDC	259 - 93
SES	SLD	
♦SPR	SST	
2N3977	△♦SPR	105 - 32
IDC	MOTA	278 - 14
SES	SSI	
	TADI	
2N3978	△♦SPR	105 - 33
IDC	MOTA	278 - 15
SES	SSI	
TADI	TCY	
2N3979	△♦SPR	105 - 34
IDC	SES	278 - 16
SSI	TADI	
	TCY	
2N3980	△♦TII	276 - 98
♦MOTA	SES	
SLD	SST	
TADI	TIIB	
	TIID	
2N3983	♦SES	119 - 64
	STI	
2N3984	♦SES	119 - 42
	STI	
2N3985	♦SES	118-108
	STI	
2N3993	△♦TII	151 - 5
ESI	INL	
♦MOTA	NSC	
SLD	TIIB	
TIID	TIIF	
2N3993A	△♦TII	151 - 6
INL	NSC	
SLD	TIID	
2N3994	△♦TII	151 - 7
INL	♦MOTA	
NSC	SLD	
TIIB	TIID	
	TIIF	
2N3994A	△♦TII	151 - 8
INL	♦MOTA	
NSC	SLD	
	TIID	
2N3995	TIID	90 - 30
2N3996	△♦TII	210 - 11
♦AMC	CSR	250 - 71
♦GSE	IDI	
KER	PPC	
SCA	SLD	
SOD	SSI	
SST	STC	
TEC	TIIB	
TIID	TRW	
♦UNI	UPI	
JAN2N3996	AMC	211 - 56
TEC	TII	255 -109
	UNI	
2N3997	△♦TII	210 - 12
♦AMC	CSR	250 - 72
♦GSE	IDI	
KER	PPC	
SCA	SLD	
SOD	SSI	
SST	STC	
TEC	TIIB	
TIID	TRW	
♦UNI	UPI	
JAN2N3997	AMC	211 - 57
TEC	TII	255 -110
	UNI	
2N3998	△♦TII	210 - 13
♦AMC	CSR	250 - 73
♦GSE	KER	
PPC	SCA	
SOD	SSI	
STC	TEC	
TIIB	TIID	
TRW	♦UNI	
	UPI	
JAN2N3998	AMC	211 - 58
TEC	TII	256 - 1
	UNI	
2N3999	△♦TII	210 - 14
♦AMC	CSR	250 - 74
♦GSE	KER	
PPC	SCA	
SOD	SSI	
STC	TEC	
TIIB	TIID	
TRW	♦UNI	
	UPI	
JAN2N3999	AMC	211 - 59
TEC	TII	256 - 2
	UNI	
2N4000	△♦TII	203 -107
CSR	GSE	249 -103
IDI	KER	
PPC	SCA	
SDE	SLD	
SOD	♦SSI	
SST	TEC	
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TYPE No.	MFRS	Pg&Line
2N4000		
(cont.)	TIIB	
TIID	TIIF	
UNI	UPI	
2N4001	△♦TII	203 -108
CSR	GSE	249 -104
IDI	KER	
PPC	SCA	
SDE	SLD	
SOD	SSI	
SST	STC	
STI	TEC	
TIIB	TIID	
TRW	UNI	
	UPI	
2N4003	△♦TII	223 - 51
CSR	GSE	248 -104
IDI	KER	
PPC	SCA	
SDE	SLD	
SOD	SSI	
SST	STC	
STI	TEC	
TIIB	TIID	
TRW	UNI	
	UPI	
2N4004	△♦TII	189 - 48
SCA	SSI	246 - 41
STI	TIIB	
TRW	UPI	
2N4005	△♦TII	189 - 49
SCA	SSI	246 - 42
TIIB	TRW	
2N4006	△♦TCY	105 -101
SSI	TADI	244 - 88
	♦TEC	
2N4007	△♦TCY	105 - 88
SSI	TADI	244 - 39
	♦TEC	
2N4008	△♦TCY	105 - 89
SSI	TADI	244 - 40
	♦TEC	
2N4009	△♦TCY	270 - 53
SSI	TADI	
2N4010	△♦TCY	270 - 54
2N4011	△♦TCY	270 - 55
2N4012	△♦RCA	198 -109
KER	♦MOTA	
♦SES	SSI	
	UPI	
2N4013	CSR	134 - 28
ESI	♦FSC	263 - 4
HZN	IDI	
♦ITT	ITTB	
♦MOTA	NSC	
NTR	SCA	
SES	SGAI	
SLD	SPR	
SST	TEC	
♦TII	TIIF	
	UPI	
2N4014	CSR	134 - 29
♦FSC	HZN	263 - 5
IDI	♦ITT	
ITTB	♦MOTA	
NSC	NTR	
SCA	SES	
SGAI	SLD	
SPR	SST	
TEC	♦TII	
TIIF	UPI	
2N4015	△♦FSC	106 - 96
♦MOTA	NSC	270 - 56
NTR	SGAI	
SLD	STI	
TADI	UPI	
2N4016	△♦FSC	106 - 97
♦MOTA	NSC	270 - 57
NTR	SLD	
SST	STI	
TADI	UPI	
2N4017	△♦FSC	106 - 7
NSC	NTR	279 - 23
SLD	SSI	
SST	STI	
TADI	UPI	
2N4018	△♦FSC	106 - 8
NSC	NTR	279 - 24
SLD	SSI	
SST	STI	
TADI	UPI	
2N4019	△♦FSC	106 - 9
NSC	NTR	279 - 25
SLD	SSI	
SST	STI	
TADI	UPI	
2N4020	△♦FSC	106 - 19
MEHK	NSC	270 - 58
NTR	SLD	
SSI	SST	
STI	TADI	
	UPI	
2N4021	△♦FSC	106 - 10
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N4021		
(cont.)	MEHK	270 - 59
NSC	NTR	
SLD	SSI	
SST	STI	
TADI	UPI	
2N4022	△♦FSC	106 - 20
MEHK	SLD	270 - 60
SSI	SST	
STI	TADI	
	UPI	
2N4023	△♦FSC	106 - 21
MEHK	NSC	270 - 61
NTR	SGAI	
SLD	SSI	
SST	STI	
TADI	UPI	
2N4024	△♦FSC	106 - 11
MEHK	NSC	270 - 62
NTR	SLD	
SSI	SST	
STI	TADI	
2N4025	△♦FSC	106 - 22
MEHK	SGAI	270 - 63
SLD	SSI	
SST	STI	
	TADI	
2N4026	△♦FSC	107 - 86
CSR	ITT	265 - 19
SGAI	SLD	
SST	STI	
TEC	♦TII	
	TIIF	
2N4027	△♦FSC	107 - 87
CSR	ITT	265 - 20
SLD	SST	
STI	TEC	
♦TII	TIIF	
2N4028	△♦FSC	107 -106
CSR	ITT	266 - 25
SGAI	SLD	
SST	STI	
TEC	♦TII	
	TIIF	
2N4029	△♦FSC	107 -107
CSR	ITT	266 - 26
SGAI	SLD	
SST	STI	
TEC	♦TII	
	TIIF	
2N4030	△♦FSC	110 - 58
CRI	CSR	265 - 21
HZN	IDI	
INTG	♦ITT	
ITTB	MEHK	
NASB	NSC	
NTR	RTN	
SCA	SDE	
♦SES	SGAI	
SLD	SST	
STI	TADI	
TEC	♦TII	
TIIB	TIIF	
2N4031	△♦FSC	110 - 59
CRI	CSR	265 - 22
HZN	IDI	
INTG	♦ITT	
ITTB	MEHK	
NASB	NSC	
NTR	SCA	
SES	SGAI	
SLD	SST	
STI	TADI	
TEC	♦TII	
TIIB	TIIF	
2N4032	△♦FSC	110 - 85
CRI	CSR	266 - 27
HZN	IDI	
INTG	♦ITT	
ITTB	MEHK	
NASB	NSC	
NTR	RTN	
SCA	SDE	
♦SES	SGAI	
SLD	SST	
STI	TADI	
TEC	♦TII	
TIIB	TIIF	
2N4033	△♦FSC	110 - 86
CRI	CSR	266 - 28
HZN	IDI	
INTG	♦ITT	
ITTB	MEHK	
NASB	NSC	
NTR	SCA	
SES	SGAI	
SLD	SSI	
STI	TADI	
TEC	♦TII	
TIIB	TIIF	
	♦VALG	
2N4034	△♦FSC	104 - 72
CRI	CSR	264 -108
IDI	ITT	
SCA	SES	
SGAI	SLD	
SSI	SST	
	STI	
2N4035	△♦FSC	104 - 78
CRI	CSR	265 - 59
IDI	ITT	
KER	SCA	
SES	SGAI	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N4035		
(cont.)	SSI	
SST	STI	
2N4036	△♦RCA	176 -109
ALGG	CRI	252 - 47
CSR	ETC	
FERB	FSC	
KER	MEHK	
♦MULB	NASB	
NJS	NSC	
NTR	♦PHIC	
♦PHIN	RTCF	
RTN	♦SCA	
SES	SGAI	
SST	STI	
TEC	TIIF	
	♦VALG	
2N4037	△♦RCA	175 - 19
CRI	CSR	
ESI	ETC	
FERB	FSC	
KER	MEHK	
NASB	NJS	
NSC	NTR	
RTN	♦SCA	
SES	SGAI	
SST	STI	
TEC	♦VALG	
2N4038	△♦TRW	153 - 60
	♦GIC	
2N4039	△♦TRW	153 - 61
2N4040	△♦TRW	201 - 42
♦FERB	KER	
♦SES	♦TII	
	TIIB	
2N4041	△♦TRW	201 - 43
♦FERB	KER	
♦SES	♦TII	
	TIIB	
2N4044	△♦SODI	270 - 64
♦INL	SCA	
	STI	
2N4045	△♦SODI	270 - 65
♦INL	SCA	
SGAI	STI	
2N4046	△♦FSC	147 - 42
CEI	CSR	261 - 42
HSC	IDI	
ITT	ITTB	
NJS	RTN	
SCA	SDE	
♦SES	SGAI	
SLD	SST	
TEC	UPI	
2N4047	△♦FSC	147 - 43
CEI	CSR	261 - 43
HSC	IDI	
ITT	ITTB	
NJS	NSC	
RTN	SCA	
SDE	♦SES	
SGAI	SLD	
SST	TEC	
	UPI	
2N4048	△♦MOTA	172 - 52
CSR	GPD	237 - 68
NJS	STC	
	UPI	
2N4049	△♦MOTA	172 - 53
CSR	GPD	237 - 69
NJS	STC	
	UPI	
2N4050	△♦MOTA	172 - 54
CSR	GPD	237 - 70
NJS	STC	
	UPI	
2N4051	△♦MOTA	172 - 55
CSR	GPD	237 - 71
NJS	STC	
	UPI	
2N4052	△♦MOTA	172 - 56
CSR	GPD	237 - 72
NJS	STC	
	UPI	
2N4053	△♦MOTA	172 - 57
CSR	GPD	237 - 73
NJS	STC	
	UPI	
2N4058	△♦TII	103 - 14
CSR	ITT	
NPC	NSC	
NTR	PRE	
SEI	SES	
SLD	SST	
STI	TIIB	
TIIC	TIID	
2N4059	△♦TII	103 - 15
CSR	ITT	
NPC	NSC	
NTR	SES	
SLD	SST	
STI	TIIB	
TIIC	TIID	
2N4060	△♦TII	103 - 16
CSR	ITT	
NPC	NTR	
SES	SLD	
SST	STI	
TIIB	TIIC	
	TIID	
2N4061	△♦TII	103 - 17
CSR	ITT	
NPC	NSC	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N4061		
(cont.)	NTR	
PRE	SEI	
SES	SLD	
SST	STI	
TIIB	TIIC	
	TIID	
2N4062	△♦TII	103 - 18
CSR	ITT	
NPC	NSC	
NTR	PRE	
SEI	SES	
SLD	STI	
TIIB	TIIC	
	TIID	
2N4063	△♦RCA	197 -103
KER	SCA	
SSI	STC	
	STI	
2N4064	△♦RCA	197 -104
SCA	SSI	
STC	STI	
2N4065	♦GIC	151 - 96
		234 - 95
2N4066	♦GIC	152 - 45
INL	♦MOTA	234 - 7
2N4067	♦GIC	152 - 46
INL	♦MOTA	234 - 8
2N4068	SSI	137 -105
2N4069	SSI	188 -100
2N4070	♦AMC	205 - 95
CSR	GSE	245 - 16
HZN	IDI	
KER	SCA	
SDE	SOD	
SSI	STC	
TEC	TRW	
	UNI	
2N4071	CSR	205 - 96
GSE	HZN	245 - 17
IDI	KER	
SCA	SDE	
♦SOD	SSI	
STC	TEC	
	TRW	
2N4072	△♦MOTA	132 - 23
IDI	SCA	
SSI	TEC	
2N4073	△♦MOTA	189 - 66
CSR	IDI	
SCA	SSI	
	TEC	
2N4074	SCA	135 - 47
	SSI	
2N4075	GSE	205 - 61
SCA	SSI	250 - 77
STC	TEC	
TRW	UNI	
2N4076	GSE	205 - 62
SCA	SSI	250 - 78
STC	TEC	
TRW	UNI	
2N4077	△♦APX	173 - 31
PHIC	PRE	
2N4078	△♦APX	172 - 84
GPD	PHIC	
2N4079	△♦APX	288 - 44
	PHIC	
2N4080	CSI	101 - 99
HZN	SCA	
SDE	♦SES	
	TADI	
2N4082	△♦TSC	270 - 66
	INL	
2N4083	△♦TSC	270 - 67
INL	SODI	
2N4084	△♦TSC	270 - 68
INL	NSC	
♦SIX	SODI	
2N4085	△♦TSC	270 - 69
INL	NSC	
♦SIX	SODI	
2N4086	PHIN	116 -101
2N4090	MISI	151 - 9
2N4091	△♦TSC	162 - 78
AKER	CSR	
ELMA	INL	
♦MOTA	♦MULB	
♦NSC	♦PHIN	
RTCF	♦SIX	
SLD	♦SODI	
THCF	♦TII	
TIIB	TIID	
TIIF	♦VALG	
JAN2N4091	none	160 - 12
		233 - 57
2N4092	△♦TSC	162 - 79
AKER	CSR	
ELMA	INL	
MISI	♦MOTA	
♦MULB	♦NSC	
♦PHIN	RTCF	
♦SIX	SLD	
♦SODI	THCF	
♦TII	TIIB	
TIID	TIIF	
	♦VALG	
JAN2N4092	none	160 - 13
		233 - 80
2N4093	△♦TSC	162 - 80
AKER	CSR	
ELMA	INL	
MISI	♦MOTA	
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
2N4093		
(cont.)	♦MULB	
	♦NSC	♦PHIN
	RTCF	♦SIX
	SLD	♦SODI
	THCF	♦TII
	TIIB	TIID
	TIIF	♦VALG
JAN2N4093	none	160 - 14
		234 - 32
2N4100	△♦SODI	136 - 5
	♦INL	270 - 70
2N4104	△♦TII	128-107
IDI	SCA	
SSI	TIIB	
TIID	TIIF	
2N4105	♦APX	173 - 10
NPC	PHIC	
2N4106	♦APX	164 - 51
	PHIC	
2N4107	♦APX	268 - 45
	PHIC	
2N4111	CEI	211 - 60
CSR	♦ETC	
GSE	IDI	
KER	NJS	
PPC	SCA	
SDE	SLD	
SOD	SSI	
SST	STC	
TEC	TRW	
	UPI	
2N4112	CSR	211 - 61
♦ETC	GSE	
IDI	KER	
NJS	PPC	
SCA	SDE	
SLD	SOD	
SSI	SST	
STC	TEC	
TRW	UPI	
2N4113	CEI	211 - 62
CSR	GSE	
IDI	KER	
PPC	SCA	
SDE	SLD	
SOD	SSI	
SST	STC	
TEC	TRW	
	UPI	
2N4114	CSR	211 - 63
GSE	IDI	
KER	PPC	
SCA	SDE	
SLD	SSI	
SST	STC	
TEC	TRW	
	UPI	
2N4115	△♦FSC	212 - 73
GSE	SCA	
SSI	STC	
TEC	TRW	
	UNI	
2N4116	△♦FSC	212 - 74
GSE	KER	
PRE	SCA	
SEI	SSI	
STC	TEC	
TRW	UNI	
	UPI	
2N4117	△♦SIX	155 - 90
♦INL	NSC	
	TSC	
2N4117A	△♦SIX	155 - 91
♦INL	NSC	
	TSC	
2N4118	△♦SIX	155 - 92
♦INL	NSC	
	TSC	
2N4118A	△♦SIX	155 - 93
♦INL	NSC	
	TSC	
2N4119	△♦SIX	155 - 94
♦INL	NSC	
	TSC	
2N4119A	△♦SIX	155 - 95
♦INL	NSC	
	TSC	
2N4120	♦GIC	151 - 97
		234 - 96
2N4121	△♦FSC	96 - 36
CSI	CSR	264-109
HZN	IDI	
MEHK	NASB	
NSC	SGAI	
SLD	SST	
STI	♦TSC	
2N4122	CSR	96 - 40
FSC	HZN	264-110
IDC	IDI	
MEHK	NASB	
NSC	SLD	
SST	STI	
	♦TSC	
2N4123	△♦MOTA	132 - 11
CSI	CSR	
FSC	ITT	
MEHK	NASB	
NPC	NSC	
NTR	SES	
SLD	♦SPR	
SST	STI	
♦TII	TIIB	
	TSC	
2N4124	△♦MOTA	132 - 24
CSI	CSR	
FSC	ITT	
MEHK	NASB	
NPC	NSC	
NTR	SES	
SLD	♦SPR	
SST	STI	
♦TII	TIIB	
	TSC	
2N4125	△♦MOTA	102 - 99
CSI	FSC	
ITT	NASB	
NPC	NSC	
NTR	PRE	
SEI	SES	
SLD	♦SPR	
SST	STI	
♦TII	TIIB	
	TSC	
2N4126	△♦MOTA	102-108
CSI	CSR	
FSC	ITT	
NPC	NSC	
NTR	PRE	
SEI	SES	
SLD	♦SPR	
SST	STI	
♦TII	TIIB	
	TSC	
2N4127	△♦TRW	203 - 94
FERB	KER	
♦SES	TII	
	TIIB	
2N4128	△♦TRW	207 - 95
FERB	KER	
♦SES	TII	
	TIIB	
2N4130	IDI	220-108
KER	♦MOTA	
SCA	SDE	
SES	SSI	
2N4131	IDI	212 - 99
KER	SCA	
	SSI	
2N4132	KER	196 - 87
	SSI	
2N4133	IDI	190 - 61
KER	SCA	
	SSI	
2N4134	△♦FSC	119 - 27
CSR	ETC	
IDI	NASB	
NJS	NSC	
NTR	SCA	
SGAI	SSI	
2N4135	△♦FSC	119 - 58
CEI	CSR	
ETC	IDI	
NASB	NJS	
NSC	NTR	
SCA	SGAI	
	SSI	
2N4136	△♦APX	268 - 46
2N4137	△♦FSC	135 - 3
CSI	CSR	265 - 73
IDI	ITT	
RTN	SCA	
SDE	♦SES	
2N4138	△♦TII	124 - 37
SLD	SST	
♦TCY	TEC	
TIID	TIIF	
2N4139	△♦TSC	155 - 96
INL	MEHK	
	NSC	
2N4140	CSI	127 - 49
CSR	ETC	261 - 77
HZN	IDI	
MEHK	NASB	
NJS	NPC	
NSC	♦SES	
SLD	SST	
STI	TSC	
2N4141	CSI	127 - 50
CSR	ETC	261 - 78
HZN	IDI	
MEHK	NASB	
NJS	NPC	
NSC	♦SES	
SLD	SST	
STI	TSC	
2N4142	CEI	100 - 57
CSI	CSR	259 - 7
HZN	IDI	
MEHK	NASB	
NSC	♦SES	
SLD	SST	
STI	TSC	
2N4143	CEI	100 - 58
CSI	CSR	259 - 8
HZN	IDI	
MEHK	NASB	
NSC	PRE	
SEI	♦SES	
SLD	SST	
STI	TSC	
2N4150	♦AMC	196 - 88
CSR	GSE	244 - 51
IDI	KER	
PPC	SCA	
SDE	SLD	
SOD	♦SSI	

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TYPE No.	MFRS	Pg&Line
2N4150		
(cont.)	SST	
STC	TEC	
TRW	♦UNI	
JAN2N4150	TEC	196 - 89
	UNI	253 - 48
2N4207	CSI	101 - 90
CSR	IDI	266 - 73
	NASB	
2N4208	△♦FSC	101 - 91
CSI	CSR	266 - 76
IDI	NASB	
NSC	NTR	
2N4209	△♦FSC	101 - 95
CSI	CSR	267 - 5
IDI	NASB	
NSC	NTR	
2N4210	△♦TEC	223 - 52
CSR	GSE	
HZN	IDI	
KER	SCA	
SDE	SOD	
SSI	STC	
	TRW	
2N4211	△♦TEC	223 - 53
CSR	GSE	
HZN	IDI	
KER	SCA	
SDE	SOD	
SSI	STC	
	TRW	
2N4220	△♦MOTA	155 - 97
INL	MISI	
NSC	♦SIX	
SODI	THCF	
♦TII	TIIB	
TIID	TSC	
2N4220A	△♦MOTA	155 - 98
INL	MISI	
NSC	PRE	
SEI	♦SIX	
SODI	THCF	
♦TII	TIIB	
TIID	TSC	
2N4221	△♦MOTA	155 - 99
♦FSC	INL	
MISI	NSC	
♦SIX	SODI	
THCF	♦TII	
TIIB	TIID	
TSC	UPI	
2N4221A	△♦MOTA	155-100
INL	MISI	
NSC	♦SIX	
SODI	THCF	
♦TII	TIIB	
TIID	TSC	
	UPI	
2N4222	△♦MOTA	155-101
INL	MISI	
NSC	♦SIX	
SODI	THCF	
♦TII	TIIB	
TIID	TSC	
	UPI	
2N4222A	△♦MOTA	155-102
INL	MISI	
NSC	♦SIX	
SODI	THCF	
♦TII	TIIB	
TIID	TSC	
	UPI	
2N4223	△♦MOTA	155-103
♦FSC	INL	
♦NSC	♦SIX	
SODI	♦TII	
TIIB	TIID	
♦TSC	UPI	
2N4225	△♦SOD	196 - 90
KER	PPC	256 - 68
SCA	SDE	
SLD	SSI	
	SST	
2N4226	△♦SOD	196 - 91
KER	PPC	256 - 69
PRE	SCA	
SDE	SEI	
SLD	SSI	
	SST	
2N4227	CSR	127 - 51
ETC	HZN	261 - 79
IDI	NASB	
NPC	NSC	
♦SES	SLD	
SST	TSC	
2N4228	CEI	100 - 59
CSR	HZN	259 - 9
IDI	NASB	
NSC	♦SES	
SLD	SST	
	TSC	
2N4231	CSR	206 - 3
♦FSC	IDI	
KER	♦MOTA	
PPC	PRE	
SCA	SDE	
SEI	SES	

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TYPE No.	MFRS	Pg&Line
2N4231		
(cont.)	SLD	
SOD	SSI	
SST	STC	
TEC	TRW	
2N4231A	△♦MOTA	214 - 39
	STC	
2N4232	CSR	206 - 4
♦FSC	IDI	
KER	♦MOTA	
PPC	SCA	
SDE	SES	
SLD	SOD	
SSI	SST	
STC	TEC	
	TRW	
2N4232A	△♦MOTA	214 - 40
	STC	
2N4233	CSR	206 - 5
♦FSC	IDI	
KER	♦MOTA	
PPC	SCA	
SDE	SES	
SLD	SOD	
SSI	SST	
STC	TEC	
	TRW	
2N4233A	△♦MOTA	214 - 41
	STC	
2N4234	△♦MOTA	175 - 20
CSR	ESI	
♦FSC	KER	
NSC	NTR	
PRE	♦SCA	
SEI	SES	
SLD	SOD	
♦SSI	SST	
STI	TEC	
2N4235	△♦MOTA	175 - 21
AMC	CSR	
ESI	♦FSC	
NSC	NTR	
♦SCA	SES	
SLD	SOD	
♦SSI	SST	
STI	TEC	
2N4236	△♦MOTA	175 - 22
AMC	CSR	
ESI	♦FSC	
KER	NSC	
NTR	♦SCA	
SES	SLD	
SOD	♦SSI	
SST	STI	
	TEC	
2N4237	△♦MOTA	144 - 54
CSR	♦FSC	
GSE	HSC	
HZN	IDI	
KER	NSC	
NTR	PRE	
SCA	SDE	
SEI	SES	
SLD	SOD	
♦SSI	SST	
TEC	UNI	
2N4238	△♦MOTA	144 - 55
AMC	CSR	
♦FSC	GSE	
HSC	HZN	
IDI	KER	
NSC	NTR	
SCA	SDE	
SES	SLD	
SOD	♦SSI	
SST	TEC	
	UNI	
2N4239	△♦MOTA	144 - 56
AMC	CSR	
♦FSC	GSE	
HSC	HZN	
IDI	KER	
PRE	SCA	
SDE	SEI	
SES	SLD	
SOD	♦SSI	
SST	TEC	
	UNI	
2N4240	MISI	206 - 6
♦MOTA	♦RCA	244 - 55
SES	STC	
TEC	THCF	
♦TII	TIIB	
	UNI	
2N4241	BELI	166 - 94
CSR	ELMA	
GPD	SES	
	SST	
2N4242	CSR	170 - 94
HZN	SES	
2N4243	CSR	170 - 95
HZN	SES	
2N4244	CSR	170 - 96
HZN	SES	
2N4245	CSR	170 - 97
HZN	SES	
2N4246	CSR	170 - 98
HZN	SES	
2N4247	CSR	170 - 99
HZN	SES	
2N4248	△♦FSC	95 - 76
♦CSI	CSR	
ETC	HZN	

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TYPE No.	MFRS	Pg&Line
2N4248		
(cont.)	ITT	
MEHK	NASB	
NJS	NSC	
SES	SGAI	
SLD	SST	
STI	TSC	
2N4249	△♦FSC	95 - 77
♦CSI	CSR	
ETC	HZN	
ITT	MEHK	
NASB	NJS	
NSC	PRE	
SEI	SES	
SGAI	SLD	
SST	STI	
	TSC	
2N4250	△♦FSC	95 - 78
♦CSI	CSR	
ETC	HZN	
ITT	MEHK	
NASB	NJS	
NSC	PRE	
SEI	SES	
SGAI	SLD	
SST	STI	
	TSC	
2N4250A	△♦FSC	95 - 79
CSR	NSC	
STI	TSC	
2N4251	STI	123 - 61
		267 - 35
2N4252	△♦TII	119 - 85
ETC	NJS	
SCA	SLD	
SSI	SST	
STI	TIIB	
	TIID	
2N4253	△♦TII	119 - 86
ETC	NJS	
SCA	SLD	
SSI	SST	
STI	TIIB	
	TIID	
2N4254	SLD	123 - 40
TIIB	TIIC	
2N4255	SLD	123 - 41
TIIB	TIIC	
2N4256	△GESY	116-102
HZN	IDC	233 - 78
2N4257	△♦FSC	96 - 44
CSI	CSR	265-103
IDI	NASB	
SES	SLD	
	SST	
2N4257A	CSI	96 - 45
CSR	NASB	265-104
2N4258	△♦FSC	96 - 49
CSI	CSR	266 - 77
ESI	IDI	
NASB	NSC	
SES	SLD	
	SST	
2N4258A	△♦FSC	96 - 50
CSI	CSR	266 - 78
NASB	NSC	
2N4259	NSC	115-109
NTR	♦SCA	
SES	STI	
2N4260	△♦MOTA	96 - 60
HSC	NTR	
RTN	SCA	
	♦TII	
2N4261	△♦MOTA	96 - 61
HSC	NTR	
RTN	SCA	
	♦TII	
2N4264	△♦MOTA	130 - 81
CSR	FSC	262 - 74
NTR	STI	
	TSC	
2N4265	△♦MOTA	130 - 82
CSR	FSC	262 - 75
NTR	STI	
2N4267	♦INL	152 - 21
		234 - 53
2N4268	♦INL	152 - 22
		234 - 54
2N4269	△♦TEC	132 - 85
CSR	HZN	
SLD	SST	
2N4270	△♦TEC	140 - 30
CSR	HZN	
SLD	SST	
2N4271	△♦TEC	199 - 1
CSR	HZN	
KER	SCA	
SDE	SLD	
SSI	SST	
STC	STI	
2N4272	△♦TEC	199 - 2
CSR	HZN	
IDI	SCA	
SDE	SLD	
SSI	SST	
	STC	
2N4273	△♦TEC	204 - 84
HZN	IDI	
SDE	SLD	
SST	STC	
	TRW	
2N4274	△♦FSC	119 - 43
CSI	CSR	264 - 53

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△-Registered with JEDEC by this manufacturer

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TYPE No.	MFRS	Pg&Line
2N4274		
(cont.)	IDI	
	MEHK	NASB
	NJS	NSC
	PRE	SDE
	SEI	♦SES
	SLD	SST
		TSC
2N4275	△♦FSC	119 - 44
	CSI	CSR 264 - 54
	IDI	MEHK
	NASB	NJS
	NSC	PRE
	SDE	SEI
	♦SES	SLD
		SST
2N4276	△♦MOTA	172 - 58
	CSR	GPD 237 - 74
2N4277	△♦MOTA	172 - 59
	CSR	GPD 237 - 75
2N4278	△♦MOTA	172 - 60
	CSR	GPD 237 - 76
2N4279	△♦MOTA	172 - 61
	CSR	GPD 237 - 77
2N4280	△♦MOTA	172 - 62
	CSR	GPD 237 - 78
2N4281	△♦MOTA	172 - 63
	CSR	GPD 237 - 79
2N4282	△♦MOTA	172 - 64
	CSR	GPD 237 - 80
2N4283	△♦MOTA	172 - 65
	CSR	GPD 237 - 81
2N4285	PRE	97 - 61
	SEI	
2N4286	△NSC	122 - 59
	PIHS	PRE
	SEI	SLD
	SST	UPI
2N4287	△NSC	122 - 60
	PIHS	PRE
	SEI	SLD
	SST	UPI
2N4288	△NSC	97 - 77
	PIHS	SLD
	SST	UPI
2N4289	△NSC	97 - 78
	PIHS	SLD
	SST	UPI
2N4290	△NSC	98 - 1
	PIHS	SLD
	SST	UPI
2N4291	△NSC	98 - 2
	PIHS	SLD
	SST	UPI
2N4292	△NSC	119 - 87
	PIHS	SST
2N4293	△NSC	119 - 88
		SST
2N4294	△NSC	119 - 45
	SST	UPI 264 - 58
2N4295	△NSC	119 - 65
	PRE	SEI 265 - 79
		SST
2N4296	IDI	190 - 28
	SCA	SES 245 - 96
	♦SSI	STC
		STI
2N4297	IDI	190 - 29
	SCA	SES 245 - 97
	♦SSI	STC
		STI
2N4298	IDI	190 - 30
	SCA	SES 245 - 98
	♦SSI	STC
	STI	UPI
2N4299	IDI	190 - 31
	SCA	SES 245 - 99
	♦SSI	STC
	STI	UPI
2N4300	△♦TII	203-109
	CSR	GSE
	HZN	IDI
	KER	PPC
	SCA	SDE
	SLD	SOD
	SSI	SST
	TEC	TIIB
		UNI
2N4301	△♦TII	215 - 1
	CSR	GSE
	IDI	KER
	PPC	SCA
	SDE	SOD
	SSI	STC
	TEC	TIIB
	TIID	TRW
		UNI
2N4302	△♦TSC	155-105
	INL	MEHK
	NSC	SODI
2N4303	△♦TSC	155-106
	INL	MEHK
		NSC
2N4304	△♦TSC	155-107
	INL	MEHK
		NSC
2N4305	△♦TRW	199 - 3
	CSR	GSE 234 - 77
	HZN	IDI
	KER	PPC
	SCA	SDE
	SOD	SSI
		TEC
2N4306	△♦TRW	205 - 71
		KER 234 - 78
2N4307	△♦TRW	199 - 4
	CSR	GSE 234 - 79
	HZN	IDI
	KER	PPC
	SCA	SDE
	SOD	SSI
		TEC
2N4308	△♦TRW	205 - 72
		KER 234 - 80
2N4309	△♦TRW	199 - 5
	CSR	GSE 234 - 81
	HZN	IDI
	KER	PPC
	SCA	SDE
	SOD	SSI
		TEC
2N4310	△♦TRW	205 - 73
		KER 234 - 82
2N4311	△♦TRW	199 - 6
	CSR	GSE 234 - 83
	HZN	IDI
	KER	SCA
	SDE	SOD
	SSI	TEC
2N4312	△♦TRW	205 - 74
		KER 234 - 84
2N4313	△♦FSC	96 - 51
	CSR	NASB 266 - 79
	NSC	SLD
		SST
2N4314	△♦RCA	175 - 23
	CSR	ESI
	NSC	NTR
	SCA	SES
		SST
2N4338	△♦SIX	155-108
	♦INL	♦NSC
	SODI	TSC
2N4339	△♦SIX	155-109
	♦INL	♦NSC
	SODI	TSC
2N4340	△♦SIX	155-110
	INL	♦NSC
	SODI	TSC
2N4341	△♦SIX	156 - 1
	♦INL	♦NSC
	SODI	TSC
2N4342	△♦FSC	150 - 38
	INL	♦MOTA
	NSC	SODI
		TSC
2N4343	△♦FSC	150 - 39
	INL	NSC
		TSC
2N4346	CSR	164 - 98
		GPD
2N4347	△♦RCA	216 - 90
	AMC	IDI
	♦MISI	♦MOTA
	♦MULB	NSC
	♦PHIN	PPC
	RTCF	SCA
	SDE	SEN
	♦SES	SGAI
	SIEG	SOD
	SPC	♦STC
	TEC	♦THCF
	UPI	♦VALG
		WESY
2N4348	△♦RCA	220 - 36
	AMC	CSR
	FSC	IDI
	KER	♦MISI
	♦MOTA	NSC
	PPC	SCA
	SDE	SEN
	♦SES	SGAI
	SLD	SOD
	SPC	SST
	♦STC	TEC
	♦THCF	UPI
		WESY
2N4349	IDI	195 - 23
	SCA	SSI 264 - 27
	TEC	UPI
2N4350	CSR	195 - 24
	HZN	IDI
	SCA	SSI
2N4351	△♦MOTA	156 - 2
	CSR	♦GIC 234 - 59
		INL
2N4352	△♦MOTA	151 - 10
		GIC 234 - 60
2N4353	△♦GIC	150 - 84
		INL 234 - 55
2N4354	△♦FSC	102 - 68
	CSI	CSR 254 - 48
	HZN	MEHK
	NASB	NSC
	SES	SLD
	SST	STI
2N4355	△♦FSC	102 - 69
	CSI	CSR 254 - 49
	HZN	MEHK
	NASB	NSC
	PRE	SEI
	SLD	SST
		STI
2N4356	△♦FSC	102 - 70
	CSI	CSR 254 - 50
	HZN	MEHK
cont.next col.		
2N4356		
(cont.)	NASB	
	NSC	PRE
	SEI	SLD
	SST	STI
2N4357	CSR	106 - 12
	FSC	SCA
		STI
2N4358	CSR	109 - 97
	FSC	SCA
	SGAI	STI
2N4359	CSR	104 - 8
	HZN	IDI
	ITT	MOTA
	SCA	SSI
2N4360	△♦FSC	150 - 40
	INL	♦MOTA
	NSC	SODI
		TSC
2N4381	INL	151 - 11
	NSC	TSC
2N4382	INL	151 - 12
	NSC	TSC
2N4383	△♦SPR	146 - 65
	CSR	HZN
	IDC	SCA
	SES	TEC
2N4384	△♦SPR	138 - 81
	CSR	HZN
	IDC	NSC
	NTR	SCA
	SES	TEC
		TIIF
2N4385	△♦SPR	146 - 66
	CSR	HZN
	IDC	SCA
		SES
2N4386	△♦SPR	138 - 82
	CSR	HZN
	IDC	NSC
	NTR	SCA
	SES	TEC
2N4387	△♦TEC	178 - 95
	CSR	HZN
	SLD	SOD
	SSI	SST
2N4388	△♦TEC	178 - 96
	CSR	HZN
	SLD	SOD
	SSI	SST
2N4389	CSR	96 - 37
		264 - 71
2N4390		SCA 252 - 2
		SGAI
2N4391	△♦SODI	162 - 81
	CSR	ELMA 233 - 22
	♦INL	MISI
	♦MOTA	♦MULB
	♦NPC	♦NSC
	♦PHIN	RTCF
	♦SIX	SLD
	THCF	♦TII
	TIIB	TIID
	TIIF	TSC
	UPI	♦VALG
2N4392	△♦SODI	162 - 82
	CSR	ELMA 233 - 23
	♦INL	MISI
	♦MOTA	♦MULB
	♦NPC	♦NSC
	♦PHIN	RTCF
	♦SIX	SLD
	TADI	THCF
	♦TII	TIIB
	TIID	TIIF
	TSC	UPI
		♦VALG
2N4393	△♦SODI	162 - 83
	CSR	ELMA 233 - 24
	♦INL	MISI
	♦MOTA	♦MULB
	♦NPC	♦NSC
	♦PHIN	RTCF
	♦SIX	SLD
	TADI	THCF
	♦TII	TIIB
	TIID	TIIF
	TSC	UPI
		♦VALG
2N4395	CSR	215 - 2
	GIC	IDI 241 - 95
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STC
	TEC	TRW
2N4396	CSR	215 - 3
	GIC	IDI 241 - 96
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STC
	TEC	TRW
2N4398	△♦MOTA	185 - 50
	CSR	♦FSC 241 - 58
	KER	PPC
	♦SES	♦SSI
	STC	TEC
	♦TII	TIIB
2N4399	△♦MOTA	185 - 51
	CSR	♦FSC 241 - 59
	KER	PPC
	♦SES	♦SSI
	STC	TEC
	♦TII	TIIB
JAN2N4399	MOTA	185 - 52
		250 - 19
2N4400	△♦MOTA	132 - 5
	CSR	FSC 258 - 35
	ITT	NASB
	NJS	NSC
	NTR	PRE
	SEI	SES
	SST	STI
		TSC
2N4401	△♦MOTA	132 - 12
	CSR	FSC 260 - 97
	ITT	NASB
	NJS	NSC
	NTR	PRE
	SEI	SES
	SST	STI
		TSC
2N4402	△♦MOTA	102 - 83
	CSR	FSC 256 - 56
	ITT	NASB
	NJS	NSC
	NTR	PRE
	SEI	SES
	SST	STI
	TII	TSC
2N4403	△♦MOTA	102-100
	CSR	FSC 258 - 36
	ITT	NASB
	NJS	NSC
	NTR	PRE
	SEI	SES
	SST	STI
	TII	TSC
2N4404	△♦MOTA	176 - 55
	SCA	SES 258 - 47
	SSI	TEC
2N4405	△♦MOTA	176 - 56
	CSR	SCA 258 - 48
	SES	SSI
		TEC
JAN2N4405	MOTA	175 - 27
		TEC 266 - 57
2N4406	△♦MOTA	176 - 57
	CSR	SCA 257 - 27
	SES	SSI
		TEC
2N4407	△♦MOTA	176 - 58
	CSR	KER 257 - 28
	SCA	SES
	SSI	TEC
2N4409	△♦MOTA	142 - 84
	CSR	FSC
	NPC	NSC
	NTR	PRE
	SEI	STI
	TII	TSC
2N4410	△♦MOTA	142 - 85
	CSR	FSC
	NSC	NTR
	STI	TII
		TSC
2N4412	△♦SPR	108 - 59
	CEI	CSR
	HZN	IDC
	SES	STI
	TEC	UPI
2N4412A	△♦SPR	108 - 60
	CSR	HZN
	IDC	SES
	STI	UPI
2N4413	△♦SPR	105-102
	CSR	HZN
	IDC	SES
	STI	TEC
		UPI
2N4413A	△♦SPR	105-103
	CSR	HZN
	IDC	SES
	STI	UPI
2N4414	△♦SPR	108 - 61
	CEI	CSR
	HZN	IDC
	SES	STI
	TEC	UPI
2N4414A	△♦SPR	108 - 62
	CSR	HZN
	IDC	SES
	STI	UPI
2N4415	△♦SPR	105-104
	CSR	HZN
	IDC	SES
	STI	TEC
		UPI
2N4415A	△♦SPR	105-105
	CSR	HZN
	IDC	SES
	STI	UPI
2N4416	△♦SODI	156 - 3
	CSR	♦FSC
	♦INL	MISI
	♦MOTA	♦NPC
	♦NSC	♦SIX
	SLD	TADI
	THCF	♦TII
	TIIB	TIID
	TIIF	♦TSC
	UPI	♦VALG
2N4416A	△SODI	156 - 4
	ESI	♦FSC
	INL	♦NSC
	♦SIX	SLD
	TADI	♦TII
cont.next col.		
2N4416A		
(cont.)	TIIB	
	TIID	TIIF
	♦TSC	UPI
JAN2N4416A	TII	156 - 5
2N4417	△♦SODI	153 - 89
		SIX
2N4418	ITT	135 - 4
		265 - 80
2N4419	ITT	134 - 84
		264 - 65
2N4420	ITT	134 - 61
		263 - 93
2N4421	ITT	134 - 30
		262 - 65
2N4422	ITT	134 - 62
		263-103
2N4423	NSC	104 - 73
	♦TII	264 - 96
2N4424	△♦GESY	132 - 86
	CSR	IDC
	MISI	NSC
	SES	SLD
	♦SPR	STI
	THCF	UPI
2N4425	△♦GESY	140 - 16
	CSR	IDC
	MISI	SES
	SLD	♦SPR
	STI	THCF
		UPI
2N4427	△♦RCA	190 - 62
	ALGG	♦APX
	♦FERB	HZN
	IDI	KER
	MOTA	♦MULB
	♦PHIC	♦PHIN
	PRE	SCA
	SEI	♦SES
	SGAI	♦SSS
	TADI	TII
	TIIB	UPI
		♦VALG
2N4428	△♦TRW	190 - 63
	CSR	FERB
	FSC	IDI
	KER	♦MOTA
	RTN	SCA
	♦SES	♦SSS
	TADI	TII
	TIIB	UPI
2N4429	△♦TRW	192 - 99
	FERB	KER
	♦SES	♦SSS
	TADI	♦TII
	TIIB	TIID
		UPI
2N4430	△♦TRW	197-105
	FERB	KER
	♦SES	♦SSS
	TADI	♦TII
	TIIB	UPI
2N4431	△♦TRW	201 - 97
	FERB	IDI
	KER	♦SES
	♦SSS	TADI
	♦TII	TIIB
		UPI
2N4432	ΔLTTF	142 - 1
		TIIF
2N4432A	LTTF	142 - 2
2N4433	CSR	115-106
	ETC	NJS
		PHIC
2N4434	STI	113 - 68
2N4435	STI	113 - 65
2N4436	△♦FSC	118 - 8
	CSI	CSR 257 - 29
	NPC	SLD
	SST	STI
2N4437	CSI	118 - 88
	CSR	♦FSC 262 - 16
	KER	NPC
	SLD	SST
		STI
2N4438	ETC	194 - 51
	IDI	NJS
		SCA
2N4439	IDI	194 - 52
		SCA
2N4440	△♦RCA	198 - 79
	KER	MOTA
	RTN	♦SES
	♦SSS	TADI
	TII	TIIB
JAN2N4440	RCA	199 - 7
2N4445	INL	161 - 72
	♦TCY	TIID 233 - 81
		TSC
2N4446	INL	161 - 73
	MISI	♦TCY 233 - 82
	THCF	TIID
		TSC
2N4447	INL	161 - 74
	♦TCY	TIID 233 - 83
		TSC
2N4448	INL	161 - 75
	MISI	♦TCY 233 - 84
	THCF	TIID
		TSC
2N4449	ΔFSC	128-100
	RTN	SCA 266 - 18
JAN2N4449	TEC	128-101
		265 - 81

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2N4450	MOTA	133 - 88
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2N4452	SCA	102-101
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2N4453	♦MOTA	101 - 79
		264 - 82
JAN2N4453	TEC	101 - 80
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2N4851	△♦MOTA	276 - 99
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SES	♦TII	
2N4852	△♦MOTA	276-100
PRE	SEI	
SES	♦TII	
2N4853	△♦MOTA	276-101
PRE	SEI	
SES	♦TII	
2N4854	△♦TII	259 - 10
MOTA	RTN	268 - 47
TIIB	TIIF	
JAN2N4854	MOTA	259 - 60
		268 - 48
2N4855	△♦TII	259 - 11
MOTA	RTN	268 - 49
TIIB	TIIF	
2N4856	△♦TII	160 - 15
ELMA	♦INL	233 - 10
♦MOTA	♦MULB	
♦NSC	♦PHIN	
RTCF	♦SIX	
SLD	SODI	
TADI	TIID	
TIIF	♦TSC	
	♦VALG	
JAN2N4856	SIX	160 - 16
TII	TSC	
2N4856A	△♦TII	160 - 17
♦INL	♦MOTA	233 - 11
♦NSC	SIX	
SLD	SODI	
TADI	TIIB	
TIID	TIIF	
2N4857	△♦TII	160 - 18
ELMA	♦INL	233 - 17
♦MOTA	♦MULB	
♦NSC	♦PHIN	
RTCF	♦SIX	
SLD	SODI	
TADI	TIID	
TIIF	♦TSC	
	♦VALG	
JAN2N4857	SIX	160 - 19
TII	TSC	
2N4857A	△♦TII	160 - 20
♦INL	♦MOTA	233 - 18
♦NSC	SIX	
SLD	SODI	
TADI	TIIB	
TIID	TIIF	
2N4858	△♦TII	160 - 21
ELMA	♦INL	233 - 58
♦MOTA	♦MULB	
♦NSC	♦PHIN	
RTCF	♦SIX	
SLD	SODI	
TADI	TIID	
TIIF	♦TSC	
	♦VALG	
JAN2N4858	SIX	160 - 22
TII	TSC	
2N4858A	△♦TII	160 - 23
♦INL	♦MOTA	233 - 50
♦NSC	SIX	
SLD	SODI	
TADI	TIIB	
TIID	TIIF	
♦TSC	♦VALG	
JAN2N4859	SIX	160 - 25
TII	TSC	
2N4859A	△♦TII	160 - 26
♦INL	♦MOTA	233 - 13
♦NSC	SIX	
SLD	SODI	
TADI	TIIB	
TIID	TIIF	
2N4860	△♦TII	160 - 27
ELMA	♦INL	233 - 19
♦MOTA	♦MULB	
♦NSC	♦PHIN	
RTCF	♦SIX	
SLD	SODI	
TADI	TIID	
TIIF	♦TSC	
	♦VALG	
JAN2N4860	SIX	160 - 28
TII	TSC	
2N4860A	△♦TII	160 - 29
♦INL	♦MOTA	233 - 20
♦NSC	SIX	
SLD	SODI	
TADI	TIIB	
TIID	TIIF	
	TSC	
2N4861	△♦TII	160 - 30

cont.next col.

TYPE No.	MFRS	Pg&Line
2N4861		
(cont.)	ELMA	233 - 59
♦INL	♦MOTA	
♦MULB	♦NSC	
♦PHIN	RTCF	
♦SIX	SLD	
SODI	TADI	
TIID	TIIF	
♦TSC	♦VALG	
JAN2N4861	TII	160 - 31
	TSC	
2N4861A	△♦TII	160 - 32
♦INL	♦MOTA	233 - 51
♦NSC	SIX	
SLD	SODI	
TADI	TIIB	
TIID	TIIF	
2N4862	♦AMC	195 - 25
CSR	♦GSE	
HZN	KER	
SLD	♦SOD	
SST	TEC	
	UNI	
2N4863	♦AMC	195 - 26
CSR	♦GSE	
HZN	IDI	
KER	PPC	
SCA	SDE	
SLD	♦SOD	
SSI	SST	
STC	TEC	
	UNI	
2N4864	♦AMC	204 - 42
CSR	♦GSE	
HZN	IDI	
KER	SCA	
SDE	SLD	
♦SOD	SSI	
SST	STC	
TEC	UNI	
2N4865	AMC	230 - 10
HZN	KER	244 - 7
PTI	♦SOD	
STC	TEC	
JAN2N4865	TEC	230 - 11
		253 - 26
2N4866	HZN	230 - 12
KER	PTI	244 - 8
♦SOD	STC	
	TEC	
2N4867	△♦SIX	156 - 6
♦INL	NSC	
	TIID	
2N4867A	△♦SIX	156 - 7
♦INL	NSC	
SODI	TIID	
2N4868	△♦SIX	156 - 8
♦INL	NSC	
	TIID	
2N4868A	△♦SIX	156 - 9
♦INL	NSC	
SODI	TIID	
2N4869	△♦SIX	156 - 10
♦INL	NSC	
	TIID	
2N4869A	△♦SIX	156 - 11
♦INL	NSC	
SODI	TIID	
2N4870	△♦MOTA	276-102
2N4871	△♦MOTA	276-103
2N4873	IDI	135 - 25
SCA	TEC	266 - 74
2N4874	△♦TII	143 - 95
IDI	RTN	
SCA	SLD	
SST	TIID	
2N4875	△♦TII	143 - 93
IDI	RTN	
SCA	SLD	
SST	TIID	
2N4876	△♦TII	143 - 92
IDI	RTN	
SCA	SLD	
SST	TIID	
2N4877	△♦MOTA	197-106
CSR	♦FSC	246 - 48
GSE	IDI	
SCA	SLD	
SSI	SST	
STC	TEC	
2N4878	♦INL	124 - 38
♦SODI	STI	270 - 71
2N4879	♦INL	124 - 32
♦SODI	STI	270 - 72
2N4880	♦INL	124 - 33
♦SODI	STI	270 - 73
2N4881	△♦TSC	162 - 59
	TIID	
2N4882	△♦TSC	162 - 60
	TIID	
2N4883	△♦TSC	162 - 61
	TIID	
2N4884	△♦TSC	162 - 62
	TIID	
2N4885	△♦TSC	162 - 63
	TIID	
2N4886	△♦TSC	162 - 64
	TIID	
2N4888	△♦FSC	100 - 40
	STI	
2N4889	△♦FSC	100 - 41
2N4890	△♦MOTA	176 - 59
CSR	MISI	254 - 15

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TYPE No.	MFRS	Pg&Line
2N4890		
(cont.)	SCA	
SES	STI	
TEC	THCF	
2N4891	△♦TII	276-104
MOTA	SLD	
SST	TIIB	
	TIID	
2N4892	△♦TII	276-105
MOTA	SLD	
SST	TIIB	
	TIID	
2N4893	△♦TII	276-106
ESI	MOTA	
SLD	SST	
TIIB	TIID	
2N4894	△♦TII	276-107
MOTA	SLD	
SST	TIIB	
	TIID	
2N4895	△♦FSC	145 - 34
GSE	IDI	251 - 95
KER	SCA	
SDE	SES	
SOD	SSI	
STI	TRW	
2N4896	△♦FSC	146 - 2
CSR	GSE	253 - 64
IDI	KER	
SCA	SDE	
SES	SOD	
SSI	TRW	
2N4897	△♦FSC	145 - 35
GSE	IDI	251 - 96
KER	SCA	
SDE	SES	
SOD	SSI	
	TRW	
2N4898	△♦MOTA	179 - 46
CSR	♦FSC	
KER	PRE	
SEI	SES	
SLD	SOD	
SST	STC	
	TEC	
2N4899	△♦MOTA	179 - 47
CSR	♦FSC	
KER	SES	
SLD	SOD	
SST	STC	
	TEC	
2N4900	△♦MOTA	179 - 48
CSR	♦FSC	
KER	SES	
SLD	SOD	
SST	STC	
	TEC	
2N4901	△♦MOTA	183 - 64
CSR	ETIF	
♦FSC	♦MISI	
NASB	PPC	
PRE	SEI	
♦SES	SLD	
SOD	♦SSI	
SST	STC	
TEC	♦THCF	
♦TII	TIID	
2N4902	△♦MOTA	183 - 65
CSR	ETIF	
♦FSC	KER	
♦MISI	NASB	
PPC	♦SES	
SLD	SOD	
♦SSI	SST	
STC	TEC	
♦THCF	♦TII	
	TIID	
2N4903	△♦MOTA	183 - 66
CSR	ETIF	
♦FSC	KER	
♦MISI	NASB	
PPC	♦SES	
SLD	SOD	
♦SSI	SST	
STC	TEC	
♦THCF	♦TII	
	TIID	
2N4904	△♦MOTA	183 - 67
CSR	ETIF	
FSC	KER	
♦MISI	NASB	
PPC	♦SES	
SLD	SOD	
SSI	SST	
STC	TEC	
♦THCF	♦TII	
	TIID	
2N4905	△♦MOTA	183 - 68
CSR	ETIF	
FSC	IDC	
KER	♦MISI	
NASB	PPC	
PRE	SEI	
♦SES	SLD	
SOD	SSI	
SST	STC	
TEC	♦THCF	
♦TII	TIID	
2N4906	△♦MOTA	183 - 69
CSR	ETIF	
FSC	KER	
♦MISI	NASB	
PPC	♦SES	

cont.next col.

TYPE No.	MFRS	Pg&Line
2N4906		
(cont.)	SLD	
SOD	SSI	
SST	STC	
TEC	♦THCF	
♦TII	TIID	
2N4907	△MOTA	184-102
CSR	FSC	
PPC	SES	
SOD	SSI	
	TEC	
2N4908	△MOTA	184-103
CSR	FSC	
KER	PPC	
♦SES	SOD	
SSI	TEC	
2N4909	△MOTA	184-104
CSR	FSC	
PPC	SES	
SOD	SSI	
	TEC	
2N4910	△♦MOTA	203 - 61
CSR	♦FSC	
GSE	IDI	
PPC	PRE	
SCA	SDE	
SEI	SES	
SLD	SOD	
SSI	SST	
STC	TEC	
	TRW	
2N4911	△♦MOTA	203 - 62
CSR	♦FSC	
GSE	IDI	
KER	PPC	
PRE	SCA	
SDE	SEI	
SES	SLD	
SOD	SSI	
SST	STC	
TEC	TRW	
2N4912	△♦MOTA	203 - 63
CSR	♦FSC	
GSE	IDI	
KER	PPC	
PRE	SCA	
SDE	SEI	
SES	SLD	
SOD	SSI	
SST	STC	
TEC	TRW	
2N4913	△♦MOTA	215 - 4
CSR	ETIF	
♦FSC	GIC	
GSE	IDI	
KER	PPC	
PRE	♦SCA	
SDE	SEI	
SEN	♦SES	
SLD	SOD	
SPC	SSI	
SST	STC	
TEC	♦TII	
	TIID	
2N4914	△♦MOTA	215 - 5
CSR	ETIF	
♦FSC	GIC	
GSE	IDI	
KER	PPC	
PRE	♦SCA	
SDE	SEI	
SEN	♦SES	
SLD	SOD	
SPC	SSI	
SST	STC	
TEC	♦TII	
	TIID	
2N4915	△♦MOTA	215 - 6
CSR	ETIF	
♦FSC	GSE	
IDI	KER	
PPC	PRE	
♦SCA	SDE	
SEI	SEN	
♦SES	SLD	
SOD	SPC	
SSI	SST	
STC	TEC	
♦TII	TIID	
2N4916	△♦FSC	96 - 38
♦CSI	CSR	265 - 1
NASB	NSC	
SES	SGAI	
SLD	SST	
STI	TSC	
2N4917	△♦FSC	96 - 41
♦CSI	CSR	265 - 60
NASB	NSC	
SGAI	SLD	
SST	STI	
	TSC	
2N4918	△♦MOTA	180-107
NJS	SLD	
SST	UPI	
2N4919	△♦MOTA	180-108
NJS	UPI	
2N4920	△♦MOTA	180-109
NJS	UPI	
2N4921	△♦MOTA	207 - 99
NJS	UPI	
2N4922	△♦MOTA	207-100
NJS	UPI	
2N4923	△♦MOTA	207-101

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TYPE No.	MFRS	Pg&Line
2N4923		
(cont.)	NJS	
SES	UPI	
2N4924	△♦MOTA	192-100
CSR	HSC	
IDI	NSC	
NTR	SCA	
SSI	STI	
TEC	UPI	
2N4925	△♦MOTA	192-101
CSR	HSC	
SES	SSI	
STI	TEC	
	UPI	
2N4926	△♦MOTA	192-102
CSR	ETC	
♦FSC	IDI	
NJS	NSC	
NTR	SCA	
SES	SSI	
STC	STI	
TEC	TIIF	
JAN2N4926	none	192-103
2N4927	△♦MOTA	192-104
CSR	ETC	
♦FSC	IDI	
NJS	NSC	
NTR	SCA	
SES	SSI	
STC	STI	
	TEC	
JAN2N4927	none	192-105
2N4928	CSR	108 - 74
IDI	♦MOTA	
SCA	SES	
SLD	SST	
STI	TEC	
	TIIF	
2N4929	△♦MOTA	176 - 60
CSR	KER	
SCA	SES	
SLD	SST	
STI	TEC	
2N4930	△♦MOTA	176 - 61
CSR	NSC	
NTR	SCA	
SES	SLD	
SST	STC	
STI	TEC	
JAN2N4930	MOTA	176 - 62
	TEC	
2N4931	△♦MOTA	176 - 63
CSR	KER	
NSC	NTR	
PRE	SCA	
SEI	SES	
SLD	SST	
STC	STI	
	TEC	
JAN2N4931	MOTA	176 - 64
	TEC	
2N4932	△♦RCA	212-100
KER	SSI	
2N4933	△♦RCA	212-101
KER	♦SES	
	SSI	
2N4934	NSC	121 - 22
NTR	SCA	
2N4935	NSC	121 - 23
NTR	SCA	
2N4936	NSC	121 - 24
NTR	SCA	
2N4937	△♦MOTA	108 - 33
NTR	RTN	270 - 74
	STI	
2N4938	△♦MOTA	108 - 34
NTR	RTN	270 - 75
	STI	
2N4939	△♦MOTA	279 - 26
NTR	RTN	
2N4940	△♦MOTA	98 - 52
NTR	RTN	270 - 76
2N4941	△♦MOTA	98 - 53
NTR	RTN	270 - 77
2N4942	△♦MOTA	279 - 27
NTR	RTN	
2N4943	CSR	146-100
IDI	NASB	
NSC	NTR	
SSI	TEC	
2N4944	△FSC	121 - 76
CSI	CSR	
ETC	NJS	
NPC	NSC	
SLD	SST	
STI	♦TSC	
2N4945	△FSC	121 - 77
CSR	NPC	
NSC	SLD	
SST	STI	
	♦TSC	
2N4946	△FSC	121 - 78
CSR	ETC	
NJS	NPC	
NSC	SLD	
SST	STI	
	♦TSC	
2N4947	△♦TII	276-108
SLD	SST	
TIIB	TIID	
JAN2N4947	none	276-109
2N4948	△♦TII	276-110
♦MOTA	SES	

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TYPE No.	MFRS	Pg&Line
2N4948		
(cont.)	SLD	
SST	TIIB	
	TIID	
JAN2N4948	MOTA	277- 1
	TII	
2N4949	△♦TII	277- 2
♦MOTA	SES	
SLD	SST	
TIIB	TIID	
JAN2N4949	MOTA	277- 3
	TII	
2N4950	△STC	230- 13
KER	SES	236- 52
SLD	SPC	
SST	TEC	
2N4951	△♦SPR	133- 89
CSR	IDC	261- 80
MISI	NSC	
NTR	SES	
	THCF	
2N4952	△♦SPR	133- 90
CSR	IDC	261- 81
MISI	NSC	
NTR	SES	
	THCF	
2N4953	△♦SPR	133- 91
CSR	IDC	261- 82
MISI	NSC	
NTR	SES	
	THCF	
2N4954	△♦SPR	133- 92
CSR	IDC	261- 83
MISI	NSC	
NTR	SES	
	THCF	
2N4955	CSR	132- 25
	INL	279- 28
2N4956	INL	131- 71
		270- 78
2N4957	△♦MOTA	96- 55
ESI	SCA	
JAN2N4957	MOTA	96- 56
2N4958	△♦MOTA	96- 53
	SCA	
2N4959	△♦MOTA	96- 54
SCA	SSI	
2N4960	CEI	147- 44
CSR	SSI	262- 32
	TEC	
2N4961	△FSC	139- 26
CSR	SSI	262- 33
	TEC	
2N4962	△FSC	147- 45
CSR	SSI	262- 34
	TEC	
2N4963	CSR	139- 27
SSI	TEC	262- 35
2N4964	CSI	95-105
CSR	IDI	
NASB	NPC	
NSC	SLD	
SST	TSC	
2N4965	CSI	95-106
CSR	FSC	
IDI	NASB	
NPC	NSC	
SLD	SST	
	TSC	
2N4966	CSI	117- 50
CSR	IDI	
NASB	NPC	
NSC	SDE	
♦SES	SLD	
SST	STI	
	TSC	
2N4967	CSI	117- 51
CSR	FSC	
IDI	NASB	
NPC	NSC	
SDE	♦SES	
SLD	STI	
	TSC	
2N4968	CSI	117- 52
CSR	FSC	
IDI	NASB	
NPC	NSC	
SDE	♦SES	
SLD	STI	
	TSC	
2N4969	CSR	118- 9
FSC	IDI	256-100
NASB	NPC	
NSC	SDE	
♦SES	SLD	
SST	STI	
	TSC	
2N4970	CSR	118- 44
FSC	IDI	259- 12
NASB	NPC	
NSC	SDE	
♦SES	SLD	
SST	STI	
	TSC	
2N4971	CSI	96- 19
CSR	IDI	259- 94
MEHK	NASB	
NPC	NSC	
SDE	♦SES	
SLD	SST	
STI	TSC	
2N4972	CSI	96- 20
CSR	IDI	260- 18
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N4972		
(cont.)	MEHK	
NASB	NPC	
NSC	SDE	
♦SES	SLD	
SST	STI	
	TSC	
2N4974	△♦MOTA	281-103
2N4975	△♦MOTA	281-104
2N4976	△♦TRW	192-106
	KER	
2N4977	△♦TSC	162- 84
MISI	THCF	233- 25
	TIID	
2N4978	△♦TSC	162- 85
MISI	THCF	233- 60
	TIID	
2N4979	△♦TSC	162- 86
ESI	INL	234- 9
MISI	THCF	
	TIID	
2N4980	TCY	105- 84
		278- 17
2N4981	RTN	105- 74
	TCY	278- 18
2N4982	CSR	105- 62
	TCY	278- 19
2N4994	CSR	133- 64
♦GESY	SLD	
SST	STI	
	TIIC	
2N4995	CSR	133- 65
♦GESY	SLD	
SST	STI	
	TIIC	
2N4996	△♦TII	123- 42
CSR	SLD	
SST	STI	
TIIB	TIIC	
2N4997	△♦TII	123- 43
CSR	SLD	
SST	STI	
TIIB	TIIC	
2N4998	CSR	206- 7
♦GSE	IDI	
KER	♦PPC	
SCA	SLD	
SOD	SSI	
SST	STC	
STI	TEC	
♦TII	TIIB	
	TRW	
2N4999	KER	180- 16
♦PPC	SCA	
SLD	SOD	
SSI	SST	
TEC	♦TII	
	TIIB	
2N5000	CSR	206- 8
♦GSE	HZN	
IDI	KER	
♦PPC	SCA	
SLD	SOD	
SSI	SST	
STC	TEC	
♦TII	TIIB	
	TRW	
2N5001	HZN	180- 17
NJS	♦PPC	
PRE	SCA	
SEI	SLD	
SOD	SSI	
SST	TEC	
♦TII	TIIB	
	TRW	
2N5002	△♦FSC	211- 64
AMC	CSR	
GSE	HZN	
IDI	KER	
♦PPC	SCA	
SLD	SOD	
SSI	SST	
STC	TEC	
♦TII	TIIB	
	TRW	
2N5003	△♦FSC	181- 96
AMC	HZN	
KER	♦PPC	
SCA	SLD	
SOD	SSI	
SST	TEC	
♦TII	TIIB	
2N5004	△♦FSC	211- 65
AMC	CSR	
GSE	HZN	
IDI	KER	
♦PPC	SCA	
SLD	SOD	
SSI	SST	
STC	TEC	
♦TII	TIIB	
	TRW	
2N5005	△♦FSC	181- 97
AMC	HZN	
KER	♦PPC	
SCA	SOD	
SSI	TEC	
♦TII	TIIB	
2N5006	AMC	218- 31
GSE	HZN	
♦IDI	KER	
♦PPC	SCA	
SDE	SLD	
SOD	SSI	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5006		
(cont.)	SST	
STC	TEC	
	TRW	
2N5007	AMC	184- 60
HZN	KER	
♦PPC	SCA	
SOD	SSI	
	TEC	
2N5008	AMC	218- 32
GSE	HZN	
KER	♦PPC	
SCA	SDE	
SLD	SOD	
SSI	SST	
STC	TRW	
2N5009	AMC	184- 61
HZN	KER	
♦PPC	SCA	
SOD	SSI	
	TEC	
2N5010	△STC	190- 64
CSR	IDI	
SCA	♦SSI	
	STI	
2N5011	△STC	190- 65
CSR	♦SSI	
	STI	
2N5012	△STC	190- 66
CSR	♦SSI	
	STI	
2N5013	△STC	190- 67
CSR	♦SSI	
	STI	
2N5014	△STC	190- 68
CSR	♦SSI	
2N5015	△STC	190- 69
CSR	♦SSI	
2N5016	△♦RCA	206- 9
KER	♦MOTA	
♦SES	SSI	
♦SSS	TADI	
TII	TIIB	
JAN2N5016	none	206- 10
2N5018	△♦TSC	152- 54
INL	NSC	233- 85
	TIID	
2N5019	△♦TSC	152- 55
INL	NSC	234- 73
	TIID	
2N5020	INL	151- 13
NSC	TSC	
2N5021	INL	151- 14
NSC	TSC	
2N5022	△♦FSC	176- 45
CSR	ITT	257- 81
KER	NSC	
NTR	RTN	
SSI	STI	
2N5023	△♦FSC	174- 98
ITT	NSC	258- 63
NTR	RTN	
SSI	STI	
2N5024	SCA	120-103
2N5025	△FSC	209- 21
	KER	
2N5026	△FSC	209- 22
KER	TII	
	TIIB	
2N5027	CSR	131- 14
	IDC	260- 98
2N5028	CSR	131- 15
	IDC	261- 21
2N5029	NSC	131- 20
		265- 82
2N5030	NSC	131- 19
		264- 66
2N5031	△♦MOTA	120- 40
CEI	FSC	
KMC	SCA	
2N5032	△♦MOTA	120- 41
CEI	FSC	
KMC	PRE	
SCA	SEI	
2N5033	△FSC	150- 41
CSR	INL	
NSC	TSC	
2N5037	♦SES	218- 33
2N5038	△♦RCA	220-109
CEI	CSR	252- 90
HZN	IDI	
KER	MISI	
♦PPC	SCA	
SDE	♦SES	
SLD	SSI	
SST	♦STC	
TEC	THCF	
♦TII	TIIB	
TRW	UNI	
JAN2N5038	RCA	220-110
		260- 71
2N5039	△♦RCA	221- 1
CEI	CSR	252- 91
HZN	IDI	
KER	MISI	
♦PPC	SCA	
SDE	SLD	
SSI	SST	
♦STC	TEC	
THCF	♦TII	
TIIB	TRW	
	UNI	
JAN2N5039	RCA	221- 2
		260- 72

TYPE No.	MFRS	Pg&Line
2N5040	△♦FSC	101- 85
CSR	NJS	
SST	STI	
2N5041	CSR	101- 86
SST	STI	
2N5042	△♦FSC	110-105
CSR	SCA	
SST	STI	
2N5043	SLD	78- 83
SSI	SST	
	TIID	
2N5044	SLD	78- 82
SSI	SST	
	TIID	
2N5045	△♦TII	154- 86
INL	NSC	270- 79
SIX	SLD	
SODI	TIIB	
TIID	TIIF	
	TSC	
2N5046	△♦TII	154- 87
INL	NSC	270- 80
SIX	SLD	
SODI	TIIB	
TIID	TIIF	
	TSC	
2N5047	△♦TII	154- 88
INL	NSC	270- 81
SIX	SLD	
SODI	TIIB	
TIID	TIIF	
	TSC	
2N5048	CSR	218- 34
IDI	SLD	243- 92
SSI	SST	
STC	TEC	
	TRW	
2N5049	CSR	218- 35
IDI	SLD	243- 98
SST	STC	
	TEC	
2N5050	△♦MOTA	209- 35
CSR	♦SES	243- 53
STC	TEC	
2N5051	△♦MOTA	209- 36
CSR	♦SES	243- 54
STC	TEC	
2N5052	△♦MOTA	209- 37
CSR	SES	243- 55
STC	TEC	
2N5053	♦APX	120-104
ETIF	KMC	
PHIC	SCA	
	SSI	
2N5054	△♦APX	121- 20
CEI	IDI	
KMC	SCA	
	SSI	
2N5055	△FSC	96- 47
CSR	NASB	266- 34
	NSC	
2N5056	CSR	104- 93
IDI	ITT	266- 50
NASB	NSC	
	NTR	
2N5057	△FSC	104-101
CSR	IDI	266- 96
ITT	NASB	
NSC	NTR	
2N5058	△♦TII	194- 53
CSR	♦FSC	
♦MOTA	SSI	
STC	STI	
TEC	TIID	
	TIIF	
2N5059S	♦MOTA	194- 56
2N5065	SCA	142- 33
		266- 32
		280- 96
2N5066	△♦TCY	135- 58
		278- 20
2N5067	△♦MOTA	215- 7
CEI	CSR	
ETIF	FSC	
GIC	IDI	
PPC	PRE	
SCA	SDE	
SEI	♦SES	
SLD	SPC	
SSI	SST	
STC	TEC	
♦TII	TIIB	
2N5068	△♦MOTA	215- 8
CEI	CSR	
ETIF	FSC	
GIC	IDI	
PPC	PRE	
SCA	SDE	
SEI	♦SES	
SLD	SPC	
SSI	SST	
STC	TEC	
♦TII	TIIB	
2N5069	△♦MOTA	215- 9
CEI	CSR	
ETIF	FSC	
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TYPE No.	MFRS	Pg&Line
2N5069		
(cont.)	IDI	
PPC	PRE	
SCA	SDE	
SEI	♦SES	
SLD	SPC	
SSI	SST	
STC	TEC	
♦TII	TIIB	
2N5070	ESI	212-102
KER	♦MOTA	
♦RCA	♦SES	
TII	TIIB	
2N5071	△♦RCA	212-103
KER	♦SES	
TII	TIIB	
JAN2N5071	RCA	212-104
2N5072	△LTTF	223- 54
SSI	TRW	
2N5073	△LTTF	140- 90
IDI	SCA	
SSI	TEC	
2N5074	IDI	212-105
KER	SCA	
SLD	SOD	
SST	STC	
TEC	UNI	
2N5075	IDI	212-106
KER	SCA	
SLD	SOD	
SST	STC	
TEC	UNI	
2N5076	IDI	212-107
KER	SCA	
SLD	SOD	
SST	STC	
TEC	UNI	
2N5077	IDI	212-108
KER	SCA	
SLD	SOD	
SST	STC	
TEC	UNI	
2N5078	△♦TSC	156- 12
INL	NSC	
SODI	TADI	
2N5079	△♦TSC	189- 76
CSR	TEC	
2N5080	△♦TSC	189- 77
CSR	TEC	
2N5081	TEC	135- 15
	TSC	
2N5082	TEC	135- 16
	TSC	
2N5083	GSE	206- 11
♦IDI	SCA	251- 97
SLD	SSI	
SST	STC	
TEC	TRW	
2N5084	GSE	206- 12
♦IDI	SCA	253- 65
SLD	SSI	
SST	STC	
TEC	TRW	
2N5085	GSE	206- 13
♦IDI	KER	251- 98
SCA	SLD	
SSI	SST	
STC	STI	
TEC	TRW	
2N5086	△TII	102- 58
CSR	FSC	
ITT	♦MOTA	
NPC	NSC	
NTR	PIHS	
SES	SST	
STI	TSC	
2N5087	△TII	102- 59
CSR	FSC	
ITT	♦MOTA	
NSC	NTR	
PIHS	PRE	
SEI	SES	
SST	STI	
	TSC	
2N5088	CSR	131- 53
FSC	♦MOTA	
NSC	NTR	
PIHS	SES	
STI	TSC	
2N5089	CSR	131- 54
FSC	♦MOTA	
NSC	NTR	
PIHS	SES	
SST	STI	
	TSC	
2N5090	△♦RCA	195- 27
ESI	KER	
♦MOTA	PRE	
SCA	SEI	
♦SES	SSI	
♦SSS	TADI	
TII	TIIB	
2N5091	CSR	174-102
SCA	SSI	
STC	STI	
2N5092	CSR	191- 76
IDI	SCA	
SSI	STC	
	STI	
2N5093	CSR	174-103
SCA	SSI	
STC	STI	
2N5094	CSR	174-104
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TYPE No.	MFRS	Pg&Line
2N5094		
(cont.)	SCA	
	SSI	STC
		STI
2N5095	CSR	191 - 77
	IDI	SCA
	SSI	STC
		STI
2N5096	CSR	174-105
	PRE	SEI
	SSI	STC
		STI
2N5097	CSR	191 - 78
	SSI	STC
		STI
2N5098	CSR	191 - 79
	SSI	STC
2N5099	CSR	191 - 80
	SSI	STC
2N5100	CSR	179 - 12
	SCA	SSI
	STC	STI
		TEC
2N5101	CSR	202-108
	SCA	SSI
	STC	STI
		TEC
2N5102	△♦RCA	195 - 28
	CSR	ESI
	KER	♦SES
	TII	TIIB
2N5103	ESI	156 - 13
	INL	NSC
		♦SODI
2N5104	INL	156 - 14
	NSC	♦SODI
2N5105	INL	156 - 15
		♦SODI
2N5106	SCA	147 - 99
	TEC	280 - 97
2N5107	CSI	135 - 32
	SCA	TEC 280 - 98
2N5108	IDI	190 - 70
	KER	♦MOTA
	PRE	RTN
	SCA	SEI
	♦SES	TADI
		TIIB
2N5108A	ΔRTN	190 - 71
2N5109	△♦RCA	190 - 72
	IDI	KER
	♦MOTA	PRE
	RTN	SCA
	SEI	♦SES
	♦SSS	TADI
		TIIB
JAN2N5109	RCA	192-107
2N5110	△♦STC	107 - 67
	SLD	SST
	STI	TCY
		TEC
2N5111	△♦STC	107 - 68
	SLD	SST
	TCY	TEC
2N5112	CSR	180-100
	SLD	SST
	STI	TCY
2N5113	CSR	180-101
	SLD	SST
	STI	TCY
2N5114	△♦SODI	152 - 36
	INL	NSC 233 - 61
	♦SIX	TSC
JAN2N5114	none	152 - 37
		233 - 62
2N5115	△♦SODI	152 - 38
	INL	NSC 233 - 86
	♦SIX	TSC
JAN2N5115	none	152 - 39
		233 - 87
2N5116	△♦SODI	152 - 40
	INL	NSC 234 - 10
		TSC
JAN2N5116	none	152 - 41
		234 - 20
2N5117	△♦SODI	106 - 47
	INL	270 - 82
2N5118	△♦SODI	106 - 48
	INL	270 - 83
2N5119	△♦SODI	106 - 49
	INL	270 - 84
2N5120	ΔSODI	99 - 61
		270 - 85
2N5121	ΔSODI	99 - 62
		270 - 86
2N5122	ΔSODI	99 - 63
		270 - 87
2N5123	ΔSODI	106 - 50
		270 - 88
2N5124	ΔSODI	106 - 51
		270 - 89
2N5125	ΔSODI	106 - 52
		270 - 90
2N5126	CSR	118-109
	FSC	IDI
	NJS	SES
	SST	STI
		TSC
2N5127	ΔFSC	118 - 10
	CSR	IDI
	NASB	NJS
	NPC	NSC
	PRE	SEI

TYPE No.	MFRS	Pg&Line
2N5127		
(cont.)	SES	
	SLD	SST
	STI	TSC
		UPI
2N5128	ΔFSC	118 - 11
	CSI	CSR
	IDI	NASB
	NJS	NSC
	SES	SLD
	SST	STI
	TSC	UPI
2N5129	CSI	126 - 4
	CSR	FSC
	IDI	NASB
	NJS	NPC
	NSC	PRE
	SEI	SES
	SGAI	SLD
	SST	STI
	TSC	UPI
2N5130	CSI	119 - 59
	CSR	♦FSC
	IDI	MEHK
	NASB	NJS
	NSC	SES
	SST	STI
	TSC	UPI
2N5131	△♦FSC	117-100
	CSI	CSR
	ETC	IDI
	NASB	NJS
	NPC	NSC
	SES	SLD
	SST	STI
	TSC	UPI
2N5132	△♦FSC	118 - 45
	CSI	CSR
	ETC	IDI
	NASB	NJS
	NPC	NSC
	SES	SLD
	SST	STI
	TSC	UPI
2N5133	△♦FSC	117 - 53
	♦CSI	CSR
	HZN	IDI
	MEHK	NASB
	NJS	NPC
	NSC	PRE
	SDE	SEI
	♦SES	SLD
	SST	STI
	TSC	UPI
2N5134	ΔFSC	118 - 89
	♦CSI	CSR 260 - 85
	HZN	IDI
	MEHK	NASB
	NJS	NPC
	NSC	PRE
	SEI	SES
	SST	STI
	TSC	UPI
2N5135	ΔFSC	124 - 80
	♦CSI	CSR
	IDI	MEHK
	NASB	NJS
	NPC	NSC
	♦SES	SLD
	SST	STI
	TSC	UPI
2N5136	ΔFSC	121 - 74
	♦CSI	CSR
	IDI	NJS
	NSC	PRE
	SDE	SEI
	♦SES	SLD
	SST	STI
	TSC	UPI
2N5137	ΔFSC	124 - 81
	♦CSI	CSR
	ETC	IDI
	MEHK	NASB
	NJS	NPC
	NSC	SDE
	♦SES	SLD
	SST	STI
	TSC	UPI
2N5138	△♦FSC	95 - 94
	CSI	CSR
	HZN	IDI
	MEHK	NASB
	NJS	NPC
	NSC	SDE
	♦SES	SLD
	SST	STI
	TSC	UPI
2N5139	△♦FSC	96 - 33
	CSI	CSR 263 - 43
	HZN	IDI
	MEHK	NASB
	NJS	NSC
	PRE	SEI
	SES	SLD
	SST	STI
	TSC	UPI
2N5140	△♦FSC	96 - 39
	CSR	IDI 264 - 83
	NASB	NJS
	NSC	SES
		STI
2N5141	CSR	96 - 34
	IDI	NASB 263 - 62

TYPE No.	MFRS	Pg&Line
2N5141		
(cont.)	NJS	
	NSC	SDE
	♦SES	SST
		STI
2N5142	△♦FSC	99 - 64
	CSR	IDI 254 - 37
	MEHK	NASB
	NJS	NSC
	SES	SLD
	SST	STI
		TSC
2N5143	△♦FSC	96 - 2
	CSR	IDI 254 - 38
	MEHK	NASB
	NJS	NPC
	NSC	SES
	SLD	SST
	STI	TSC
2N5145	SCA	147 - 64
		SES 280 - 99
2N5146	△♦MOTA	106 - 72
		RTN 256 - 70
2N5147	CSR	176-110
	PPC	SCA
	SES	SOD
	SSI	TEC
	♦TII	TIIB
	TRW	UPI
2N5149	CSR	177 - 1
	PPC	SCA
	SES	SOD
	SSI	TEC
	♦TII	TIIB
		UPI
2N5150	CEI	195 - 30
	CSR	♦GSE
	IDI	KER
	NSC	NTR
	PPC	SCA
	SDE	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
	TRW	UNI
		UPI
2N5151	CSR	178 - 15
	KER	PPC
	SCA	SOD
	SSI	TEC
	♦TII	TIIB
	UNI	UPI
2N5152	CEI	198 - 67
	CSR	ESI
	GSE	IDI
	KER	PPC
	SCA	SDE
	SES	SOD
	SSI	STC
	TEC	♦TII
	TIIB	TRW
	UNI	UPI
2N5153	CSR	178 - 16
	KER	PPC
	SCA	SES
	SOD	SSI
	TEC	♦TII
	TIIB	UPI
2N5154	CEI	198 - 68
	CSR	ESI
	GSE	IDI
	KER	PPC
	SCA	SDE
	SES	SSI
	STC	TEC
	♦TII	TIIB
	TRW	UPI
2N5155	△♦DEL	171 - 72
	CSR	GPD 237 - 3
	♦MOTA	PRE
	SEI	SES
	SSI	STC
2N5156	△♦DEL	170-100
	CSR	GPD 238 - 42
	MOTA	SES
	SLD	SST
		STC
JAN2N5156	none	171 - 38
		237 - 49
2N5157	△♦DEL	226 - 75
	CSR	KER 240 - 13
	♦MOTA	SES
	SOD	SPC
	STC	♦TII
		TIIB
JAN2N5157	DEL	226 - 76
		SPC 240 - 6
2N5158	ΔTCY	161 - 76
		233 - 88
2N5159	ΔTCY	161 - 77
		KER 233 - 89
2N5160	△♦MOTA	175 - 2
	CSR	ESI
		RTN
2N5161	△♦MOTA	178 - 97

TYPE No.	MFRS	Pg&Line
2N5162	△♦MOTA	181 - 47
		RTN
2N5163	♦INL	153 - 96
	MEHK	NSC
	SODI	♦TSC
		UPI
2N5172	△♦GESY	116-103
	CSR	MEHK
	NSC	PRE
	SEI	SES
	SLD	♦SPR
		STI
2N5174	△♦GESY	118-104
		CSR
2N5175	△♦GESY	116-105
		CSR
2N5176	△♦GESY	116-106
		SES
2N5177	△♦TRW	207 - 82
		KER
2N5178	△♦TRW	214 - 5
		KER
2N5179	△♦RCA	120 - 22
	FSC	IDI
	♦MOTA	NSC
	SCA	SES
	SSI	TIIB
		♦TSC
2N5180	ESI	116 - 33
	NSC	NTR
	SCA	SES
		TIIB
2N5181	NSC	116 - 28
	NTR	PRE
	SCA	SEI
		SES
2N5182	NSC	116 - 29
	NTR	SCA
		SES
2N5183	SCA	138 - 27
		SES
2N5184	SES	139 - 94
2N5185	SES	188-101
2N5186	SCA	128 - 80
	SES	TEC 264 - 94
2N5187	CEI	128 - 81
	SCA	SES 264 - 56
		TEC
2N5188	IDI	147 - 78
	PRE	SCA 234 - 2
	SEI	SES
	TADI	TEC
2N5189	△♦RCA	144 - 38
	CSR	NSC 188 - 72
	PRE	SCA 234 - 33
	SEI	SES
	SGAI	TIIF
2N5190	△♦MOTA	210 - 58
	NJS	PIHS
2N5191	△♦MOTA	210 - 59
	NJS	PIHS
		UPI
2N5192	△♦MOTA	210 - 60
	NJS	UPI
2N5193	△♦MOTA	182 - 3
	NJS	PIHS
		UPI
2N5194	△♦MOTA	182 - 4
	NJS	PIHS
		UPI
2N5195	△♦MOTA	182 - 5
	NJS	UPI
2N5196	△♦SIX	154 - 89
	♦INL	NSC 270 - 91
	SODI	TIID
	TSC	UPI
2N5197	△♦SIX	154 - 90
	♦INL	NSC 270 - 92
	SODI	TIID
		TSC
2N5198	△♦SIX	154 - 91
	♦INL	MISI 270 - 93
	NSC	SODI
	THCF	TIID
		TSC
2N5199	△♦SIX	154 - 92
	♦INL	MISI 270 - 94
	NSC	SODI
	TADI	THCF
	TIID	TSC
2N5200	SCA	129 - 25
		280-100
2N5201	CSR	129 - 46
	SCA	280-101
2N5202	AMC	206 - 14
	CSR	IDI 252 - 88
	PPC	♦RCA
	SCA	SDE
	SES	SSI
	STC	TEC
		TRW
2N5208		♦MOTA 102-109
2N5209	△♦MOTA	131 - 57
	CSR	FSC
	ITT	NPC
	NSC	NTR
	PIHS	SES
	SST	TII
		TSC
2N5210	△♦MOTA	131 - 58
	CSR	FSC
	ITT	NSC
	NTR	PIHS

TYPE No.	MFRS	Pg&Line
2N5210		
(cont.)	PRE	
	SEI	SES
	SST	TII
		TSC
2N5212	KER	196 - 59
2N5213	KER	196 - 60
2N5214	CSR	212 - 50
	KER	
2N5215	KER	202 - 82
	TII	
2N5216	CSR	203 - 84
	KER	
2N5217	KER	196 - 61
2N5218	ΔSOD	215 - 10
	KER	SLD 250 - 64
	SST	STC
	TEC	TRW
		UPI
2N5219	△♦MOTA	131-106
	CSR	FSC
	ITT	NPC
	NSC	NTR
	PIHS	SES
	STI	TII
	TSC	UPI
2N5220	△♦MOTA	131 - 75
	CSR	FSC
	ITT	NSC
	NTR	SES
	SGAI	STI
	TII	TSC
		UPI
2N5221	△♦MOTA	102 - 71
	CSR	ITT
	NSC	NTR
	SES	STI
	TII	TSC
		UPI
2N5222	△♦MOTA	132 - 57
	NSC	NTR
	SES	STI
	TII	UPI
2N5223	△♦MOTA	131-107
	CSR	FSC
	ITT	NPC
	NSC	NTR
	PIHS	SES
	STI	TII
	TSC	UPI
2N5224	△♦MOTA	132 - 13
	CSR	FSC 260 - 99
	ITT	NSC
	NTR	PIHS
	SES	SST
	STI	TSC
		UPI
2N5225	△♦MOTA	131 - 68
	CSR	FSC
	ITT	NSC
	NTR	SES
	STI	TII
	TSC	UPI
2N5226	△♦MOTA	102 - 65
	CSR	FSC
	ITT	NSC
	NTR	SES
	STI	TII
	TSC	UPI
2N5227	△♦MOTA	102 - 72
	CSR	FSC
	ITT	NPC
	NSC	NTR
	PIHS	SES
	STI	TII
	TSC	UPI
2N5228	△♦MOTA	102-110
	CSR	FSC 263 - 55
	ITT	NTR
	PIHS	SES
	STI	UPI
2N5229	△♦MOTA	176 - 7
	CSR	SSI 278 - 21
2N5230	△♦MOTA	176 - 8
	CSR	RTN 278 - 22
	SSI	STI
		TEC
2N5231	△♦MOTA	176 - 9
	CSR	RTN 278 - 23
	TEC	UPI
2N5232	△♦GESY	131 - 22
	CSR	NSC
	NTR	SES
		♦SPR
2N5232A	△♦GESY	131 - 23
	CSR	NSC
	NTR	PRE
	SEI	SES
		♦SPR
2N5233	CSR	131 - 24
2N5234	CSR	131 - 25
2N5235	CSR	131 - 26
2N5236	SCA	142 - 31
	SSI	280-102
2N5237	ΔSOD	196 - 92
	CSR	GSE 252 - 3
	IDI	KER
	SCA	SDE
	SSI	STC
		TRW
JAN2N5237	TEC	196 - 93
		253 - 49
2N5238	ΔSOD	196 - 94

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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
2N5238		
(cont.)	AMC	252- 4
	GSE	IDI
	KER	SCA
	SDE	SSI
	STC	TRW
JAN2N5238	none	196- 95
		253- 50
2N5239	△♦RCA	216- 66
	IDI	SCA
	SES	SOD
	SPC	SSI
		STC
2N5240	△♦RCA	216- 67
	IDI	KER
	SCA	SES
	SOD	SPC
	SSI	STC
2N5241	△♦DEL	227- 93
	ETIF	KER
	♦MOTA	SES
	SOD	SPC
	SSI	STC
	♦TII	TIIB
JAN2N5241	DEL	222-108
		244- 32
2N5243	CSR	108- 22
	PRE	SEI
2N5244	ITT	104- 79
		280-103
2N5245	△♦TII	160- 33
	INL	NSC
	SLD	TIIB
	TIIC	TIID
2N5246	△♦TII	160- 34
	INL	NSC
	SLD	TIIB
	TIIC	TIID
		TSC
2N5247	△♦TII	160- 35
	INL	NSC
	SLD	TIIB
	TIIC	TIID
		TSC
2N5248	△♦TII	160- 36
	NSC	SLD
	TIIB	TIID
2N5249	△♦GESY	131- 27
	CSR	TIIC
2N5249A	△♦GESY	131- 28
	CSR	
2N5250	△SOD	230- 14
	AMC	KER
	PTI	STC
		TEC
JAN2N5250	SOD	230- 15
	TEC	253- 27
2N5251	△SOD	230- 16
	KER	PTI
	STC	TEC
JAN2N5251	none	230- 17
		253- 28
2N5252	TEC	195- 31
2N5253	TEC	195- 32
2N5254	CSR	102- 60
	INL	SCA
2N5255	CSR	102- 61
	INL	SCA
2N5256	CSR	102- 62
	INL	SCA
2N5262	△♦RCA	144- 39
	CEI	CSR
	IDI	KER
	RTN	SCA
	SES	SGAI
	SST	STI
2N5264	CSR	215- 11
	IDI	KER
	SCA	SLD
	SSI	SST
	STC	TEC
2N5265	△♦MOTA	150- 42
		INL
2N5266	△♦MOTA	150- 43
		INL
2N5267	△♦MOTA	150- 44
		INL
2N5268	△♦MOTA	150- 45
		INL
2N5269	△♦MOTA	150- 46
		INL
2N5270	△♦MOTA	150- 47
		INL
2N5271	△♦MOTA	233- 2
		268- 4
2N5277	△♦TSC	162- 65
	TIID	
2N5278	△♦TSC	162- 66
	TIID	
2N5279	ETC	192-108
	IDI	NJS
	SCA	SSI
	STC	STI
2N5280	SCA	190- 4
	SSI	STC
		STI
2N5281	CSR	175- 3
	SCA	SSI
	STC	STI
2N5282	CSR	175- 4
	SCA	SSI
	STC	STI
2N5284	CSR	211- 66
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5284		
(cont.)	GSE	
	IDI	KER
	SCA	SOD
	SSI	STC
		TRW
2N5285	CSR	211- 67
	GSE	IDI
	KER	SCA
	SOD	SSI
	STC	TRW
2N5286	CSR	182- 68
	KER	PPC
	SCA	SOD
		SSI
2N5287	KER	182- 69
	PPC	SCA
	SOD	SSI
2N5288	GSE	218- 36
	KER	SCA
	SOD	SSI
	STC	TRW
2N5289	GSE	218- 37
	KER	PPC
	SCA	SOD
	SSI	STC
		TRW
2N5290	KER	184- 62
	PPC	SCA
	SOD	SSI
2N5291	KER	184- 63
	PPC	SCA
	SOD	SSI
2N5293	△♦RCA	209-101
	NJS	PPC
	♦SES	♦SOD
2N5294	△♦RCA	209-102
	MISI	NJS
	♦PPC	PRE
	SEI	♦SES
	♦SOD	♦THCF
		UPI
2N5295	△♦RCA	209-103
	NJS	♦PPC
	♦SES	♦SOD
2N5296	△♦RCA	209-104
	KER	MISI
	NJS	♦PPC
	♦SES	♦SOD
		♦THCF
2N5297	△♦RCA	209-105
	NJS	PPC
	♦SES	♦SOD
2N5298	△♦RCA	209-106
	MISI	NJS
	♦PPC	♦SES
	♦SOD	♦THCF
2N5301	△MOTA	225- 79
	♦FSC	KER
	PPC	SDE
	♦SES	SLD
	♦SSI	SST
	STC	TEC
	♦TII	TIIB
	TIID	TRW
JAN2N5302	MOTA	225- 81
		250- 65
2N5303	△MOTA	225- 82
	♦FSC	PPC
	SDE	♦SES
	SLD	♦SSI
	SST	STC
	TEC	♦TII
	TIIB	TIID
		TRW
JAN2N5303	MOTA	225- 83
		250- 66
2N5304	△♦MOTA	211- 68
		280-104
2N5305	△♦GESY	135- 87
	CSR	NSC
		NTR
2N5306	△♦GESY	135- 88
	CSR	NSC
	NTR	SST
2N5306A	△♦GESY	281-107
2N5307	△♦GESY	135- 89
	CSR	NSC
	NTR	SST
2N5308	△♦GESY	135- 90
	CSR	MEHK
	NSC	NTR
		SST
2N5308A	△♦GESY	281-110
2N5309	△♦GESY	131- 29
		CSR
2N5310	△♦GESY	131- 30
		CSR
2N5311	△GESY	131- 31
		CSR
2N5312	△♦SOD	183- 70
	CSR	KER
	PPC	SCA
	SLD	SSI
	SST	TEC

TYPE No.	MFRS	Pg&Line
2N5313	△SOD	215- 12
	♦AMC	CSR
	GSE	IDI
	KER	PPC
	SCA	SDE
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N5314	△♦SOD	183- 71
	KER	PPC
	SCA	SLD
	SSI	SST
		TEC
2N5315	△SOD	215- 13
	♦AMC	CSR
	GSE	IDI
	KER	PPC
	SCA	SDE
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N5316	△SOD	183- 72
	AMC	CSR
	PPC	SCA
	SLD	SSI
	SST	TEC
2N5317	△SOD	215- 14
	AMC	CSR
	GSE	IDI
	KER	PPC
	SCA	SDE
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N5318	△SOD	183- 73
	AMC	CSR
	KER	PPC
	SCA	SLD
	SSI	SST
		TEC
2N5319	△SOD	215- 15
	AMC	CSR
	GSE	IDI
	KER	PPC
	SCA	SDE
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N5320	△♦RCA	197-107
	CSR	FSC
	IDI	KER
	PRE	SCA
	SEI	SES
	SGAI	SLD
	SSI	SST
	STC	STI
		TEC
2N5321	△♦RCA	197-108
	CSR	FSC
	IDI	KER
	PRE	SCA
	SEI	SES
	SGAI	SLD
	SSI	SST
	STC	STI
		TEC
2N5322	△♦RCA	177- 76
	CSR	FSC
	KER	SCA
	SES	SGAI
	SLD	SSI
	SST	STI
		TEC
2N5323	△♦RCA	177- 77
	CSR	FSC
	KER	SCA
	SES	SGAI
	SLD	SSI
	SST	STI
		TEC
2N5324	△MOTA	167-102
	CSR	GPD
	SES	TEC
2N5325	△MOTA	167-103
	CSR	GPD
	SES	TEC
2N5326	△TRW	206- 15
	CSR	GSE
	IDI	KER
	PPC	SCA
	SSI	TEC
2N5327	△TRW	196- 96
	IDI	KER
	PPC	SCA
	SDE	SOD
	SSI	TEC
2N5328	△TRW	211- 69
	CSR	GSE
	IDI	KER
	PPC	SCA
	SSI	TEC
2N5329	△TRW	217- 76
	IDI	KER
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	TEC
2N5330	△TRW	221- 3
	IDI	KER
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5330		
(cont.)	PPC	
	SCA	SDE
	♦SOD	SSI
		TEC
2N5331	△TRW	223- 55
	CSR	IDI
	KER	PPC
	SCA	SDE
	SOD	SSI
		TEC
2N5332	△♦TII	104-102
		280-105
JAN2N5332	none	104- 94
		280-106
2N5333	△♦TII	179- 53
	CSR	HZN
	PPC	SCA
	SOD	SSI
	TEC	TIIB
		TIID
2N5334	△♦MOTA	194-109
	CEI	CSR
	♦FSC	GSE
	IDI	NSC
	NTR	PPC
	SCA	SSI
	STC	TEC
	TRW	UNI
2N5335	△♦MOTA	194-110
	CEI	CSR
	♦FSC	GSE
	IDI	NSC
	NTR	PPC
	SCA	SSI
	STC	TEC
	TRW	UNI
2N5336	△♦MOTA	195- 1
	CEI	CSR
	ESI	♦FSC
	GSE	IDI
	NSC	NTR
	PPC	SCA
	SOD	SSI
	STC	STI
	TEC	TRW
		UNI
2N5337	CEI	195- 2
	CSR	ESI
	♦FSC	GSE
	IDI	♦MOTA
	NSC	NTR
	PPC	SCA
	SCA	SOD
	SSI	STC
	STC	TEC
	TRW	UNI
2N5338	△♦MOTA	195- 3
	CSR	ESI
	♦FSC	GSE
	IDI	NSC
	NTR	PPC
	SCA	SOD
	SSI	STC
	TEC	TRW
		UNI
2N5339	△♦MOTA	195- 4
	CSR	ESI
	♦FSC	GSE
	IDI	NSC
	NTR	PPC
	SCA	SOD
	SSI	STC
	TEC	TRW
		UNI
2N5344	△♦MOTA	180- 87
	STC	TEC
2N5345	△♦MOTA	180- 88
	STC	TEC
2N5346	△♦MOTA	212- 51
	♦FSC	GSE
	IDI	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N5347	△♦MOTA	212- 52
	♦FSC	GSE
	IDI	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N5348	△♦MOTA	212- 53
	♦FSC	GSE
	IDI	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
		UNI
2N5349	△♦MOTA	212- 54
	♦FSC	GSE
	IDI	KER
	SCA	SLD
	SSI	SST
	STC	TEC
	TRW	UNI
2N5354	△♦GESY	103- 19
	CSR	MISI
	NSC	PRE
	SEI	SES
	SLD	♦SPR
	SST	THCF
2N5355	△♦GESY	103- 20
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5355		
(cont.)	CSR	
	MISI	NSC
	PRE	SEI
	SES	SLD
	♦SPR	SST
		THCF
2N5356	△♦GESY	103- 21
	CSR	MISI
	NSC	NTR
	SES	SLD
	♦SPR	SST
		THCF
2N5357	SST	181- 20
	STC	251- 34
2N5358	△♦MOTA	156- 16
	INL	NSC
	SIX	♦TII
	TIIB	TSC
2N5359	△♦MOTA	156- 17
	INL	NSC
	SIX	♦TII
	TIIB	TSC
2N5360	△♦MOTA	156- 18
	INL	NSC
	SIX	♦TII
	TIIB	TSC
2N5361	△♦MOTA	156- 19
	INL	NSC
	SIX	♦TII
	TIIB	TSC
2N5362	△♦MOTA	156- 20
	INL	NSC
	SIX	♦TII
	TIIB	TSC
2N5363	△♦MOTA	156- 21
	INL	NSC
	SIX	♦TII
	TIIB	TSC
2N5364	△♦MOTA	156- 22
	INL	NSC
	SIX	♦TII
	TIIB	TSC
2N5365	△♦GESY	103- 22
	CSR	MISI
	NSC	SPR
		THCF
2N5366	△♦GESY	103- 23
	CSR	MISI
	NSC	SES
	SPR	THCF
2N5367	△♦GESY	103- 24
	CSR	MISI
	SES	SPR
		THCF
2N5368	△♦SPR	133- 93
	CSR	♦GESY
	IDC	ITT
	NASB	SES
		STI
2N5369	△♦SPR	133- 94
	CSR	♦GESY
	IDC	ITT
	NASB	SES
		STI
2N5370	CSR	133- 95
	♦GESY	IDC
	ITT	NASB
	SES	♦SPR
		STI
2N5371	△♦SPR	133- 96
	CSR	♦GESY
	IDC	ITT
	NASB	SES
		STI
2N5372	△♦SPR	103- 97
	CSR	♦GESY
	IDC	ITT
	NASB	SES
		STI
2N5373	△♦SPR	103- 98
	CSR	♦GESY
	IDC	ITT
	NASB	SES
		STI
2N5374	△♦SPR	103- 99
	CSR	♦GESY
	IDC	ITT
	NASB	SES
		STI
2N5375	△♦SPR	103-100
	CSR	♦GESY
	IDC	ITT
	NASB	SES
		STI
2N5376	△♦SPR	134- 31
	CSR	IDC
	ITT	NASB
	SES	STI
2N5377	△♦SPR	134- 32
	CSR	IDC
	ITT	NASB
	SES	STI
2N5378	△♦SPR	104- 9
	CSR	IDC
	ITT	NASB
	SES	STI
2N5379	△♦SPR	104- 10
	CSR	IDC
	ITT	NASB
	SES	STI
2N5380	△♦SPR	133- 97
	CSR	IDC
	SES	STI
		261- 44

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N5381	△♦SPR	134- 33
	CSR	IDC	263- 6
	SES	STI	
2N5382	△♦SPR	104- 11
	CSR	IDC	258- 74
	NASB	SES	
		STI	
2N5383	△♦SPR	104- 47
	CSR	IDC	261- 45
	NASB	SES	
		STI	
2N5384	△♦TII	181- 98
	HZN	KER	
	PPC	SCA	
	SLD	SOD	
	SSI	SST	
	TEC	TIIB	
		TIID	
2N5385	△♦TII	181- 99
	HZN	KER	
	PPC	SCA	
	SLD	SSI	
	SST	TEC	
	TIIB	TIID	
2N5386	△♦TII	183- 74
	KER	PPC	
	SCA	SLD	
	SOD	SSI	
	SST	TEC	
	TIIB	TIID	
2N5387	△♦TII	223- 56
	IDI	KER	
	SCA	SLD	
	SOD	SSI	
	SST	STC	
	TEC	TIIB	
		TIID	
2N5388	△♦TII	223- 57
	IDI	KER	
	PPC	SCA	
	SLD	SOD	
	SSI	SST	
	STC	TEC	
	TIIB	TIID	
2N5389	△♦TII	223- 58
	KER	SLD	
	SOD	SSI	
	SST	STC	
	TEC	TIIB	
		TIID	
2N5390	△♦TII	279- 30
	SSI	TIIB	
		UNI	
2N5391	△♦TSC	156- 23
2N5392	△♦TSC	156- 24
2N5393	△♦TSC	156- 25
2N5394	△♦TSC	156- 26
2N5395	△♦TSC	156- 27
2N5396	△♦TSC	156- 28
2N5397	△♦SIX	156- 29
	INL	NSC	
	♦TII	TIID	
2N5398	△♦SIX	156- 30
	INL	NSC	
	♦TII	TIID	
2N5399	△♦TII	135- 17
			280-107
JAN2N5399	none	135- 18
			280-108
2N5400	△♦MOTA	102- 73
	FSC	NSC	
	NTR	PRE	
	SEI	SST	
		♦TII	
2N5401	△♦MOTA	102- 74
	FSC	MEHK	
	NSC	NTR	
	SST	♦TII	
2N5404	△SOD	177- 54
	CSR	HZN	250- 34
	PPC	SCA	
	SSI	TEC	
2N5405	△SOD	177- 55
	CSR	HZN	250- 35
	KER	PPC	
	SCA	SSI	
		TEC	
2N5406	△SOD	177- 56
	CSR	HZN	250- 36
	KER	PPC	
	SCA	SSI	
		TEC	
2N5407	△SOD	177- 57
	CSR	HZN	250- 37
	KER	PPC	
	SCA	SSI	
		TEC	
2N5408	△SOD	181- 62
	HZN	PPC	250- 38
	SCA	SSI	
		TEC	
2N5409	△SOD	181- 63
	HZN	PPC	250- 39
	SCA	SSI	
		TEC	
2N5410	△SOD	181- 64
	HZN	PPC	250- 40
	SCA	SSI	
2N5411	△SOD	181- 65
	HZN	PPC	250- 41
	SCA	SSI	
		TEC	
2N5412	△SOD	220- 28
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5412		
(cont.)	CSR	252- 64
	GSE	IDI	
	KER	SCA	
	SDE	SSI	
	TEC	TRW	
2N5413	CSR	188-102
	ESI	IDI	261- 62
	SCA	SSI	
2N5414	CSR	188-103
	ESI	IDI	261- 63
	SCA	SSI	
2N5415	△♦RCA	177- 78
	CSR	ESI	
	SCA	SES	
	SSI	STC	
	STI	TEC	
JAN2N5415	none	90- 64
			253- 53
2N5416	△♦RCA	177- 79
	CSR	SCA	
	SES	SSI	
	STC	STI	
		TEC	
JAN2N5416	none	90- 65
			253- 54
2N5418	△♦GESY	135- 48
2N5419	△♦GESY	135- 49
2N5420	△♦GESY	135- 50
2N5421	CSR	190- 32
	KER	♦SES	
	SSI	TII	
		TIIB	
2N5422	CEI	192-109
	CSR	IDI	
	KER	SCA	
	SSI	TII	
		TIIB	
2N5423	KER	200- 42
	♦SES	TII	
		TIIB	
2N5424	KER	202- 1
	♦SES	TII	
		TIIB	
2N5424A	△KER	202- 2
2N5427	△♦MOTA	207- 83
	CSR	GSE	246- 57
	IDI	KER	
	SCA	SDE	
	SOD	SSI	
	SST	STC	
	TEC	TRW	
		UNI	
2N5428	△♦MOTA	207- 84
	CSR	GSE	246- 58
	IDI	KER	
	SCA	SDE	
	SSI	STC	
	TEC	TRW	
		UNI	
2N5429	△♦MOTA	207- 85
	CSR	GSE	246- 59
	IDI	KER	
	SCA	SDE	
	SSI	STC	
	TEC	TRW	
		UNI	
2N5430	△♦MOTA	207- 86
	CSR	GSE	246- 60
	KER	SCA	
	SDE	SOD	
	SSI	STC	
	TEC	TRW	
		UNI	
2N5431	△♦MOTA	277- 4
		SES	
JAN2N5431	MOTA	277- 5
2N5432	△♦SIX	156- 31
	♦INL	MISI	233- 3
	NSC	♦TCY	
	THCF	TIID	
2N5433	△♦SIX	156- 32
	♦INL	MISI	233- 4
	NSC	♦TCY	
	THCF	TIID	
2N5434	△♦SIX	156- 33
	♦INL	MISI	233- 5
	NSC	♦TCY	
	THCF	TIID	
2N5435	△♦MOTA	171- 59
	CSR	GPD	236- 78
2N5436	△♦MOTA	171- 60
	CSR	GPD	236- 79
2N5437	△♦MOTA	171- 61
	CSR	GPD	236- 80
2N5438	△♦MOTA	171- 62
	CSR	GPD	236- 81
2N5439	△♦MOTA	171- 63
	CSR	GPD	236- 82
2N5440	△♦MOTA	171- 64
	CSR	GPD	236- 83
2N5447	△♦TII	103- 84
	♦ALGG	CSR	
	♦GESY	ITT	
	MISI	NPC	
	PIHS	SES	
	SLD	SST	
	STI	THCF	
	TIIC	TIID	
		TIIF	
2N5448	△♦TII	103- 85
	♦ALGG	CSR	
	♦GESY	ITT	
	MISI	NPC	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5448		
(cont.)	PIHS	
	SES	SLD	
	SST	STI	
	THCF	TIIC	
	TIID	TIIF	
2N5449	△♦TII	133- 38
	♦GESY	MISI	
	NPC	PRE	
	SEI	SES	
	SLD	SST	
	STI	THCF	
	TIIC	TIID	
		TIIF	
2N5450	△♦TII	133- 39
	♦GESY	MISI	
	NPC	PRE	
	SEI	SES	
	SLD	SST	
	STI	THCF	
	TIIC	TIID	
		TIIF	
2N5451	△♦TII	133- 40
	♦GESY	MISI	
	NPC	SES	
	SLD	SST	
	STI	THCF	
	TIIC	TIID	
		TIIF	
2N5452	△♦SODI	154- 93
	INL	NSC	270- 97
2N5453	△♦SODI	154- 94
	INL	NSC	270- 98
2N5454	△♦SODI	154- 95
	INL	NSC	270- 99
2N5455	△♦FSC	102- 32
		SODI	265- 45
2N5456	△♦FSC	131- 42
			265- 46
2N5457	△♦MOTA	158-106
	♦INL	NSC	
		TSC	
2N5458	△♦MOTA	158-107
	♦INL	NSC	
		TSC	
2N5459	△♦MOTA	158-108
	♦INL	NSC	
	PRE	SEI	
		TSC	
2N5460	△♦MOTA	151- 83
	♦INL	NSC	
		♦TII	
2N5461	△♦MOTA	151- 84
	♦INL	NSC	
		♦TII	
2N5462	△♦MOTA	151- 85
	♦INL	NSC	
		♦TII	
2N5463	△♦MOTA	151- 86
		♦INL	
2N5464	△♦MOTA	151- 87
		♦INL	
2N5465	△♦MOTA	151- 88
		♦INL	
2N5466	△♦SOD	221- 4
	IDI	SCA	
	SPC	STC	
		TEC	
2N5467	△♦SOD	221- 5
	IDI	SCA	
	SPC	STC	
		TEC	
2N5468	△♦SOD	212-109
	SCA	STC	
		TEC	
2N5469	△♦SOD	212-110
	SCA	STC	
		TEC	
2N5470	△♦RCA	190- 73
		FSC	
JAN2N5470	none	190- 74
			284- 26
2N5471	△♦MOTA	151- 15
2N5472	△♦MOTA	151- 16
2N5473	△♦MOTA	151- 17
2N5474	△♦MOTA	151- 18
		INL	
2N5475	△♦MOTA	151- 19
		INL	
2N5476	△♦MOTA	151- 20
		INL	
2N5477	△♦MOTA	212- 55
	GSE	IDI	246- 61
	SCA	SSI	
	STC	TEC	
	TRW	UNI	
2N5478	△♦MOTA	212- 56
	GSE	IDI	246- 62
	SCA	SSI	
	STC	TEC	
	TRW	UNI	
2N5479	△♦MOTA	212- 57
	GSE	IDI	246- 63
	SCA	SSI	
	STC	TEC	
	TRW	UNI	
2N5480	△♦MOTA	212- 58
	GSE	IDI	246- 64
	SCA	SSI	
	STC	TEC	
	TRW	UNI	
2N5481	△♦TRW	192-110
2N5482	△♦TRW	197-109
2N5483	△♦TRW	202- 18

TYPE No.	MFRS	Pg&Line
2N5484	△♦MOTA	158-109
	FSC	INL	
	NSC	TSC	
2N5485	△♦MOTA	158-110
	FSC	INL	
	NSC	TSC	
2N5486	△♦MOTA	159- 1
	FSC	INL	
	NSC	PRE	
	SEI	TSC	
2N5487	△♦UNI	203-110
	GSE	IDI	249- 68
	KER	SCA	
	SSI	TRW	
2N5487-1	GSE	204- 37
	SCA	SDE	249- 69
	SSI	STC	
	TRW	♦UNI	
2N5487-3	SCA	204- 38
	SSI	♦UNI	249- 70
2N5488	△♦UNI	204- 1
	GSE	IDI	249- 71
	SCA	SSI	
		TRW	
2N5488-1	GSE	204- 39
	SCA	SDE	249- 72
	SSI	STC	
	TRW	♦UNI	
2N5488-3	SCA	204- 40
	SSI	♦UNI	249- 73
2N5489	△STC	230- 18
	KER	PTI	
		TEC	
2N5490	△♦RCA	213- 1
	MISI	NJS	
	PPC	PRE	
	SEI	♦SES	
	♦SOD	♦THCF	
2N5491	△♦RCA	213- 2
	NJS	PPC	
	♦SES	♦SOD	
2N5492	△♦RCA	213- 3
	MISI	NJS	
	PPC	♦SES	
	♦SOD	♦THCF	
2N5493	△♦RCA	213- 4
	NJS	PPC	
	♦SES	♦SOD	
2N5494	△♦RCA	213- 5
	MISI	NJS	
	PPC	PRE	
	SEI	♦SES	
	♦SOD	♦THCF	
2N5495	△♦RCA	213- 6
	KER	NJS	
	PPC	♦SES	
		♦SOD	
2N5496	△♦RCA	213- 7
	MISI	NJS	
	PPC	♦SES	
	♦SOD	♦THCF	
2N5497	△♦RCA	213- 8
	NJS	PPC	
	♦SES	♦SOD	
2N5498	△STC	225- 84
	KER	SSI	
2N5515	△♦SIX	154- 96
	♦INL	NSC	270-100
	TIID	TSC	
2N5516	△♦SIX	154- 97
	♦INL	NSC	270-101
	TIID	TSC	
2N5517	△♦SIX	154- 98
	♦INL	NSC	270-102
	TIID	TSC	
2N5518	△♦SIX	154- 99
	♦INL	NSC	270-103
	TIID	TSC	
2N5519	△♦SIX	154-100
	♦INL	NSC	270-104
	TIID	TSC	
2N5520	△♦SIX	154-101
	♦INL	NSC	270-105
	TIID	TSC	
2N5521	△♦SIX	154-102
	♦INL	NSC	270-106
	TIID	TSC	
2N5522	△♦SIX	154-103
	♦INL	NSC	270-107
	TIID	TSC	
2N5523	△♦SIX	154-104
	♦INL	NSC	270-108
	TIID	TSC	
2N5524	△♦SIX	154-105
	♦INL	NSC	270-109
	TIID	TSC	
2N5525	△♦TII	133- 66
	TIIB	TIIC	
2N5526	△♦TII	133- 67
	TIIB	TIIC	
2N5527	△SOD	193- 1
	HZN	KER	280-109
	PPC	SSI	
2N5528	△SOD	190- 75
	CSR	HZN	280-110
	IDI	KER	
	PPC	SSI	
2N5529	△SOD	190- 76
	CSR	HZN	281- 1
	IDI	KER	
	PPC	SSI	
2N5530	△SOD	190- 77
	CSR	HZN	281- 2
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TYPE No.	MFRS	Pg&Line
2N5530		
(cont.)	IDI	
	KER	PPC	
		SSI	
2N5531	△SOD	193- 2
	HZN	KER	281- 3
	PPC	SSI	
2N5532	△SOD	190- 78
	CSR	HZN	281- 4
	IDI	KER	
	PPC	SSI	
2N5533	△SOD	190- 79
	CSR	HZN	281- 5
	IDI	KER	
	PPC	SSI	
2N5534	△SOD	190- 80
	CSR	HZN	281- 6
	IDI	KER	
	PPC	SSI	
2N5535	△SOD	193- 3
	CSR	HZN	281- 7
	KER	PPC	
		SSI	
2N5536	△SOD	193- 4
	CSR	HZN	281- 8
	KER	PPC	
		SSI	
2N5537	△SOD	193- 5
	CSR	HZN	281- 9
	IDI	KER	
	PPC	SDE	
		SSI	
2N5538	△SOD	193- 6
	CSR	HZN	281- 10
	IDI	KER	
	PPC	SDE	
		SSI	
2N5539	△SOD	223- 59
	KER	PPC	245- 18
	SCA	SSI	
	STC	TEC	
		TRW	
2N5540	△SOD	215- 16
	KER	SSI	245- 85
	STC	TEC	
		TRW	
2N5541	△SOD	189- 58
	CSR	KER	245- 19
	PPC	SSI	
	STC	TEC	
		TRW	
2N5542	△SOD	215- 17
	CSR	IDI	245- 20
	KER	PPC	
	SSI	STC	
	TEC	TRW	
2N5543	SLD	161- 99
	TEC	TIID	
		TSC	
2N5544	SLD	161-100
	TEC	TIID	
		TSC	
2N5545	△♦TII	154-106
	INL	NSC	270-110
	♦SIX	SLD	
	TIIB	TIID	
		TSC	
JAN2N5545	none	154-107
			271- 1
2N5546	△♦TII	154-108
	INL	NSC	271- 2
	♦SIX	SLD	
	TIIB	TIID	
		TSC	
JAN2N5546	none	154-109
			271- 3
2N5547	△♦TII	154-110
	INL	NSC	271- 4
	♦SIX	SLD	
	TIIB	TIID	
		TSC	
JAN2N5547	none	155- 1
			271- 5
2N5548	SLD	152- 8
		TIID	
2N5549	△♦TII	160- 37
	INL	SLD	
	TIIB	TIID	
2N5550	△♦MOTA	131- 76
	FSC	NSC	
	NTR	SST	
	STI	♦TII	
		TIIB	
2N5551	△♦MOTA	131- 77
	MEHK	NSC	
	NTR	SST	
	STI	♦TII	
		TIIB	
2N5552	△♦UNI	204- 2
	GSE	HZN	246- 65
	PPC	SCA	
	SLD	SSI	
	SST	TRW	
2N5552-4	SCA	204- 41
	SSI	UNI	245-109
2N5555	△♦MOTA	159- 2
	GPD	♦INL	233- 26
	NSC	SST	
		TSC	
2N5556	△♦MOTA	156- 34
	INL	NSC	
	SIX	TSC	
2N5557	△♦MOTA	156- 35
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N5557		
(cont.)	INL	
	NSC	SIX
		TSC
2N5558	Δ♦MOTA	156 - 36
	INL	NSC
	SIX	TSC
2N5559	ΔSOD	223 - 60
	IDI	SSI 239 - 16
	STC	TEC
2N5560	IDI	227 - 94
	SCA	SSI 250 - 67
	STC	TEC
		TRW
2N5561	ΔSODI	155 - 2
	NSC	TSC 271 - 6
2N5562	ΔSODI	155 - 3
	NSC	TSC 271 - 7
2N5563	ΔSODI	155 - 4
	NSC	TSC 271 - 8
2N5564	ΔSODI	159 - 36
	INL	NSC 271 - 9
	♦SIX	TSC
2N5565	ΔSODI	159 - 37
	INL	NSC 271 - 10
	♦SIX	TSC
2N5566	ΔSODI	159 - 38
	INL	NSC 271 - 11
	♦SIX	TSC
2N5575	Δ♦RCA	230 - 19
		236 -103
2N5578	Δ♦RCA	230 - 20
		236 - 70
2N5581	Δ♦MOTA	189 - 96
	CSR	NTR 261 - 1
	SSI	TEC
JAN2N5581	MOTA	139 - 28
		261 - 46
2N5582	Δ♦MOTA	189 - 97
	CSR	NTR 262 - 88
	SSI	TEC
JAN2N5582	MOTA	139 - 29
		261 - 47
2N5583	Δ♦MOTA	176 - 65
2N5584	ΔTRW	223 - 61
	IDI	KER 253 - 19
	SCA	SOD
		TEC
2N5587	ΔSTC	230 - 21
		SOD
2N5588	ΔSTC	230 - 22
		SOD
2N5589	Δ♦MOTA	201 - 20
	KER	♦SSS
		TADI
2N5590	Δ♦MOTA	205 - 63
	KER	♦SSS
	TADI	TIIB
2N5591	Δ♦MOTA	213 - 9
	KER	♦SES
	♦SSS	TADI
		TIIB
2N5592	ΔSODI	156 - 37
2N5593	ΔSODI	156 - 38
2N5594	ΔSODI	156 - 39
	MOTA	
2N5595	Δ♦TRW	202 - 32
2N5596	Δ♦TRW	207 - 57
2N5597	CSR	178 - 98
	SCA	SOD
	SSI	TEC
2N5598	CSR	202 - 3
	GSE	KER
	SCA	SDE
	SOD	SSI
		TEC
2N5599	CSR	178 - 99
	SCA	SOD
	SSI	TEC
2N5600	CSR	202 - 4
	IDI	KER
	SCA	SDE
	SOD	SSI
	STC	TEC
		TRW
2N5601	CSR	178 -100
	KER	SCA
	SOD	SSI
		TEC
2N5602	IDI	202 - 5
	KER	SCA
	SDE	SOD
	SSI	STC
	TEC	TRW
2N5603	CSR	178 -101
	KER	SCA
	SOD	SSI
		TEC
2N5604	CSR	202 - 6
	IDI	KER
	SCA	SDE
	SOD	SSI
	STC	TEC
		TRW
2N5605	CSR	179 - 49
	SCA	SOD
	SSI	TEC
2N5606	CSR	203 - 95
	IDI	KER
	SCA	SDE
	SOD	SSI
	TEC	TRW
2N5607	CSR	179 - 50
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5607		
(cont.)	SCA	
	SOD	SSI
		TEC
2N5608	CSR	203 - 96
	IDI	KER
	SCA	SDE
	SOD	SSI
	STC	TEC
		TRW
2N5609	CSR	179 - 51
	SCA	SOD
	SSI	TEC
2N5610	CSR	203 - 97
	IDI	KER
	SCA	SDE
	SOD	SSI
	TEC	TRW
2N5611	CSR	179 - 52
	SCA	SOD
	SSI	TEC
2N5612	CSR	203 - 98
	IDI	KER
	SCA	SDE
	SOD	SSI
	STC	TEC
		TRW
2N5613	CSR	182 - 64
	HZN	KER
	PPC	SCA
	SOD	SSI
		TEC
2N5614	IDI	211 - 21
	KER	SCA
	SDE	SOD
	SSI	TEC
		TRW
2N5615	HZN	182 - 65
	KER	PPC
	SCA	SOD
	SSI	TEC
2N5616	CEI	211 - 22
	IDI	KER
	SCA	SDE
	SOD	SSI
	STC	TEC
		TRW
2N5617	HZN	182 - 66
	KER	PPC
	SCA	SOD
	SSI	TEC
2N5618	CEI	211 - 23
	IDI	KER
	SCA	SDE
	SOD	SSI
	TEC	TRW
2N5619	HZN	182 - 67
	KER	PPC
	SCA	SOD
	SSI	TEC
2N5620	CEI	211 - 24
	IDI	KER
	SCA	SDE
	SOD	SSI
	STC	TEC
		TRW
2N5621	CSR	184 - 67
	HZN	KER
	PPC	SCA
	SOD	TEC
2N5622	CSR	220 - 1
	GSE	IDI
	KER	SCA
	SDE	SOD
	STC	TEC
		TRW
2N5623	CSR	184 - 68
	HZN	KER
	PPC	SCA
	SOD	TEC
2N5624	CSR	220 - 2
	GSE	IDI
	KER	SCA
	SDE	SOD
	STC	TEC
		TRW
2N5625	CSR	184 - 69
	HZN	KER
	PPC	SCA
	SOD	TEC
2N5626	CSR	220 - 3
	GSE	IDI
	KER	SCA
	SDE	SOD
	SSI	STC
	TEC	TRW
2N5627	CSR	184 - 70
	HZN	KER
	PPC	SCA
	SOD	SSI
		TEC
2N5628	CSR	220 - 4
	GSE	IDI
	KER	SCA
	SDE	SOD
	SSI	STC
	TEC	TRW
2N5629	Δ♦MOTA	225 - 85
	CSR	IDI
	KER	SCA
	SDE	SEN
	SLD	SOD
	SPC	SSI
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5629		
(cont.)	SST	
	STC	TEC
		TRW
2N5630	Δ♦MOTA	225 - 86
	CSR	IDI
	KER	PPC
	SDE	SEN
	SES	SLD
	SOD	SPC
	SSI	SST
	STC	TEC
		TRW
2N5631	Δ♦MOTA	225 - 87
	CSR	IDI
	KER	PPC
	SDE	SEN
	SES	SLD
	SOD	SSI
	SST	STC
		TEC
2N5632	Δ♦MOTA	222 -109
	CSR	IDI
	PPC	SEN
	SES	SLD
	SOD	SPC
	SSI	SST
	STC	TEC
		TRW
2N5633	Δ♦MOTA	222 -110
	CSR	IDI
	KER	PPC
	SEN	SES
	SLD	SOD
	SPC	SSI
	SST	STC
	TEC	TRW
2N5634	Δ♦MOTA	223 - 1
	CSR	IDI
	PPC	SEN
	SES	SLD
	SOD	SSI
	SST	STC
		TEC
2N5635	♦MOTA	214 - 42
	♦SSS	TADI
2N5636	♦MOTA	223 - 21
	♦SSS	TADI
2N5637	♦MOTA	205 - 64
	♦SSS	TADI
2N5638	Δ♦MOTA	159 - 3
	INL	NSC 233 - 27
		TSC
2N5639	Δ♦MOTA	159 - 4
	INL	NSC 233 - 52
		TSC
2N5640	Δ♦MOTA	159 - 5
	INL	NSC 233 - 63
		TSC
2N5641	Δ♦MOTA	223 - 22
	KER	♦SES
	♦SSS	TADI
2N5642	Δ♦MOTA	205 - 65
	KER	♦SES
	♦SSS	TADI
		TIIB
2N5643	Δ♦MOTA	212 - 43
	KER	♦SES
	♦SSS	TADI
		TIIB
2N5644	Δ♦MOTA	190 - 81
	KER	SOD
		TIIB
2N5645	Δ♦MOTA	200 - 43
	KER	TIIB
2N5646	Δ♦MOTA	205 - 66
		KER
2N5647	Δ♦SIX	156 - 40
	INL	TSC
2N5648	Δ♦SIX	156 - 41
	INL	TSC
2N5649	Δ♦SIX	156 - 42
	INL	TSC
2N5650	ΔNECJ	113 - 78
	CEI	
2N5651	ΔNECJ	113 - 79
	CEI	KMC
2N5652	ΔNECJ	113 - 80
	CEI	KMC
2N5653	Δ♦MOTA	159 - 6
	♦INL	NSC 233 - 28
		TSC
2N5654	Δ♦MOTA	159 - 7
	♦INL	NSC 233 - 53
		TSC
2N5655	Δ♦MOTA	204 - 43
2N5656	Δ♦MOTA	204 - 44
2N5657	Δ♦MOTA	204 - 45
2N5658	ΔUNI	210 - 15
	CSR	GSE 247 - 30
	IDI	SCA
	SSI	STC
		TRW
2N5659	ΔUNI	210 - 16
	GSE	HZN 247 - 31
	IDI	KER
	PPC	SCA
	SLD	SSI
	SST	STC
	TEC	TRW
2N5660	Δ♦UNI	206 - 16
	IDI	KER 245 - 1
	SCA	SOD
	STC	TEC

TYPE No.	MFRS	Pg&Line
JAN2N5660	UNI	189 - 98
		253 - 9
2N5661	Δ♦UNI	206 - 17
	IDI	KER 245 - 2
	SCA	SOD
	STC	TEC
JAN2N5661	UNI	189 - 99
		253 - 10
2N5662	Δ♦UNI	204 - 3
	CSR	IDI 245 - 3
	KER	SCA
	SOD	STI
		TEC
JAN2N5662	UNI	189 - 52
		253 - 11
2N5663	Δ♦UNI	204 - 4
	CSR	IDI 245 - 4
	KER	SCA
	SOD	TEC
JAN2N5663	UNI	189 - 53
		253 - 12
2N5664	Δ♦UNI	210 - 17
	IDI	KER 245 - 5
	SCA	SOD
	STC	TEC
JAN2N5664	UNI	190 - 22
		253 - 13
2N5665	Δ♦UNI	210 - 18
	IDI	KER 245 - 6
	SCA	SOD
	STC	TEC
JAN2N5665	UNI	190 - 23
		253 - 14
2N5666	Δ♦UNI	204 - 5
	CSR	IDI 245 - 7
	KER	SCA
		TEC
JAN2N5666	UNI	189 - 54
		253 - 15
2N5667	Δ♦UNI	204 - 6
	CSR	IDI 245 - 8
	KER	SCA
		STI
JAN2N5667	UNI	189 - 55
		253 - 16
2N5668	Δ♦MOTA	159 - 8
	INL	NSC
		TSC
2N5669	Δ♦MOTA	159 - 9
	INL	NSC
		TSC
2N5670	Δ♦MOTA	159 - 10
	INL	NSC
		TSC
2N5671	Δ♦RCA	221 - 6
	ETIF	KER 252 - 5
	MISI	PPC
	SCA	SDE
	SOD	SSI
	STC	TEC
	THCF	♦TII
	TIIB	TRW
JAN2N5671	none	221 - 7
		260 - 51
2N5672	Δ♦RCA	221 - 8
	ETIF	KER 252 - 6
	MISI	PPC
	SCA	SDE
	SOD	SSI
	STC	TEC
	THCF	♦TII
	TIIB	TRW
JAN2N5672	none	221 - 9
		260 - 52
2N5675	CSR	177 - 2
	PPC	SSI
		TEC
2N5676	CSR	179 - 55
	SSI	STC
		TEC
2N5677	ΔSOD	183 - 75
	PPC	SSI 245 - 21
		TEC
2N5678	ΔSOD	185 - 26
	SSI	TEC 245 - 22
2N5679	Δ♦MOTA	175 - 28
	CSR	ESI
	FSC	KER
	SCA	SES
	SSI	STI
		TEC
2N5680	Δ♦MOTA	175 - 29
	CSR	ESI
	♦FSC	SES
	STI	TEC
2N5681	Δ♦MOTA	188 - 74
	CSR	FSC
	GSE	IDI
	SCA	SDE
	SES	SOD
	STC	STI
	TEC	TRW
2N5682	Δ♦MOTA	188 - 75
	CSR	FSC
	GSE	IDI
	SCA	SDE
	SES	SOD
	STC	STI
		TEC
2N5683	Δ♦MOTA	185 - 92
	PPC	SES
	STC	STI
	TEC	♦TII
		TIIB

TYPE No.	MFRS	Pg&Line
JAN2N5683	none	185 - 93
		245 - 86
2N5684	Δ♦MOTA	185 - 94
	KER	PPC
	PRE	SEI
	SES	STC
	TEC	♦TII
		TIIB
JAN2N5684	none	185 - 95
		245 - 87
2N5685	Δ♦MOTA	229 - 39
	KER	PPC
	SES	STC
	TEC	♦TII
		TIIB
JAN2N5685	MOTA	229 - 40
		245 - 88
2N5686	Δ♦MOTA	229 - 41
	KER	PPC
	PRE	SEI
	SES	STC
	TEC	♦TII
		TIIB
JAN2N5686	MOTA	229 - 42
		245 - 89
2N5687	ΔTRW	193 - 7
	CSR	TEC
	TII	TIIB
2N5688	ΔTRW	197 - 86
	TII	TIIB
2N5689	ΔTRW	203 - 99
	TII	TIIB
2N5690	ΔTRW	209 - 88
	TII	TIIB
2N5691	ΔTRW	215 - 18
	TII	TIIB
2N5692	Δ♦MOTA	171 - 65
		GPD 237 - 50
2N5693	Δ♦MOTA	171 - 66
		GPD 237 - 51
2N5694	Δ♦MOTA	171 - 67
		GPD 237 - 52
2N5695	Δ♦MOTA	171 - 68
		GPD 237 - 53
2N5696	Δ♦MOTA	171 - 69
		GPD 237 - 54
2N5697	ΔTRW	190 - 82
	CEI	TII
		TIIB
2N5698	ΔTRW	193 - 8
	TII	TIIB
2N5699	ΔTRW	197 -110
	TII	TIIB
2N5700	ΔTRW	206 - 18
2N5701	ΔTRW	206 - 19
2N5702	ΔTRW	148 - 51
	TII	TIIB
2N5703	ΔTRW	198 - 1
	TII	TIIB
2N5704	ΔTRW	203 -100
	TII	TIIB
2N5705	ΔTRW	208 - 45
	TII	TIIB
2N5706	ΔTRW	214 - 68
		TIIB
2N5707	ΔTRW	213 - 10
	TII	TIIB
2N5708	ΔTRW	216 - 68
	TII	TIIB
2N5709	ΔTRW	221 - 10
	KER	TII
		TIIB
2N5710	ΔTRW	190 - 83
	CEI	TIIB
2N5711	ΔTRW	216 - 69
	TII	TIIB
2N5712	ΔTRW	203 -101
	TII	TIIB
2N5713	ΔTRW	209 - 23
	TII	TIIB
2N5714	ΔTRW	213 - 11
2N5715	Δ♦TRW	194 - 57
2N5716	Δ♦MOTA	153 - 97
	NSC	TSC
2N5717	Δ♦MOTA	153 - 98
	NSC	TSC
2N5718	Δ♦MOTA	153 - 99
	NSC	TSC
2N5729	CSR	199 - 8
	GSE	HZN 247 - 36
	IDI	KER
	PPC	SCA
	SLD	SOD
	SSI	SST
	STC	TEC
		TRW
2N5730	CSR	210 - 19
	GSE	HZN 247 - 37
	IDI	PPC
	SCA	SLD
	SOD	SSI
	SST	STC
	TEC	TRW
2N5731	CSR	215 - 19
	GSE	HZN 247 - 78
	IDI	KER
	PPC	SCA
	SLD	SOD
	SSI	SST
	STC	TEC
		TRW
2N5732	CSR	215 - 20
	♦GSE	HZN 247 - 79
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1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N5732		
(cont.)	IDI	
	KER	PPC
	SCA	SLD
	SOD	SSI
	SST	STC
	TEC	TRW
2N5733	CSR	223- 62
	GSE	HZN 248- 96
	IDI	KER
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STC
		TEC
2N5734	CSR	223- 63
	GSE	HZN 248- 97
	IDI	KER
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STC
		TEC
2N5737	ΔSOD	183- 76
	CSR	SCA
	SSI	STC
		TEC
2N5738	ΔSOD	183- 77
	CSR	SCA
	SSI	STC
		TEC
2N5739	ΔSOD	180- 18
	CSR	SCA
	SSI	STC
		TEC
2N5740	ΔSOD	180- 19
	CSR	KER
	SCA	SSI
	STC	TEC
2N5741	ΔSOD	184- 53
	CSR	SCA
	SSI	STC
		TEC
2N5742	ΔSOD	184- 54
	CSR	KER
	SCA	SSI
	STC	TEC
2N5743	ΔSOD	181- 41
	CSR	SCA
		TEC
2N5744	ΔSOD	181- 42
	CSR	KER
		TEC
2N5745	Δ♦MOTA	185- 53
	SES	STC 239- 90
		TEC
JAN2N5745	MOTA	185- 54
		250- 68
2N5758	Δ♦MOTA	223- 2
	ETIF	PPC
	SSI	STC
	TEC	♦TII
		TIIB
2N5759	Δ♦MOTA	223- 3
	ETIF	PPC
	SSI	STC
	TEC	♦TII
		TIIB
2N5760	Δ♦MOTA	223- 4
	ETIF	PPC
	SSI	STC
	TEC	♦TII
		TIIB
2N5761	ΔNECJ	123- 71
2N5762	ΔNECJ	129- 92
2N5763	Δ♦MOTA	106- 98
		281- 11
2N5764	ΔTRW	198- 2
2N5765	ΔTRW	201- 98
2N5766	ΔTRW	193- 9
2N5767	ΔTRW	198- 3
2N5768	ΔTRW	202- 28
2N5769	Δ♦FSC	143- 17
	NSC	265- 83
2N5770	Δ♦FSC	143- 83
	NSC	NTR
2N5771	Δ♦FSC	109- 87
	NSC	267- 6
2N5772	Δ♦FSC	143- 15
	NSC	263-104
2N5773	ΔTRW	209- 68
	TII	TIIB
2N5774	ΔTRW	201- 99
	TII	TIIB
2N5775	ΔTRW	207- 97
2N5776	ΔTRW	213- 12
2N5777	Δ♦GESY	274- 9
		♦MOTA
2N5778	Δ♦GESY	274- 10
		♦MOTA
2N5779	Δ♦GESY	274- 11
		♦MOTA
2N5780	Δ♦GESY	274- 12
		♦MOTA
2N5781	Δ♦RCA	177-100
	AMC	CSR
	SCA	SES
	SSI	TEC
2N5782	Δ♦RCA	177-101
	AMC	CSR
	SCA	SES
	SSI	TEC
2N5783	Δ♦RCA	177-102
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TYPE No.	MFRS	Pg&Line
2N5783		
(cont.)	AMC	
	CSR	SCA
	SES	SSI
		TEC
2N5784	Δ♦RCA	198- 4
	AMC	CSR
	IDI	SCA
	SES	SSI
		TEC
2N5785	Δ♦RCA	198- 5
	AMC	CSR
	IDI	SCA
	SES	SSI
		STC
		TEC
2N5786	Δ♦RCA	198- 6
	AMC	CSR
	IDI	SCA
	SES	SSI
		TEC
2N5793	Δ♦MOTA	138-103
		RTN 261- 22
		279- 31
JAN2N5793	none	259- 61
		279- 32
2N5794	Δ♦MOTA	138-104
		RTN 261- 23
		279- 33
JAN2N5794	none	259- 62
		279- 34
2N5795	Δ♦MOTA	108- 24
		RTN 258- 75
		279- 35
JAN2N5795	none	259- 72
		279- 36
2N5796	Δ♦MOTA	108- 25
		RTN 258- 76
		279- 37
JAN2N5796	none	259- 73
		279- 38
2N5797	Δ♦MOTA	150- 48
2N5798	Δ♦MOTA	150- 49
2N5799	Δ♦MOTA	150- 50
2N5800	Δ♦MOTA	150- 51
2N5804	Δ♦RCA	217- 39
	SES	STC 244- 56
	TEC	TRW
2N5805	Δ♦RCA	217- 40
	KER	SES 244- 57
	STC	TEC
2N5810	Δ♦GESY	137- 37
	CSR	♦SPR
		STI
2N5811	Δ♦GESY	107- 56
	CSR	PRE
	SEI	♦SPR
		STI
2N5812	Δ♦GESY	137- 38
	CSR	♦SPR
		STI
2N5813	Δ♦GESY	107- 57
	CSR	♦SPR
		STI
2N5814	Δ♦GESY	137- 39
	CSR	♦SPR
		STI
2N5815	Δ♦GESY	107- 58
	CSR	♦SPR
		STI
2N5816	Δ♦GESY	137- 40
	CSR	♦SPR
		STI
2N5817	Δ♦GESY	107- 59
	CSR	♦SPR
		STI
2N5818	Δ♦GESY	137- 41
	CSR	♦SPR
		STI
2N5819	Δ♦GESY	107- 60
	CSR	♦SPR
		STI
2N5820	Δ♦GESY	137- 42
		STI
2N5821	Δ♦GESY	107- 61
		STI
♦2N5822	Δ♦GESY	137- 43
		STI
2N5823	Δ♦GESY	107- 62
		STI
2N5824	Δ♦GESY	132- 87
	CSR	♦SPR
		STI
2N5825	Δ♦GESY	132- 88
	CSR	♦SPR
		STI
2N5826	Δ♦GESY	132- 89
	CSR	♦SPR
		STI
2N5827	Δ♦GESY	132- 90
		STI
2N5827A	ΔGESY	132- 91
		STI
2N5828	Δ♦GESY	132- 92
		STI
2N5828A	ΔGESY	132- 93
		STI
2N5829	ΔMOTA	96- 57
2N5830	Δ♦FSC	142- 95
		STI
2N5831	Δ♦FSC	142- 96
		STI
2N5832	Δ♦FSC	142- 97
	NSC	STI

TYPE No.	MFRS	Pg&Line
2N5833	Δ♦FSC	142- 98
	PRE	SEI
		STI
2N5834		TII 176- 66
2N5835	Δ♦MOTA	121- 52
		STI
2N5836	Δ♦MOTA	188-104
	TII	TIIB
2N5837	Δ♦MOTA	188-105
2N5838	Δ♦RCA	216- 87
	IDI	MOTA 242- 29
	SCA	SES
	SPC	SSI
	STC	TEC
JAN2N5838	none	216- 76
		245- 90
2N5839	Δ♦RCA	216- 88
	IDI	MOTA 242- 30
	SCA	SES
	SPC	SSI
	STC	TEC
JAN2N5839	none	216- 77
		245- 91
2N5840	Δ♦RCA	216- 89
	IDI	MOTA 242- 31
	SCA	SES
	SPC	SSI
	STC	TEC
JAN2N5840	none	216- 78
		245- 92
2N5841	Δ♦MOTA	132- 74
2N5842	Δ♦MOTA	132- 73
		SCA
2N5845	Δ♦MOTA	138-105
	CSR	FSC 258- 59
		NTR
2N5845A	Δ♦MOTA	143- 13
		CSR 261- 2
2N5846	ΔMOTA	198- 7
2N5847	Δ♦MOTA	202- 7
		TIIB
2N5848	Δ♦MOTA	209- 69
2N5849	Δ♦MOTA	216- 79
	KER	TIIB
2N5851	PRE	139- 75
	SCA	SEI
		SSI
2N5852		SCA 139- 84
		SSI
2N5853		ΔSOD 184- 58
		SSI
2N5854		ΔSOD 184- 59
	GSE	SSI
2N5855		ΔFSC 110- 13
	CSR	RTN
2N5856		ΔFSC 144- 6
	CSR	RTN
2N5857		ΔFSC 110- 14
	CSR	RTN
2N5858		ΔFSC 144- 7
	CSR	RTN
2N5859	Δ♦MOTA	193- 10
	CSR	RTN 261- 24
		SSI
2N5860		CSR 193- 11
	SCA	SSI 260- 95
2N5861	Δ♦MOTA	193- 12
	CSR	RTN 258- 32
		SCA
2N5862	Δ♦MOTA	216- 59
		TIIB
2N5864	Δ♦MOTA	175- 89
	CSR	SCA
	SES	SSI
		TEC
2N5865	ΔMOTA	177- 3
	CSR	SES 254- 47
		SSI
2N5867	Δ♦MOTA	183- 78
	CSR	ETIF 241- 71
	PPC	SES
	SSI	STC
	TEC	♦TII
		TIIB
2N5868	Δ♦MOTA	183- 79
	CSR	ETIF 241- 72
	PPC	SES
	SSI	STC
	TEC	♦TII
		TIIB
2N5869	Δ♦MOTA	215- 21
	CSR	ETIF 241- 73
	KER	PPC
	SES	SSI
	STC	TEC
	♦TII	TIIB
2N5870	Δ♦MOTA	215- 22
	CSR	ETIF 241- 74
	PPC	SES
	SSI	STC
	TEC	♦TII
		TIIB
2N5871	Δ♦MOTA	184- 56
	CSR	ETIF 241- 75
	PPC	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
2N5872	Δ♦MOTA	184- 57
	CSR	ETIF 241- 76
	SES	SOD
	SSI	STC
	TEC	♦TII
		TIIB

TYPE No.	MFRS	Pg&Line
2N5873	Δ♦MOTA	217- 93
	CSR	ETIF 241- 77
	FSC	PPC
	SES	SSI
	STC	TEC
	♦TII	TIIB
2N5874	Δ♦MOTA	217- 94
	CSR	ETIF 241- 78
	FSC	KER
	PPC	SES
	SSI	STC
	TEC	♦TII
		TIIB
2N5875	Δ♦MOTA	185- 4
	CSR	ETIF 241- 79
	PPC	SES
	SSI	STC
	TEC	♦TII
		TIIB
2N5876	Δ♦MOTA	185- 5
	CSR	ETIF 241- 80
	PPC	SES
	SSI	STC
	TEC	♦TII
		TIIB
2N5877	Δ♦MOTA	223- 5
	CSR	ETIF 241- 81
	FSC	PPC
	SES	SLD
	SSI	SST
	STC	TEC
	♦TII	TIIB
2N5878	Δ♦MOTA	223- 6
	CSR	ETIF 241- 82
	FSC	KER
	PPC	SES
	SLD	SSI
	SST	STC
	TEC	♦TII
		TIIB
2N5879	Δ♦MOTA	185- 21
	CSR	PPC 241- 83
	SES	SSI
	STC	TEC
	♦TII	TIIB
2N5880	Δ♦MOTA	185- 22
	CSR	PPC 241- 84
	SES	SSI
	STC	TEC
	♦TII	TIIB
2N5881	Δ♦MOTA	223- 32
	CSR	ETIF 241- 85
	FSC	IDI
	PPC	SES
	SSI	STC
	TEC	♦TII
		TIIB
2N5882	Δ♦MOTA	223- 33
	CSR	FSC 241- 86
	IDI	PPC
	SES	STC
	TEC	♦TII
		TIIB
2N5883	Δ♦MOTA	185- 55
	CSR	PPC 241- 87
	SES	SOD
	SSI	STC
	TEC	♦TII
		TIIB
2N5884	Δ♦MOTA	185- 56
	CSR	KER 241- 88
	PPC	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
2N5885	Δ♦MOTA	225- 88
	CSR	ETIF 241- 89
	FSC	IDI
	PPC	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
2N5886	Δ♦MOTA	225- 89
	CSR	ETIF 241- 90
	FSC	IDI
	PPC	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
2N5887	Δ♦MOTA	167-104
	GPD	STC
2N5888	Δ♦MOTA	167-105
	GPD	STC
2N5889	Δ♦MOTA	167-106
	GPD	STC
2N5890	Δ♦MOTA	167-107
	GPD	STC
2N5891	Δ♦MOTA	167-108
	GPD	STC
2N5892	Δ♦MOTA	167-109
	GPD	STC
2N5893	Δ♦MOTA	167-110
	GPD	STC
2N5894	Δ♦MOTA	168- 1
	GPD	STC
2N5895	Δ♦MOTA	168- 2
	GPD	STC
2N5896	Δ♦MOTA	168- 3
	GPD	STC
2N5897	Δ♦MOTA	168- 4
	GPD	STC
2N5898	Δ♦MOTA	168- 5
	GPD	STC

TYPE No.	MFRS	Pg&Line
2N5899	Δ♦MOTA	168- 6
	GPD	STC
2N5900	Δ♦MOTA	168- 7
	GPD	STC
2N5901	Δ♦MOTA	168- 8
	GPD	STC
2N5902	Δ♦SIX	161- 43
	♦INL	TSC 271- 12
2N5903	Δ♦SIX	161- 44
	♦INL	TSC 271- 13
2N5904	Δ♦SIX	161- 45
	♦INL	TSC 271- 14
2N5905	Δ♦SIX	161- 46
	♦INL	TSC 271- 15
2N5906	Δ♦SIX	161- 47
	♦INL	TSC 271- 16
2N5907	Δ♦SIX	161- 48
	♦INL	TSC 271- 17
2N5908	Δ♦SIX	161- 49
	♦INL	TSC 271- 18
2N5909	Δ♦SIX	161- 50
	♦INL	TSC 271- 19
2N5910	Δ♦FSC	102- 28
	CSR	IDI 266- 80
	NASB	NSC
2N5911	Δ♦SIX	161- 51
	INL	NSC 271- 20
		TSC
2N5912	Δ♦SIX	161- 52
	INL	NSC 271- 21
		TSC
2N5913	Δ♦RCA	193- 13
	CSR	KER
	SSS	TII
		TIIB
2N5914	Δ♦RCA	196- 63
2N5915	Δ♦RCA	201- 15
2N5916	Δ♦RCA	195- 33
2N5917	Δ♦RCA	195- 34
2N5918	Δ♦RCA	200- 66
JAN2N5918	RCA	200- 67
2N5919A	Δ♦RCA	206- 20
JAN2N5919A	RCA	206- 21
2N5920	Δ♦RCA	193- 14
2N5921	Δ♦RCA	200-103
		FSC
2N5923		KER 195- 11
2N5926		ΔPTI 230- 23
	SOD	STC 235- 95
		TEC
JAN2N5926	PTI	230- 24
		236- 19
2N5927	Δ♦PTI	230- 25
	STC	TEC 235- 96
JAN2N5927	PTI	230- 26
		236- 20
2N5928	ΔPTI	230- 27
	STC	TEC 236- 21
2N5929	SCA	223- 64
	SES	STC 248- 39
		TEC
2N5930	KER	223- 65
	SCA	SES 248- 40
	STC	TEC
2N5931	KER	223- 66
	SCA	SES 248- 41
	STC	TEC
2N5932	SCA	223- 67
	SES	STC 248- 82
		TEC
2N5933	SCA	223- 68
	SES	STC 248- 83
		TEC
2N5934	SCA	223- 69
	SES	STC 248- 84
		TEC
2N5935	SCA	223- 70
	SES	STC 248- 98
		TEC
2N5936	SCA	223- 71
	SES	STC 248- 99
		TEC
2N5937	SCA	223- 72
	SES	STC 246- 40
		TEC
2N5938	Δ♦TII	206- 22
	PPC	TIIB 281- 12
2N5939	Δ♦TII	213- 13
	PPC	TIIB 281- 13
		TIID
2N5940	Δ♦TII	213- 14
	PPC	TIIB 281- 14
		TIID
2N5941	ΔTII	214- 67
	KER	♦MOTA
		TIIB
2N5942	ΔTII	221- 11
	KER	♦MOTA
		TIIB
2N5943	Δ♦MOTA	190- 84
		KER
2N5944	Δ♦MOTA	193- 15
	KER	SSS
2N5945	Δ♦MOTA	201- 16
	KER	SSS
2N5946	Δ♦MOTA	207- 42
	KER	SSS
2N5947	Δ♦MOTA	201- 27
2N5949	Δ♦TII	160- 38
	NSC	TIIC
2N5950	Δ♦TII	160- 39
	NSC	TIIC
2N5951	Δ♦TII	160- 40
	NSC	TIIC

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TYPE No.	MFRS	Pg&Line
2N5952	Δ♦TII	160-41
	NSC	
2N5953	Δ♦TII	160-42
NSC	TIIC	
2N5954	Δ♦RCA	180-102
CSR	MOTA	
STC	TEC	
2N5955	Δ♦RCA	180-103
CSR	KER	
MOTA	STC	
	TEC	
2N5956	Δ♦RCA	180-104
CSR	KER	
MOTA	STC	
	TEC	
2N5957	ΔTEC	223-73
CSR	IDI	243-99
SCA	SOD	
SSI	STC	
JAN2N5957	TEC	223-74
		253-75
2N5958	ΔTEC	185-27
KER	SOD	243-100
	SSI	
JAN2N5958	TEC	185-28
		253-76
2N5959	ΔTEC	223-75
CSR	IDI	243-101
SCA	SOD	
SSI	STC	
JAN2N5959	TEC	223-76
		253-77
2N5960	ΔTEC	185-29
KER	SOD	243-102
	SSI	
JAN2N5960	TEC	185-30
		253-78
2N5961	ΔFSC	142-99
	CSR	
2N5962	ΔFSC	142-100
	CSR	
2N5963	ΔFSC	143-6
2N5964	Δ♦FSC	143-52
2N5965	Δ♦FSC	143-53
	STI	
2N5966	ΔTEC	226-17
KER	SSI	243-103
	STC	
JAN2N5966	TEC	226-18
		253-79
2N5967	ΔTEC	185-73
SOD	SSI	243-104
JAN2N5967	TEC	185-74
		253-80
2N5968	ΔTEC	226-19
SOD	SSI	243-105
	STC	
JAN2N5968	TEC	226-20
		253-81
2N5969	ΔTEC	185-75
	SOD	243-106
JAN2N5969	TEC	185-76
		253-82
2N5970	CSR	222-94
IDI	MOTA	241-67
SCA	SSI	
STC	TEC	
2N5971	CSR	222-95
IDI	MOTA	241-68
SCA	SSI	
STC	TEC	
2N5972	CSR	222-96
IDI	MOTA	241-69
SCA	SSI	
STC	TEC	
2N5973	CSR	222-97
IDI	MOTA	241-70
SCA	SSI	
STC	TEC	
2N5974	Δ♦MOTA	184-21
2N5975	Δ♦MOTA	184-22
2N5976	Δ♦MOTA	184-23
2N5977	Δ♦MOTA	216-94
2N5978	Δ♦MOTA	216-95
2N5979	Δ♦MOTA	216-96
2N5980	Δ♦MOTA	184-82
2N5981	Δ♦MOTA	184-83
2N5982	Δ♦MOTA	184-84
2N5983	Δ♦MOTA	220-91
2N5984	Δ♦MOTA	220-92
2N5985	Δ♦MOTA	220-93
2N5986	Δ♦MOTA	184-93
2N5987	Δ♦MOTA	184-94
2N5988	Δ♦MOTA	184-95
2N5989	Δ♦MOTA	221-12
	KER	
2N5990	Δ♦MOTA	221-13
2N5991	Δ♦MOTA	221-14
2N5992	Δ♦RCA	209-70
2N5993	Δ♦RCA	209-71
2N5994	Δ♦RCA	209-72
2N5995	Δ♦RCA	201-17
2N5996	Δ♦RCA	209-73
2N5998	Δ♦GESY	135-51
	STI	
2N5999	Δ♦GESY	105-12
	STI	
2N6000	Δ♦GESY	136-45
		263-105
2N6001	Δ♦GESY	107-20
	STI	266-84
2N6002	Δ♦GESY	136-56
	STI	265-47

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2N6003	Δ♦GESY	107-22
	STI	266-99
2N6004	Δ♦GESY	136-46
	STI	263-106
2N6005	Δ♦GESY	107-21
	STI	266-85
2N6006	Δ♦GESY	136-57
	STI	265-48
2N6007	Δ♦GESY	107-23
	STI	266-100
2N6008	Δ♦GESY	135-52
	STI	
2N6009	Δ♦GESY	105-13
	STI	
2N6010	Δ♦GESY	139-67
	STI	263-83
2N6011	Δ♦GESY	108-31
	STI	260-67
2N6012	Δ♦GESY	139-73
	STI	265-37
2N6013	Δ♦GESY	108-36
	STI	264-48
2N6014	Δ♦GESY	139-68
	STI	263-84
2N6015	Δ♦GESY	108-32
	STI	260-68
2N6016	STI	139-74
		265-38
2N6017	STI	108-37
		264-49
2N6021	SES	181-53
2N6022	SES	181-54
2N6023	SES	181-55
2N6024	SES	181-56
2N6025	SES	181-57
2N6026	SES	181-58
2N6029	Δ♦MOTA	185-57
KER	PPC	
SSI	TEC	
2N6030	Δ♦MOTA	185-58
KER	PPC	
SSI	TEC	
2N6031	Δ♦MOTA	185-59
PPC	SSI	
	TEC	
2N6032	Δ♦RCA	221-15
KER	MISI	252-27
PPC	STC	
	THCF	
2N6033	Δ♦RCA	221-16
MISI	PPC	252-28
STC	THCF	
2N6034	Δ♦MOTA	182-6
2N6035	Δ♦MOTA	182-7
2N6036	Δ♦MOTA	182-8
2N6037	Δ♦MOTA	210-61
2N6038	Δ♦MOTA	210-62
2N6039	Δ♦MOTA	210-63
2N6040	Δ♦MOTA	176-32
	KER	
2N6041	Δ♦MOTA	176-33
2N6042	Δ♦MOTA	176-34
2N6043	Δ♦MOTA	190-48
	KER	
2N6044	Δ♦MOTA	190-49
2N6045	Δ♦MOTA	190-50
2N6046	CSR	225-90
IDI	SCA	248-85
SES	SOD	
SSI	STC	
	TRW	
2N6047	CSR	225-91
IDI	SCA	248-86
SES	SOD	
SSI	STC	
	TRW	
2N6048	CSR	225-92
IDI	SCA	248-87
SES	SOD	
SSI	STC	
2N6049	Δ♦MOTA	183-5
PPC	STC	
2N6050	Δ♦MOTA	185-6
2N6051	Δ♦MOTA	185-7
2N6052	Δ♦MOTA	185-8
2N6053	Δ♦MOTA	184-19
2N6054	Δ♦MOTA	184-20
2N6055	Δ♦MOTA	216-80
KER	♦RCA	
2N6056	Δ♦MOTA	216-81
	♦RCA	
2N6057	Δ♦MOTA	223-7
	KER	
2N6058	Δ♦MOTA	223-8
2N6059	Δ♦MOTA	223-9
2N6060	ΔTEC	228-75
IDI	SCA	244-2
SOD	SSI	
	STC	
JAN2N6060	TEC	228-76
		253-83
2N6061	ΔTEC	185-87
KER	SOD	244-3
JAN2N6061	TEC	185-88
		253-84
2N6062	ΔTEC	228-77
IDI	KER	244-4
SCA	SLD	
SST	STC	
JAN2N6062	TEC	228-78
		253-85
2N6063	ΔTEC	185-89
		244-5

TYPE No.	MFRS	Pg&Line
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		253-86
2N6064	Δ♦MOTA	168-9
		236-71
2N6065	Δ♦MOTA	168-10
		236-72
2N6066	Δ♦MOTA	168-11
		236-73
2N6067	Δ♦MOTA	109-72
		256-64
2N6076	Δ♦GESY	103-25
2N6077	Δ♦RCA	209-24
SSI	STC	239-25
	UNI	
2N6078	Δ♦RCA	209-25
SSI	STC	239-26
	UNI	
2N6079	Δ♦RCA	209-26
KER	SSI	239-27
	STC	
2N6080	Δ♦MOTA	200-44
KER	♦SSS	
	TIIB	
2N6081	Δ♦MOTA	205-76
KER	♦SSS	
	TIIB	
2N6082	Δ♦MOTA	216-35
KER	♦SSS	
	TIIB	
2N6083	Δ♦MOTA	216-36
KER	♦SSS	
	TIIB	
2N6084	Δ♦MOTA	217-56
KER	♦SSS	
	TIIB	
2N6085	Δ♦TSC	125-34
		271-22
2N6086	ΔTSC	125-35
		271-23
2N6087	ΔTSC	125-36
		271-24
2N6088	ΔTSC	125-37
		271-25
2N6089	ΔTSC	125-38
		271-26
2N6090	ΔTSC	125-39
		271-27
2N6091	ΔTSC	125-40
		271-28
2N6092	ΔTSC	125-41
		271-29
2N6093	Δ♦RCA	220-5
2N6094	Δ♦MOTA	177-34
2N6095	Δ♦MOTA	178-102
2N6096	Δ♦MOTA	180-89
2N6097	Δ♦MOTA	182-76
2N6098	Δ♦RCA	216-97
	PPC	
2N6099	Δ♦RCA	216-98
MISI	PPC	
	♦THCF	
2N6100	Δ♦RCA	216-99
	PPC	
2N6101	Δ♦RCA	216-100
MISI	PPC	
	♦THCF	
2N6102	Δ♦RCA	216-101
	PPC	
2N6103	Δ♦RCA	216-102
	PPC	
2N6104	Δ♦RCA	209-107
JAN2N6104	none	190-24
2N6105	Δ♦RCA	209-108
JAN2N6105	none	190-25
2N6106	Δ♦RCA	182-9
2N6107	Δ♦RCA	182-10
MISI	♦THCF	
2N6108	Δ♦RCA	182-11
2N6109	Δ♦RCA	182-12
MISI	♦THCF	
2N6110	Δ♦RCA	182-13
2N6111	Δ♦RCA	182-14
MISI	♦THCF	
2N6112	ΔUPI	133-53
2N6114	Δ♦MOTA	277-6
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2N6115	Δ♦MOTA	277-7
	GESY	
2N6119	Δ♦UNI	277-8
2N6120	Δ♦UNI	277-9
2N6121	ΔFSC	210-64
	SSI	
2N6122	ΔFSC	210-65
	SSI	
2N6123	ΔFSC	210-66
	SSI	
2N6124	ΔFSC	182-15
2N6125	ΔFSC	182-16
2N6126	ΔFSC	182-17
2N6127	Δ♦TII	184-71
KER	PPC	
SOD	SSI	
	TIIB	
2N6128	Δ♦TII	220-15
GSE	KER	
PPC	SCA	
SSI	STC	
	TIIB	
2N6129	ΔFSC	213-15
	SSI	
2N6130	ΔFSC	213-16
SES	SSI	
2N6131	ΔFSC	213-17
SES	SSI	

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2N6132	ΔFSC	182-89
	SSI	
2N6133	ΔFSC	182-90
	SSI	
2N6134	ΔFSC	182-91
	SSI	
2N6136	Δ♦MOTA	212-44
2N6166	Δ♦MOTA	220-6
	TIIB	
2N6175	Δ♦RCA	205-90
2N6176	Δ♦RCA	205-91
2N6177	Δ♦RCA	205-92
2N6178	Δ♦RCA	206-23
		251-25
2N6179	Δ♦RCA	206-24
		251-26
2N6180	Δ♦RCA	180-20
		251-35
2N6181	Δ♦RCA	180-21
		251-36
2N6182	Δ♦MOTA	182-77
PPC	SSI	246-66
2N6183	Δ♦MOTA	182-78
PPC	SSI	246-67
2N6184	Δ♦MOTA	182-79
PPC	SSI	246-68
2N6185	Δ♦MOTA	182-80
PPC	SSI	246-69
2N6186	Δ♦MOTA	182-81
PPC	SSI	246-70
2N6187	Δ♦MOTA	182-82
PPC	SSI	246-71
2N6188	Δ♦MOTA	182-83
PPC	SSI	246-72
2N6189	Δ♦MOTA	182-84
KER	PPC	246-73
	SSI	
2N6190	Δ♦MOTA	177-103
SCA	♦SOD	246-74
	SSI	
2N6191	Δ♦MOTA	177-104
SCA	SSI	246-75
2N6192	Δ♦MOTA	177-105
SCA	♦SOD	246-76
SSI	STI	
2N6193	Δ♦MOTA	177-106
SCA	SSI	246-77
2N6197	Δ♦CTR	198-8
2N6198	Δ♦CTR	203-102
2N6199	Δ♦CTR	209-89
2N6200	Δ♦CTR	214-97
2N6201	Δ♦CTR	221-17
2N6202	ΔCTR	198-9
2N6203	ΔCTR	202-8
2N6204	ΔCTR	207-87
2N6205	ΔCTR	214-65
2N6206	ΔCTR	198-10
2N6207	ΔCTR	202-9
2N6208	ΔCTR	207-88
2N6211	Δ♦RCA	180-22
	STC	245-62
JAN2N6211	none	176-35
		255-53
2N6212	Δ♦RCA	180-23
	STC	245-63
JAN2N6212	none	176-36
		255-54
2N6213	Δ♦RCA	180-24
	STC	245-64
JAN2N6213	none	176-37
		255-55
2N6214	Δ♦RCA	180-25
	STC	
2N6215	Δ♦SOD	226-21
SSI	STC	245-79
2N6216	SSI	220-51
		245-77
2N6217	SSI	220-52
		245-78
2N6218	Δ♦GESY	139-88
	STI	267-26
2N6219	Δ♦GESY	139-89
	STI	267-27
2N6220	Δ♦GESY	139-90
	STI	267-28
2N6221	Δ♦GESY	139-91
	STI	267-29
2N6222	Δ♦GESY	132-94
2N6223	Δ♦GESY	103-26
2N6224	Δ♦GESY	132-95
2N6225	Δ♦GESY	103-27
2N6226	Δ♦MOTA	185-9
PPC	SSI	
	TEC	
2N6227	Δ♦MOTA	185-10
PPC	SSI	
	TEC	
2N6228	Δ♦MOTA	185-11
PPC	SSI	
2N6229	Δ♦MOTA	185-12
PPC	SOD	
	TEC	
2N6230	Δ♦MOTA	185-13
PPC	SOD	
	TEC	
2N6231	Δ♦MOTA	185-14
PPC	TEC	
2N6232	♦GSE	204-7
	♦UNI	247-57
2N6232-4	♦UNI	204-8
		247-58
2N6233	Δ♦MOTA	209-90
FSC	SCA	245-23
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TYPE No.	MFRS	Pg&Line
2N6233		
(cont.)	SSI	
STC	UNI	
2N6234	Δ♦MOTA	209-91
FSC	SCA	245-24
SSI	STC	
	UNI	
2N6235	Δ♦MOTA	209-92
AMC	FSC	245-25
SCA	SSI	
STC	UNI	
2N6246	Δ♦RCA	184-72
KER	PPC	
SES	SSI	
	STC	
2N6247	Δ♦RCA	184-73
PPC	SES	
SSI	STC	
2N6248	Δ♦RCA	184-74
PPC	SES	
	SSI	
2N6249	KER	223-77
♦RCA	SES	240-10
SSI	♦STC	
2N6250	Δ♦RCA	223-78
SES	SSI	240-11
	♦STC	
2N6251	Δ♦RCA	223-79
KER	SES	240-12
	♦STC	
2N6253	Δ♦RCA	217-89
HZN	IDI	
♦MOTA	NSC	
PPC	SCA	
SES	SPC	
SSI	♦STC	
	TEC	
2N6254	Δ♦RCA	222-102
AMC	HZN	
IDI	KER	
♦MOTA	PPC	
SEN	SES	
SOD	SPC	
SSI	♦STC	
	TEC	
2N6255	ΔMOTA	193-16
	KER	
2N6256	Δ♦MOTA	189-100
2N6257	Δ♦RCA	222-98
AMC	HZN	
IDI	♦MOTA	
PPC	SEN	
SES	SOD	
SPC	SSI	
♦STC	TEC	
2N6258	Δ♦RCA	227-95
AMC	HZN	
IDI	MOTA	
PPC	PRE	
SEI	SES	
SOD	SPC	
SSI	♦STC	
	TEC	
2N6259	Δ♦RCA	227-96
AMC	HZN	
IDI	KER	
MOTA	PPC	
SEN	SES	
SOD	SPC	
SSI	♦STC	
2N6260	Δ♦RCA	204-85
AMC	HZN	
PPC	SES	
SSI	♦STC	
2N6261	Δ♦RCA	209-93
AMC	HZN	
PPC	SEN	
SES	SSI	
	♦STC	
2N6262	Δ♦RCA	223-10
HZN	IDI	
♦MOTA	PPC	
SES	SOD	
SPC	SSI	
	♦STC	
2N6263	Δ♦RCA	202-10
HZN	PPC	
SEN	SES	
SSI	STC	
2N6264	Δ♦RCA	209-94
HZN	PPC	
SEN	SES	
SSI	STC	
2N6265	Δ♦RCA	196-97
JAN2N6265	none	196-98
2N6266	Δ♦RCA	202-29
JAN2N6266	none	202-30
2N6267	Δ♦RCA	204-86
JAN2N6267	none	205-52
2N6268	Δ♦RCA	196-99
2N6269	Δ♦RCA	205-53
2N6270	Δ♦TII	228-79
PPC	SCA	
SSI	TIIB	
2N6271	Δ♦TII	228-80
PPC	SCA	
SSI	TIIB	
2N6272	Δ♦TII	228-81
PPC	SCA	
SSI	TIIB	
2N6273	Δ♦TII	228-82
PPC	SCA	
SSI	TIIB	

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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2N6274	△♦MOTA	227- 97
KER	PPC	248- 4
	STC	
2N6275	△♦MOTA	227- 98
PPC	STC	248- 5
2N6276	△♦MOTA	227- 99
PPC	STC	248- 6
2N6277	△♦MOTA	227-100
KER	PPC	248- 7
	STC	
2N6278	△♦MOTA	227-101
PPC	SOD	248- 8
	STC	
2N6279	△♦MOTA	227-102
PPC	SOD	248- 9
	STC	
2N6280	△♦MOTA	227-103
PPC	SOD	248-10
	STC	
2N6281	△♦MOTA	227-104
PPC	SOD	248-11
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2N6282	△♦MOTA	223- 34
2N6283	△♦MOTA	223- 35
	KER	
2N6284	△♦MOTA	223- 36
2N6285	△♦MOTA	185- 23
2N6286	△♦MOTA	185- 24
2N6287	△♦MOTA	185- 25
2N6288	△♦RCA	210- 67
2N6289	△♦RCA	210- 68
2N6290	△♦RCA	210- 69
2N6291	△♦RCA	210- 70
2N6292	△♦RCA	210- 71
2N6293	△♦RCA	210- 72
2N6294	△♦MOTA	209- 95
2N6295	△♦MOTA	209- 96
2N6296	△♦MOTA	181- 51
2N6297	△♦MOTA	181- 52
2N6298	△♦MOTA	183- 3
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2N6300	△♦MOTA	214- 25
2N6301	△♦MOTA	214- 26
2N6302	△♦MOTA	223- 11
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2N6303	△♦MOTA	175- 30
		252- 46
2N6304	△♦MOTA	120-107
2N6305	△♦MOTA	120- 95
2N6306	△♦MOTA	220- 53
KER	SPC	242- 16
SSI	STC	
JAN2N6306	none	221- 86
		248- 88
2N6307	△♦MOTA	220- 54
SPC	SSI	242- 17
	STC	
2N6308	△♦MOTA	220- 55
KER	SPC	242- 18
SSI	STC	
JAN2N6308	none	221- 87
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2N6309	△MOTA	232- 21
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2N6310	△MOTA	232- 22
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2N6311	△MOTA	232- 23
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2N6312	△♦MOTA	183- 6
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2N6313	△♦MOTA	183- 7
PPC	SSI	
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2N6314	△♦MOTA	183- 8
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	STC	
2N6315	△♦MOTA	216- 33
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2N6316	△♦MOTA	216- 34
PPC	SSI	241- 92
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2N6317	△♦MOTA	183-102
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SSI	STC	241- 94
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2N6323	△♦TII	230- 29
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	TIIB	
2N6324	△♦TII	230- 30
SSI	STC	
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2N6325	△♦TII	230- 31
SSI	STC	
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2N6326	△♦TII	225- 93
ETIF	PPC	
SOD	SSI	
STC	TIIB	
2N6327	△♦TII	225- 94
ETIF	PPC	
SOD	SSI	
STC	TIIB	

TYPE No.	MFRS	Pg&Line
2N6328	△♦TII	225- 95
ETIF	PPC	
SOD	SSI	
STC	TIIB	
2N6329	△♦TII	185- 60
ETIF	SSI	
STC	TIIB	
2N6330	△♦TII	185- 61
ETIF	SSI	
STC	TIIB	
2N6331	△♦TII	185- 62
ETIF	SSI	
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2N6338	△♦MOTA	225- 96
PPC	SSI	249-105
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2N6339	△♦MOTA	225- 97
PPC	SSI	249-106
	STC	
2N6340	△♦MOTA	225- 98
PPC	SSI	249-107
	STC	
2N6341	△♦MOTA	225- 99
PPC	SSI	249-108
	STC	
2N6350	△UNI	252- 7
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JAN2N6350	none	282- 2
2N6351	△UNI	252- 8
		282- 3
JAN2N6351	none	282- 4
2N6352	△UNI	252- 9
		282- 5
JAN2N6352	none	282- 6
2N6353	△UNI	252- 10
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JAN2N6353	none	282- 8
2N6354	△♦RCA	221- 18
KER	♦STC	253- 66
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2SA270	FCAJ	81- 38
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2SA272	FCAJ	81- 13
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2SA408	FCAJ	79- 29
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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	♦WESY	235-104
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1718-0602	STC	211 - 80
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1718-0805	STC	211 - 83
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1718-1005	STC	211 - 85
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1718-1202	STC	211 - 86
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1718-1205	STC	211 - 87
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1718-1402	STC	211 - 88
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1718-1602	STC	211 - 90
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1718-1605	STC	211 - 91
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1723-0610	STC	222 - 16
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1723-1410	STC	222 - 24
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1748-0810	STC	223-106
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1748-0820	STC	223-107
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1748-1610	STC	224 - 6
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1748-1620	STC	224 - 7
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1748-1810	STC	224 - 8
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1756-0660	STC	228 - 93
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1756-0840	STC	228 - 94
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1756-0860	STC	228 - 95
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1756-1040	STC	228 - 96
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1756-1060	STC	228 - 97
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1756-1240	STC	228 - 98
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1756-1260	STC	228 - 99
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1756-1440	STC	228-100
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1756-1460	STC	228-101
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1756-1640	STC	228-102
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1756-1660	STC	228-103
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1756-1840	STC	228-104
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1763-0630	STC	222 - 31
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1763-0810	STC	222 - 32
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1763-0820	STC	222 - 33
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1763-1010	STC	222 - 35
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦MULB	NASB	
NPC	NSC	
♦NTLB	♦PHIN	
♦RTCF	SGAI	
SIEG	TADI	
THCF	TIIB	
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ITTB	MEHK	
MISI	♦MULB	
♦NPC	NSC	
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ITTB	MEHK	
MISI	♦MULB	
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♦MULB	NASB	
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ITTB	MEHK	
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♦NPC	NSC	
♦RTCF	SGAI	
SIEG	TADI	
THCF	TIIF	
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ITTB	MEHK	
MISI	♦MULB	
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ITTB	MEHK	
MISI	♦MULB	
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THCF	TIIF	
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INTG	ITTB	
MEHK	MISI	
♦MULB	NASB	
NPC	NSC	
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SIEG	TADI	
THCF	TIIB	
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ITTB	MEHK	
MISI	♦MULB	
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MEHK	NSC	271 - 57
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BC141-10	♦INTG	144 - 3
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♦MULB	♦PHIN	
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♦MULB	♦PHIN	
♦RTCF	SIEG	
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♦BELI	MEHK	
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♦MULB	♦PHIN	
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SIEG	♦VALG	
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♦PHIN	♦RTCF	
SGAI	♦SIEG	
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BC159A	BELI	102 - 89
♦MULB	♦PHIN	
	♦RTCF	
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MEHK	NSC	
SGAI	♦VALG	
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MEHK	NSC	
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BC160-16	♦INTG	110 - 17
MEHK	NSC	
SGAI	♦VALG	
BC161	ALGG	176 - 79
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SGAI	♦SIEG	
TADI	♦VALG	
BC161-6	♦INTG	110 - 18
MEHK	NSC	
SGAI	♦VALG	
BC161-10	♦INTG	110 - 19
MEHK	NSC	
SGAI	♦VALG	
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	SIEG	
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	SIEG	
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BC170B	INTG	125 - 83
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BC170C	INTG	125 - 84
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MEHK	NSC	
BC171A	INTG	127 - 60
	NSC	
BC171B	INTG	127 - 61
	NSC	
BC172	ITTB	118 - 21
MEHK	NSC	
BC172A	INTG	127 - 62
	NSC	
BC172B	INTG	127 - 63
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BC172C	INTG	127 - 64
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MEHK	NSC	
BC173A	NSC	118 - 23
BC173B	INTG	128 - 15
	NSC	
BC173C	INTG	128 - 16
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MISI	NASB	
NPC	NSC	
♦PHIN	♦RTCF	
SGAI	♦SIEG	
TADI	THCF	
TIIB	TIIF	
	♦VALG	
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♦NPC	NSC	
SIEG	TADI	
♦THCF	TIIB	
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BC177B	♦MISI	100 - 66
♦NPC	NSC	
SIEG	♦THCF	
TIIB	TIIF	
BC177V	♦MISI	100 - 67
	♦THCF	
BC177VI	♦ALGG	100 - 68
♦MISI	♦NPC	
NSC	♦THCF	
BC178	♦BELI	100 - 69
ELMA	MEHK	
MISI	NASB	
NPC	NSC	
♦PHIN	♦RTCF	
SGAI	♦SIEG	
TADI	THCF	
TIIB	TIIF	
	♦VALG	
BC178A	♦ALGG	100 - 70
MEHK	♦MISI	
♦NPC	NSC	
♦PHIN	♦RTCF	
SIEG	TADI	
♦THCF	TIIB	
	TIIF	
BC178B	♦ALGG	100 - 71
MEHK	♦MISI	
♦NPC	NSC	
♦PHIN	♦RTCF	
SIEG	TADI	
♦THCF	TIIB	
	TIIF	
BC178C	SIEG	99 - 82
BC178V	♦MISI	100 - 72
	♦THCF	
BC178VI	♦ALGG	100 - 73
♦MISI	♦NPC	
	♦THCF	
BC179	♦BELI	100 - 74
ELMA	MEHK	

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TYPE No.	MFRS	Pg&Line
BC179		
(cont.)	MISI	
NASB	NPC	
NSC	♦PHIN	
♦RTCF	SGAI	
♦SIEG	TADI	
THCF	TIIB	
TIIF	♦VALG	
BC179A	♦ALGG	99 - 83
♦BELI	MEHK	
♦MISI	♦NPC	
NSC	♦PHIN	
♦RTCF	TADI	
♦THCF	TIIB	
	TIIF	
BC179B	♦ALGG	100 - 75
MEHK	♦MISI	
♦NPC	NSC	
♦PHIN	♦RTCF	
SIEG	TADI	
♦THCF	TIIB	
	TIIF	
BC179C	SIEG	99 - 84
BC181	TIID	98 - 90
BC182	MEHK	126 - 12
NSC	PIHS	256 - 72
♦SIEG	♦TIIB	
TIIC	TIID	
	TIIF	
BC182A△	ALGG	126 - 13
NSC	PIHS	256 - 73
♦TIIB	TIIC	
	TIID	
BC182A☑	♦SIEG	126 - 14
	TADI	
BC182B△	ALGG	126 - 15
NSC	♦TIIB	256 - 74
TIIC	TIID	
BC182B☑	♦SIEG	126 - 16
	TADI	
BC182K	NSC	118 - 24
BC182KA	NSC	118 - 25
BC182KB	NSC	118 - 26
BC182L	NSC	126 - 17
♦TIIB	TIIC	256 - 75
BC182LA	NSC	126 - 18
	♦TIIB	256 - 76
BC182LB	NSC	126 - 19
	♦TIIB	256 - 77
BC183	MEHK	126 - 20
NSC	PIHS	256 - 78
♦TIIB	TIIC	
TIID	TIIF	
BC183A	NSC	126 - 21
♦TIIB	TIIC	256 - 79
	TIID	
BC183A☑	PIHS	126 - 22
♦SIEG	TADI	
BC183B	NSC	126 - 23
♦TIIB	TIIC	256 - 80
	TIID	
BC183B☑	PIHS	126 - 24
♦SIEG	TADI	
BC183C	NSC	126 - 25
PIHS	♦SIEG	256 - 81
	♦TIIB	
BC183K	NSC	118 - 27
BC183KA	NSC	118 - 28
BC183KB	NSC	118 - 29
BC183KC	NSC	118 - 30
BC183L	NSC	126 - 26
♦TIIB	TIIC	256 - 82
BC183LA	NSC	126 - 27
	♦TIIB	256 - 83
BC183LB	NSC	126 - 28
	♦TIIB	256 - 84
BC183LC	NSC	126 - 29
	♦TIIB	256 - 85
BC184	NSC	126 - 30
PIHS	♦TIIB	256 - 86
TIIC	TIID	
	TIIF	
BC184B	NSC	126 - 31
PIHS	♦TIIB	256 - 87
TIIC	TIID	
BC184C	NSC	126 - 32
PIHS	♦TIIB	256 - 88
BC184K	NSC	118 - 31
BC184KB	NSC	118 - 32
BC184KC	NSC	118 - 33
BC184L	NSC	126 - 33
♦TIIB	TIIC	256 - 89
BC184LB	NSC	126 - 34
	♦TIIB	256 - 90
BC184LC	NSC	126 - 35
	♦TIIB	256 - 91
BC185	SGAI	143 - 81
BC186	ELMA	100 - 42
	♦MULB	
BC187	♦MULB	100 - 54
BC190A	INTG	126 -104
BC190B	INTG	126 -105
BC192	INTG	106 - 53
BC200	♦PHIN	94 - 13
RTCF	♦VALG	
BC201	SIEG	98 - 68
BC202	SIEG	98 - 69
BC203	SIEG	98 - 70
BC204A	MEHK	100 - 76
MISI	♦NPC	
NSC	SGAI	
	THCF	
BC204B	MEHK	100 - 77

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TYPE No.	MFRS	Pg&Line
BC204B		
(cont.)	MISI	
	♦NPC	NSC
	SGAI	THCF
BC204V	MEHK	100- 78
	MISI	THCF
BC204VI	MEHK	100- 79
	MISI	♦NPC
	NSC	SGAI
		THCF
BC205	MEHK	96- 17
	MISI	NPC
	NSC	SGAI
		THCF
BC205A	MEHK	100- 80
	MISI	♦NPC
	NSC	SGAI
		THCF
BC205B	MEHK	100- 81
	MISI	♦NPC
	NSC	SGAI
		THCF
BC205V	MEHK	100- 82
	MISI	THCF
BC205VI	MEHK	100- 83
	MISI	♦NPC
		THCF
BC206	MEHK	96- 18
	MISI	NPC
	NSC	SGAI
		THCF
BC206B	MEHK	100- 84
	MISI	♦NPC
	NSC	SGAI
		THCF
BC207	MEHK	118- 56
	MISI	NPC
	NSC	♦SGAI
		THCF
BC207A	MEHK	118- 57
	♦MISI	♦NPC
	NSC	♦SGAI
		♦THCF
BC207B	MEHK	118- 58
	♦MISI	♦NPC
	NSC	♦SGAI
		♦THCF
BC208	MEHK	118- 59
	MISI	NPC
	NSC	♦SGAI
		THCF
BC208A	MEHK	118- 60
	♦MISI	♦NPC
	NSC	♦SGAI
		♦THCF
BC208B	MEHK	118- 61
	♦MISI	♦NPC
	NSC	♦SGAI
		♦THCF
BC208C	MEHK	118- 62
	♦MISI	♦NPC
	NSC	♦SGAI
		♦THCF
BC209	MEHK	118- 63
	MISI	NPC
	NSC	♦SGAI
		THCF
BC209B	MEHK	118- 64
	♦MISI	♦NPC
	NSC	♦SGAI
		♦THCF
BC209C	MEHK	118- 65
	♦MISI	♦NPC
	NSC	♦SGAI
		♦THCF
BC211	MEHK	145- 8
	MISI	♦NPC
		THCF
BC211A	♦MISI	147- 67
	♦NPC	THCF
BC212	MEHK	100- 85
	NSC	PIHS 259- 95
	SIEG	♦TIIB
	TIIC	TIID
BC212A	ALGG	100- 86
	NSC	PIHS 259- 96
	♦SIEG	♦TIIB
		TIID
BC212B	ALGG	100- 87
	NSC	PIHS 259- 97
	♦SIEG	♦TIIB
		TIID
BC212K	NSC	100- 88
		259- 98
BC212KA	NSC	100- 89
		259- 99
BC212KB	NSC	100- 90
		259-100
BC212L	NSC	100- 91
	♦TIIB	TIIC 259-101
BC212LA	NSC	100- 92
	♦TIIB	259-102
BC212LB	NSC	100- 93
	♦TIIB	259-103
BC213	MEHK	100- 94
	NSC	PIHS 259-104
	♦TIIB	TIIC
		TIID
BC213A	NSC	100- 95
	PIHS	♦TIIB 259-105
		TIID
BC213B	NSC	100- 96
	PIHS	♦TIIB 259-106
		TIID
BC213C	NSC	100- 97
	PIHS	♦TIIB 259-107
		TIID
BC213K	NSC	100- 98
		259-108
BC213KA	NSC	100- 99
		259-109
BC213KB	NSC	100-100
		259-110
BC213KC	NSC	100-101
		260- 1
BC213L	NSC	100-102
	♦TIIB	TIIC 260- 2
BC213LA	NSC	100-103
	♦TIIB	260- 3
BC213LB	NSC	100-104
	♦TIIB	260- 4
BC213LC	NSC	100-105
	♦TIIB	260- 5
BC214	MEHK	100-106
	NSC	PIHS 260- 6
	♦TIIB	TIIC
		TIID
BC214A	PIHS	100-107
		TIID 260- 7
BC214B	NSC	100-108
	PIHS	♦TIIB 260- 8
		TIID
BC214C	NSC	100-109
	PIHS	♦TIIB 260- 9
		TIID
BC214K	NSC	100-110
		260- 10
BC214KB	NSC	101- 1
		260- 11
BC214KC	NSC	101- 2
		260- 12
BC214L	NSC	101- 3
	♦TIIB	TIIC 260- 13
BC214LB	NSC	101- 4
	♦TIIB	260- 14
BC214LC	NSC	101- 5
	♦TIIB	260- 15
BC221	SGAI	100- 11
BC222	SGAI	127- 67
BC223A	TIID	132-101
BC223B	TIID	132-102
BC224	PIHS	96-101
	TIID	
BC225	SGAI	95-110
BC231A	TIID	109- 28
BC231B	TIID	109- 29
BC231M	TIIF	110-101
BC232A	TIID	142- 70
BC232B	TIID	142- 71
BC232M	TIIF	147- 68
BC236	MISI	124- 87
	♦NPC	THCF
BC237△	PIHS	127- 68
	♦SIEG	TIID
BC237%	MEHK	128- 17
	NSC	♦PHIN
		♦VALG
BC237A	♦ALGG	128- 18
	INTG	ITTB
	MEHK	NSC
	♦PHIN	PIHS
	SIEG	TIID
		♦VALG
BC237B	♦ALGG	128- 19
	INTG	ITTB
	NSC	♦PHIN
		PIHS
		TIID
BC238△	PIHS	127- 69
	♦SIEG	TIID
BC238%	MEHK	128- 20
	NSC	♦PHIN
		♦VALG
BC238A	♦ALGG	128- 21
	INTG	ITTB
	MEHK	NSC
	♦PHIN	PIHS
	SIEG	TIID
		♦VALG
BC238B	♦ALGG	128- 22
	INTG	ITTB
	MEHK	NSC
	♦PHIN	PIHS
	SIEG	TIID
		♦VALG
BC238C	♦ALGG	128- 23
	INTG	ITTB
	MEHK	NSC
	♦PHIN	PIHS
	SIEG	TIID
		♦VALG
BC239△	PIHS	128- 24
	♦SIEG	TIID
BC239%	MEHK	128- 25
	♦PHIN	♦VALG
BC239B	♦ALGG	128- 26
	INTG	ITTB
	MEHK	NSC
	♦PHIN	PIHS
	SIEG	TIID
		♦VALG
BC239C	♦ALGG	128- 27
	INTG	ITTB
	MEHK	NSC
	♦PHIN	PIHS
	SIEG	TIID
		♦VALG
BC250A	♦INTG	100- 44
BC250B	♦INTG	100- 45
BC250C	♦INTG	100- 46
BC251	ITTB	95- 80
	MEHK	
BC251A	♦INTG	101- 6
	ITTB	MEHK
		NSC
BC251B	♦INTG	101- 7
	ITTB	MEHK
		NSC
BC251C	♦INTG	101- 8
	ITTB	MEHK
BC252	ITTB	95- 81
	MEHK	
BC252A	♦INTG	101- 9
	ITTB	MEHK
		NSC
BC252B	♦INTG	101- 10
	ITTB	MEHK
		NSC
BC252C	♦INTG	101- 11
	ITTB	MEHK
BC253	ITTB	95- 82
BC253A	♦INTG	101- 12
		NSC
BC253B	♦INTG	101- 13
	ITTB	NSC
BC253C	♦INTG	101- 14
	ITTB	
BC254	TIID	122- 28
BC256A	♦INTG	101- 15
	ITTB	
BC256B	♦INTG	101- 16
	ITTB	
BC257	PIHS	96- 66
	♦SIEG	
BC257A	PIHS	99- 85
	SIEG	
BC257B	SIEG	99- 86
BC257VI	PIHS	99- 87
BC258	PIHS	96- 67
	♦SIEG	
BC258A	PIHS	99- 88
	SIEG	
BC258B	PIHS	99- 89
	SIEG	
BC258C	SIEG	99- 90
BC258VI	PIHS	99- 91
BC259	PIHS	96- 68
	♦SIEG	
BC259A	PIHS	99- 92
BC259B	PIHS	99- 93
	SIEG	
BC259C	SIEG	101- 17
BC260A	ETIF	100- 47
	♦INTG	
BC260B	ETIF	100- 48
	♦INTG	
BC260C	ETIF	100- 49
	♦INTG	
BC261A	ETIF	101- 18
	♦INTG	ITTB
	MEHK	NASB
	NSC	TADI
		TIIB
BC261B	ETIF	101- 19
	♦INTG	ITTB
	MEHK	NASB
	NSC	TADI
		TIIB
BC261C	ETIF	101- 20
	♦INTG	ITTB
	MEHK	TIIB
BC262	MEHK	99- 94
BC262A	♦INTG	101- 21
	ITTB	MEHK
	NASB	NSC
	TADI	TIIB
BC262B	♦INTG	101- 22
	ITTB	MEHK
	NASB	NSC
	TADI	TIIB
BC262C	♦INTG	101- 23
	ITTB	MEHK
		TIIB
BC263A	♦INTG	101- 24
	ITTB	NASB
	NSC	TADI
	TIIB	TIIF
BC263B	♦INTG	101- 25
	ITTB	NASB
	NSC	TADI
	TIIB	TIIF
BC263C	♦INTG	101- 26
	ITTB	TIIB
BC264A	MISI	156- 55
	♦NPC	♦PHIN
	RTCF	THCF
	TIID	♦VALG
BC264B	MISI	156- 56
	♦NPC	♦PHIN
	RTCF	THCF
	TIID	♦VALG
BC264C	MISI	156- 57
	♦NPC	♦PHIN
	RTCF	THCF
	TIID	♦VALG
BC264D	MISI	156- 58
	♦NPC	♦PHIN
	RTCF	THCF
	TIID	♦VALG
BC264L	♦TIIB	156- 59
BC264LA	♦TIIB	156- 60
BC264LB	♦TIIB	156- 61
BC264LC	♦TIIB	156- 62
BC264LD	♦TIIB	156- 63
BC266A	♦INTG	101- 27
	ITTB	MEHK
BC266B	♦INTG	101- 28
	ITTB	MEHK
BC267	MEHK	126- 36
	SGAI	TADI
BC268	MEHK	126- 37
	SGAI	TADI
BC269	MEHK	126- 38
	SGAI	TADI
BC270	SGAI	126- 39
BC280A	♦SGAI	132-103
BC280B	♦SGAI	132-104
BC280C	♦SGAI	132-105
BC282	SGAI	135- 55
	TADI	
BC283	SGAI	105- 14
	TADI	
BC284	SGAI	138- 23
	TADI	
BC284A	SGAI	138- 24
BC284B	SGAI	138- 25
BC285	ETIF	133- 30
	SGAI	TADI
BC286	MEHK	146- 33
	SGAI	TADI
BC287	MEHK	110- 98
	SGAI	TADI
BC288	SGAI	146- 3
	TADI	
BC293	SGAI	146- 4
BC297	SGAI	105- 1
	TADI	
BC297-7	MEHK	105- 2
BC298	SGAI	105- 3
	TADI	
BC300	ETIF	195- 67
	MEHK	SGAI
	TADI	TIIB
BC300-4	MEHK	147-104
BC300-5	MEHK	147-105
BC300-6	MEHK	147-106
BC301	ETIF	195- 68
	MEHK	SGAI
	TADI	TIIB
BC301-4	MEHK	147-107
BC301-5	MEHK	147-108
BC301-6	MEHK	147-109
BC302	MEHK	195- 69
	SGAI	TADI
		TIIB
BC302-4	MEHK	147-110
BC302-5	MEHK	148- 1
BC302-6	MEHK	148- 2
BC303	MEHK	177- 6
	SGAI	TADI
		TIIB
BC303-4	MEHK	110-106
BC303-5	MEHK	110-107
BC303-6	MEHK	110-108
BC304	MEHK	177- 7
	SGAI	TADI
		TIIB
BC304-4	MEHK	110-109
BC304-5	MEHK	110-110
BC304-6	MEHK	111- 1
BC307△	INTG	99- 95
	NSC	PIHS
	♦SIEG	TIID
BC307☑	♦ALGG	98- 84
BC307%	MEHK	100- 12
	♦PHIN	♦VALG
BC307A	MEHK	99- 96
	NSC	PIHS
	SIEG	TIID
BC307B	MEHK	99- 97
	NSC	SIEG
		TIID
BC307VI	PIHS	99- 98
BC308△	INTG	99- 99
	♦PHIN	PIHS
	♦SIEG	TIID
BC308☑	♦ALGG	98- 85
	♦VALG	
BC308A	MEHK	100- 13
	NSC	♦PHIN
	PIHS	SIEG
	TIID	♦VALG
BC308B	MEHK	100- 14
	NSC	♦PHIN
	PIHS	SIEG
	TIID	♦VALG
BC308C	SIEG	99-100
BC308VI	PIHS	99-101
BC309△	INTG	99-102
	♦PHIN	PIHS
	♦SIEG	TIID
BC309☑	♦ALGG	98- 86
	♦VALG	
BC309A	MEHK	100- 15
	NSC	♦PHIN
	PIHS	TIID
		♦VALG
BC309B	MEHK	100- 16
	NSC	♦PHIN
	PIHS	SIEG
	TIID	♦VALG
BC309C	MEHK	99-103
	SIEG	
BC310	SGAI	146- 19
BC311	ETIF	110- 35
	SGAI	
BC312	ETIF	144- 44
	SGAI	
BC313	ETIF	110-103
	MISI	♦NPC 251- 89
		THCF
BC313A	ETIF	110-104
	MISI	♦NPC 251- 90
		THCF
BC315	TIID	98- 91
BC317	NSC	130- 71
BC317A	NSC	130- 72
BC317B	NSC	130- 73
BC318	NSC	130- 74
BC318A	NSC	130- 75
BC318B	NSC	130- 76
BC318C	NSC	130- 77
BC319	NSC	130- 78
BC319B	NSC	130- 79
BC319C	NSC	130- 80
BC323	ETIF	146- 34
	SGAI	
BC324	SGAI	146- 35
BC325	♦TIIB	103- 46
BC326	♦TIIB	103- 45
BC327	♦ALGG	107- 88
	♦APX	ELMA
	INTG	ITTB
	♦MULB	NSC
	♦PHIN	RTCF
	SIEG	TIID
		♦VALG
BC327-16	NSC	106- 54
	♦PHIN	♦SIEG
		♦VALG
BC327-25	NSC	106- 55
	♦PHIN	♦SIEG
		♦VALG
BC327-40	♦SIEG	106- 56
BC328	♦ALGG	107- 89
	♦APX	ELMA
	INTG	ITTB
	♦MULB	NSC
	♦PHIN	RTCF
	SIEG	TIID
		♦VALG
BC328-16	NSC	106- 57
	♦PHIN	♦SIEG
		♦VALG
BC328-25	NSC	106- 58
	♦PHIN	♦SIEG
		♦VALG
BC328-40	♦SIEG	106- 59
BC328/BC338	ALGG	271- 61
	♦APX	RTCF
		SIEG
BC337	♦ALGG	138-107
	♦APX	ELMA
	ETIF	INTG
	ITTB	♦MULB
	NSC	♦PHIN
	RTCF	SIEG
	TIID	♦VALG
BC337-16	NSC	141- 64
	♦PHIN	♦SIEG
		♦VALG
BC337-25	NSC	141- 65
	♦PHIN	♦SIEG
		♦VALG
BC337-40	♦SIEG	141- 66
BC337/BC327	ALGG	271- 62
	♦APX	RTCF
		SIEG
BC338	♦ALGG	138-108
	♦APX	ELMA
	INTG	ITTB
	♦MULB	NSC
	♦PHIN	RTCF
	SIEG	TIID
		♦VALG
BC338-16	NSC	141- 67
	♦PHIN	♦SIEG
		♦VALG
BC338-25	NSC	141- 68
	♦PHIN	♦SIEG
		♦VALG
BC338-40	♦SIEG	141- 69
BC340-6	♦INTG	146- 36
BC340-10	♦INTG	146- 37
BC340-16	♦INTG	146- 38
BC341-6	♦INTG	146- 39
BC341-10	♦INTG	146- 40
BC360-6	♦INTG	110- 64
BC360-10	♦INTG	110- 65
BC360-16	♦INTG	110- 66
BC361-6	♦INTG	110- 67
BC361-10	♦INTG	110- 68
BC370	SGAI	105- 4
	TADI	
BC377	SGAI	135- 40
	TADI	
BC378	SGAI	135- 41
	TADI	
BC382	TIIB	126- 40
BC382B	TIID	126- 41
BC382C	TIID	126- 42
BC383	TIIB	126- 43
BC383B	TIID	126- 44
BC383C	TIID	126- 45
BC384	TIIB	126- 46
BC384B	TIID	126- 47
BC384C	TIID	126- 48
BC393	SGAI	106- 69
BC394	SGAI	145- 9
BC395	SGAI	125- 42

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TYPE No.	MFRS	Pg&Line
BC396	SGAI	98 - 92
BC400	SGAI	95 -101
BC407	APX	122-107
NSC	♦RTCF	
BC407A	NSC	122-108
	♦RTCF	
BC407B	NSC	122-109
	♦RTCF	
BC408	APX	122-110
NSC	♦RTCF	
BC408A	NSC	123 - 1
	♦RTCF	
BC408B	NSC	123 - 2
	♦RTCF	
BC408C	NSC	123 - 3
	♦RTCF	
BC409	APX	123 - 4
NSC	♦RTCF	
BC409B	NSC	123 - 5
	♦RTCF	
BC409C	NSC	123 - 6
	♦RTCF	
BC413	NSC	122-101
BC413B	♦ALGG	127 - 70
INTG	ITTB	
NSC	♦SIEG	
	♦VALG	
BC413C	♦ALGG	127 - 71
INTG	ITTB	
NSC	♦SIEG	
	♦VALG	
BC414	NSC	122-102
BC414B	♦ALGG	127 - 72
INTG	ITTB	
NSC	♦SIEG	
	♦VALG	
BC414C	♦ALGG	127 - 73
INTG	ITTB	
NSC	♦SIEG	
	♦VALG	
BC415	PIHS	101 - 29
BC415A	♦ALGG	101 - 30
INTG	ITTB	
PIHS	♦SIEG	
	♦VALG	
BC415B	♦ALGG	101 - 31
INTG	ITTB	
PIHS	♦SIEG	
	♦VALG	
BC415C	♦ALGG	101 - 32
INTG	ITTB	
PIHS	♦SIEG	
	♦VALG	
BC416	PIHS	101 - 33
BC416A	♦ALGG	101 - 34
INTG	ITTB	
PIHS	♦SIEG	
	♦VALG	
BC416B	♦ALGG	101 - 35
INTG	ITTB	
PIHS	♦SIEG	
	♦VALG	
BC416C	♦ALGG	101 - 36
INTG	ITTB	
PIHS	♦SIEG	
	♦VALG	
BC417	♦RTCF	98 - 33
BC418	♦RTCF	98 - 34
BC418A	RTCF	98 - 35
BC418B	RTCF	98 - 36
BC419	♦RTCF	98 - 37
BC419A	RTCF	98 - 38
BC419B	RTCF	98 - 39
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BC429	TIIB	121-100
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8C430	TIIB	186-106
	TIID	
BC431	ALGG	138 - 62
BC432	ALGG	107 - 90
BC440	SGAI	216 - 73
BC441	SGAI	216 - 74
BC460	SGAI	184 - 16
8C461	MEHK	184 - 17
	SGAI	
8C461-4	MEHK	111 - 2
BC461-5	MEHK	111 - 3
BC461-6	MEHK	111 - 4
BC477	SGAI	103-101
BC477A	SGAI	103-102
BC477VI	SGAI	103-103
BC478	MEHK	103-104
	SGAI	
BC478A	SGAI	103-105
BC478B	SGAI	103-106
BC479	SGAI	103-107
BC479B	SGAI	103-108
BC512	♦TIID	101 - 37
BC512A	♦TIID	101 - 38
BC512B	♦TIID	101 - 39
BC513	♦TIID	101 - 40
BC513A	♦TIID	101 - 41
BC513B	♦TIID	101 - 42
BC513C	♦TIID	101 - 43
BC514	♦TIID	101 - 44
BC514A	♦TIID	101 - 45
BC514B	♦TIID	101 - 46
BC514C	♦TIID	101 - 47
BC516	TIID	282 - 16
BC517	TIID	282 - 17
BC546	♦PHIC	139 - 45
	♦RTCF	

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BC546A	♦ALGG	139 - 46
♦PHIC	♦RTCF	
	SIEG	
BC546B	♦ALGG	139 - 47
♦PHIC	♦RTCF	
	SIEG	
BC546VI	SIEG	139 - 48
BC547	♦MULB	139 - 49
♦PHIC	♦RTCF	
BC547A	♦ALGG	139 - 50
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RCA	♦RTCF	
	SIEG	
BC547B	♦ALGG	139 - 51
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC547C	♦PHIC	139 - 52
	♦RTCF	
BC547VI	SIEG	139 - 53
BC548	♦MULB	139 - 54
♦PHIC	♦RTCF	
BC548A	♦ALGG	139 - 55
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RCA	♦RTCF	
	SIEG	
BC548B	♦ALGG	139 - 56
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC548C	♦ALGG	139 - 57
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC548VI	SIEG	139 - 58
BC549	♦MULB	139 - 59
♦PHIC	♦RTCF	
BC549B	♦ALGG	139 - 60
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RCA	♦RTCF	
	SIEG	
BC549C	♦ALGG	139 - 31
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC550	♦PHIC	139 - 61
	♦RTCF	
BC550B	♦ALGG	139 - 62
♦PHIC	♦RTCF	
	SIEG	
BC550C	♦ALGG	139 - 32
♦PHIC	♦RTCF	
	SIEG	
BC556	♦PHIC	107-109
BC556A	♦ALGG	107-110
♦PHIC	SIEG	
BC556B	SIEG	108 - 35
BC556VI	♦ALGG	108 - 1
	SIEG	
BC557	ELMA	108 - 2
♦MULB	♦PHIC	
♦PHIN	♦RTCF	
BC557A	♦ALGG	108 - 3
♦PHIC	♦RTCF	
	SIEG	
BC557B	♦ALGG	108 - 4
	SIEG	
BC557VI	♦ALGG	108 - 5
	SIEG	
BC558	♦MULB	108 - 6
♦PHIC	♦RTCF	
BC558A	♦ALGG	108 - 7
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC558B	♦ALGG	108 - 8
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC558C	♦ALGG	108 - 9
	SIEG	
BC558VI	♦ALGG	108 - 10
	SIEG	
BC559	♦MULB	108 - 11
♦PHIC	♦RTCF	
BC559A	♦ALGG	108 - 12
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC559B	♦ALGG	108 - 13
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
BC559C	♦ALGG	108 - 14
	SIEG	
BC560A	♦ALGG	108 - 15
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BC560B	♦ALGG	108 - 16
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BC560C	♦ALGG	108 - 17
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BC582	♦TIID	126 - 49
BC582A	♦TIID	126 - 50
BC582B	♦TIID	126 - 51
BC583	♦TIID	126 - 52
BC583A	♦TIID	126 - 53
BC583B	♦TIID	126 - 54
BC583C	♦TIID	126 - 55
BC584	♦TIID	126 - 56
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♦RTCF	SIEG	
BC635/636	♦RTCF	268 - 63
BC636	PHIC	110 - 46
♦RTCF	SIEG	
BC637	PHIC	146 - 75
♦RTCF	SIEG	
BC637/638	♦RTCF	268 - 64
BC638	PHIC	110 - 47
♦RTCF	SIEG	
BC639	PHIC	146 - 76
♦RTCF	SIEG	
BC639/640	♦RTCF	268 - 65
BC640	PHIC	110 - 48
♦RTCF	SIEG	
BC682	TIIB	126 - 59
BCW25	♦TIIB	138 - 1
		271 - 63
BCW26	♦TIIB	138 - 2
BCW29	PHIC	94 - 53
♦PHIN	♦VALG	
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	♦RTCF	
BCW30	PHIC	94 - 54
♦PHIN	♦VALG	
BCW30R	♦MULB	96 - 5
	♦RTCF	
BCW31	PHIC	112-108
♦PHIN	♦VALG	
BCW31R	♦MULB	119 - 1
	♦RTCF	
BCW32	PHIC	112-109
♦PHIN	♦VALG	
BCW32R	♦MULB	119 - 2
	♦RTCF	
BCW33	PHIC	112-110
♦PHIN	♦VALG	
BCW33R	♦MULB	119 - 3
	♦RTCF	
BCW34	TIIB	133 - 50
BCW35	TIIB	103-109
BCW36	TIIB	126 - 60
BCW37	TIIB	100 - 17
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BCW45	SGAI	110 - 99
BCW46	♦VALG	119 - 4
BCW46A	♦PHIN	119 - 5
	♦VALG	
BCW46B	♦PHIN	119 - 6
	♦VALG	
BCW47	♦VALG	119 - 7
BCW47A	♦PHIN	119 - 8
	♦VALG	
BCW47B	♦PHIN	119 - 9
	♦VALG	
BCW48	♦VALG	119 - 10
BCW48A	♦PHIN	119 - 11
	♦VALG	
BCW48B	♦PHIN	119 - 12
	♦VALG	
BCW48C	♦PHIN	119 - 13
	♦VALG	
BCW49	♦VALG	119 - 14
BCW49B	♦PHIN	119 - 15
	♦VALG	
BCW49C	♦PHIN	119 - 16
	♦VALG	
BCW54	♦ITTB	128 - 28
BCW55	♦ITTB	128 - 29
BCW56A	♦PHIN	96 - 6
RCA	♦VALG	
BCW57A	♦PHIN	96 - 7
RCA	♦VALG	
BCW57B	♦VALG	96 - 8
BCW58A	♦PHIN	96 - 9
RCA	♦VALG	
BCW58B	♦PHIN	96 - 10
	♦VALG	
BCW59A	♦PHIN	96 - 11
RCA	♦VALG	
BCW59B	♦PHIN	96 - 12
	♦VALG	
BCW60AA	♦SIEG	114 - 95
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BCW60AB	♦SIEG	114 - 96
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BCW60AC	♦SIEG	114 - 97
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BCW60AD	♦SIEG	114 - 98
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BCW61BC	♦SIEG	95 - 57
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BCW61BD	♦SIEG	95 - 58
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BCW62B	♦TIID	96 - 75
BCW63	♦TIID	96 - 76
BCW63A	♦TIID	96 - 77
BCW63B	♦TIID	96 - 78
BCW63C	♦TIID	96 - 79
BCW64	♦TIID	96 - 80
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BCW64B	♦TIID	96 - 82
BCW64C	♦TIID	96 - 83
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BCW66EH	SIEG	131 - 83
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BCW67DA	SIEG	102 - 75
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BCW67DB	SIEG	102 - 76
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BCW67DC	SIEG	102 - 77
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BCW68DF	SIEG	102 - 78
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BCW68DG	SIEG	102 - 79
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BCW68DH	SIEG	102 - 80
		254 - 66
BCW69	♦PHIN	95 - 47
BCW69R	♦MULB	96 - 13
	RTCF	
BCW70	♦PHIN	95 - 48
BCW70R	♦MULB	96 - 14
	RTCF	
BCW71	♦PHIN	115 - 7
BCW71R	♦MULB	119 - 17
	RTCF	
BCW72	♦PHIN	115 - 8
BCW72R	♦MULB	119 - 18
	RTCF	
BCW73-16	♦SIEG	136-110
		254 - 67
BCW73-25	♦SIEG	137 - 1
		254 - 68
BCW73-40	♦SIEG	137 - 2
		254 - 69
BCW74-16	♦SIEG	137 - 3
		254 - 70
BCW74-25	♦SIEG	137 - 4
		254 - 71
BCW74-40	♦SIEG	137 - 5
		254 - 72
BCW75-10	♦SIEG	107 - 33
		254 - 73
BCW75-16	♦SIEG	107 - 34
		254 - 74
BCW75-25	♦SIEG	107 - 35
		254 - 75
BCW76-10	♦SIEG	107 - 36
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BCW76-16	♦SIEG	107 - 37
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BCW76-25	♦SIEG	107 - 38
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BCW77-16	♦SIEG	148 - 44
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BCW77-25	♦SIEG	148 - 45
		254 - 80
BCW77-40	♦SIEG	148 - 46
		254 - 81
BCW78-16	♦SIEG	148 - 47
		254 - 82
BCW78-25	♦SIEG	148 - 48
		254 - 83
BCW78-40	♦SIEG	148 - 49
		254 - 84
BCW79-10	♦SIEG	111 - 7
		254 - 85
BCW79-16	♦SIEG	111 - 8
		254 - 86
BCW79-25	♦SIEG	111 - 9
		254 - 87
BCW80-10	♦SIEG	111 - 10
		254 - 88
BCW80-16	♦SIEG	111 - 11
		254 - 89
BCW80-25	♦SIEG	111 - 12
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BCW82	♦TIID	121-104
BCW82A	♦TIID	121-105
BCW82B	♦TIID	121-106
BCW83	♦TIID	121-107
BCW83A	♦TIID	121-108
BCW83B	♦TIID	121-109
BCW83C	♦TIID	121-110
BCW84	♦TIID	122 - 1
BCW84B	♦TIID	122 - 2
BCW84C	♦TIID	122 - 3
BCW85	TIID	101 - 49
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BCW86	TIID	101 - 50
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BCW88	♦SIEG	95 - 71
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BCW90A	MISI	142 - 42
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BCW90B	MISI	142 - 43
♦NPC	THCF	
BCW90C	MISI	142 - 44
♦NPC	THCF	
BCW90K	MISI	144 - 45
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BCW90KA	MISI	142 - 45
♦NPC	THCF	
BCW90KB	MISI	142 - 46
♦NPC	THCF	
BCW90KC	MISI	142 - 47
♦NPC	THCF	
BCW91	MISI	142 - 41
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BCW91B	MISI	142 - 49
♦NPC	THCF	
BCW91K	MISI	144 - 46
	THCF	
BCW91KA	MISI	142 - 50
♦NPC	THCF	
BCW91KB	MISI	142 - 51
♦NPC	THCF	
BCW92	MISI	109 - 13
NPC	THCF	
BCW92A	MISI	109 - 14
♦NPC	THCF	
BCW92B	MISI	109 - 15
♦NPC	THCF	
BCW92K	MISI	110 - 83
	THCF	
BCW92KA	MISI	109 - 16
♦NPC	THCF	
BCW92KB	MISI	109 - 17
♦NPC	THCF	
BCW93	MISI	109 - 18
NPC	THCF	
BCW93A	MISI	109 - 19
♦NPC	THCF	
BCW93B	MISI	109 - 20
♦NPC	THCF	
BCW93K	MISI	110 - 84
	THCF	
BCW93KA	MISI	109 - 21
♦NPC	THCF	
BCW93KB	MISI	109 - 22
♦NPC	THCF	
BCW94	MISI	139 - 95
	THCF	
BCW94A	MISI	139 - 98
♦NPC	THCF	
BCW94B	MISI	139 - 99
♦NPC	THCF	
BCW94C	MISI	139-100
♦NPC	THCF	
BCW94K	MISI	143 - 43
	THCF	
BCW94KA	MISI	139-101
♦NPC	THCF	
BCW94KB	MISI	139-102
♦NPC	THCF	
BCW94KC	MISI	139-103
♦NPC	THCF	
BCW95	MISI	139 - 96
	THCF	
BCW95A	MISI	139-104
♦NPC	THCF	
BCW95B	MISI	139-105
♦NPC	THCF	
BCW95K	MISI	143 - 44
	THCF	
BCW95KA	MISI	139-106
♦NPC	THCF	
BCW95KB	MISI	139-107
♦NPC	THCF	
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BCW96A	MISI	108 - 41
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BCW96B	MISI	108 - 42
♦NPC	THCF	
BCW96K	MISI	109-110
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BCW96KA	MISI	108 - 43
♦NPC	THCF	
BCW96KB	MISI	108 - 44
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BCW97	MISI	108 - 45
	THCF	
BCW97A	MISI	108 - 46
♦NPC	THCF	
BCW97B	MISI	108 - 47
♦NPC	THCF	
BCW97K	MISI	110 - 1
	THCF	
BCW97KA	MISI	108 - 48
♦NPC	THCF	
BCW97KB	MISI	108 - 49
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BCW98A	♦ALGG	112 - 17
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BCW98B	♦ALGG	112 - 18
		256 - 16
BCW98C	♦ALGG	112 - 19
		256 - 17
BCW98D	♦ALGG	112 - 20
		256 - 18
BCW99A	♦ALGG	94 - 17
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BCW99B	♦ALGG	94 - 18
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BCW99C	♦ALGG	94 - 19
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BCX10	SGAI	176 - 12
BCX17	♦MULB	101-104
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BCX17R	♦RTCF	101-105
BCX18	♦MULB	101-106
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BCX1BR	♦RTCF	101-107
BCX19	♦MULB	130 - 33
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BCX19R	♦RTCF	130 - 34
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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BCX40	SGAI	216 - 75
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		256 - 4
BCX58VII	♦SIEG	137 - 7
		256 - 5
BCX58VIII	♦SIEG	137 - 8
		256 - 6
BCX58X	♦SIEG	137 - 9
		256 - 7
BCX59IX	♦SIEG	137 - 10
		256 - 8
BCX59VII	♦SIEG	137 - 11
		256 - 9
BCX59VIII	♦SIEG	137 - 12
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BCX59X	♦SIEG	137 - 13
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BCX70AJ	♦SIEG	114 -101
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BCX70AK	♦SIEG	114 -102
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BCX71BG	♦SIEG	95 - 59
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BCX71BH	♦SIEG	95 - 60
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BCX71BJ	♦SIEG	95 - 61
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BCX71BK	♦SIEG	95 - 62
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BCX74-25	♦SIEG	143 - 1
		254 - 95
BCX74-40	♦SIEG	143 - 2
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BCX75-16	♦SIEG	109 - 62
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BCX75-25	♦SIEG	109 - 63
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BCX75-40	♦SIEG	109 - 64
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BCX78IX	♦SIEG	107 - 40
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BCX78VII	♦SIEG	107 - 41
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BCX79IX	♦SIEG	107 - 44
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BCX79VII	♦SIEG	107 - 45
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RTCF	TADI	
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BCY54	♦MULB	107 - 26
PHIC	♦PHIN	
RTCF	♦VALG	
BCY55	♦NTLB	125 - 74
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BCY56	ELMA	127 - 74
NSC	♦PHIN	
RTCF	TADI	
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BCY57	ELMA	128 - 59
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RTCF	TADI	
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BCY58	ELMA	131 - 47
NSC	RTCF	
SGAI	SIEG	
TADI	TIIF	
	♦VALG	
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	TIIF	256 - 19
BCY58B	INTG	148 - 81
	TIIF	256 - 20
BCY58C	INTG	148 - 82
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	♦VALG	
BCY58VII	ALGG	131 - 33
ELMA	NSC	262 - 49
♦PHIN	SIEG	
	♦VALG	
BCY58VIII	ALGG	131 - 34
ELMA	NSC	262 - 50
♦PHIN	SIEG	
	♦VALG	
BCY58X	ELMA	131 - 35
NSC	♦PHIN	262 - 51
SIEG	♦VALG	
BCY59	ELMA	131 - 48
NSC	RTCF	
SGAI	SIEG	
TADI	TIIB	
TIIF	♦VALG	
BCY59A	INTG	135 - 43
TIIB	TIIF	
BCY59B	INTG	135 - 44
TIIB	TIIF	
BCY59C	INTG	135 - 45
TIIB	TIIF	
BCY59D	INTG	135 - 46
TIIB	TIIF	
BCY59IX	ALGG	131 - 36
ELMA	NSC	262 - 52
♦PHIN	SIEG	
	♦VALG	
BCY59VII	ALGG	131 - 37
ELMA	NSC	262 - 53
♦PHIN	SIEG	
	♦VALG	
BCY59VIII	ALGG	131 - 38
ELMA	NSC	262 - 54
♦PHIN	SIEG	
	♦VALG	
BCY59X	ALGG	131 - 39
ELMA	NSC	262 - 55
♦PHIN	SIEG	
	♦VALG	
BCY65	TADI	131 - 43
	TIIF	
BCY65E	SIEG	148 - 73
		262 - 4
BCY65EIX	SIEG	188 - 25
		262 - 5
BCY65EVII	SIEG	188 - 26
		262 - 6
BCY65EVIII	SIEG	188 - 27
		262 - 7
BCY65IX	♦VALG	131 - 44
		256 - 12
BCY65VII	♦VALG	131 - 45
		256 - 13
BCY65VIII	♦VALG	131 - 46
		256 - 14
BCY66	SIEG	188 -109
TADI	TIIF	
BCY67	SIEG	111 - 13
	TIIF	
BCY69	MISI	126 - 61
NPC	THCF	
BCY70	ELMA	102 -102
ITTB	MEHK	258 - 82
♦MULB	NASB	
NSC	♦NTLB	
PHIC	♦PHIN	

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TYPE No.	MFRS	Pg&Line
BCY70		
(cont.)	♦RTCF	
SGAI	TADI	
TIIB	TIIF	
	♦VALG	
BCY71	ELMA	102 -103
ITTB	MEHK	
♦MULB	NASB	
NSC	♦NTLB	
PHIC	♦PHIN	
♦RTCF	SGAI	
TADI	TIIB	
TIIF	♦VALG	
BCY71A	ITTB	103 - 3
♦MULB	NSC	
	TADI	
BCY72	ELMA	102 -104
ITTB	MEHK	258 - 83
♦MULB	NASB	
NSC	♦NTLB	
PHIC	♦PHIN	
♦RTCF	SGAI	
TADI	TIIB	
TIIF	♦VALG	
BCY77IX	SIEG	174 - 99
		258 - 4
BCY77VII	SIEG	174 -100
		258 - 5
BCY77VIII	SIEG	174 -101
		258 - 6
BCY78	INTG	101 - 51
SGAI	SIEG	
TADI	TIIF	
BCY78IX	ALGG	102 - 4
ELMA	SIEG	258 - 7
	♦VALG	
BCY78VII	ALGG	102 - 5
ELMA	SIEG	258 - 8
	♦VALG	
BCY78VIII	ALGG	102 - 6
ELMA	SIEG	258 - 9
	♦VALG	
BCY78X	ELMA	102 - 7
SIEG	♦VALG	258 - 10
BCY79	INTG	101 - 52
MEHK	SGAI	
SIEG	TADI	
	TIIF	
BCY79IX	ALGG	102 - 8
ELMA	SIEG	258 - 11
	♦VALG	
BCY79VII	ALGG	102 - 9
ELMA	SIEG	258 - 12
	♦VALG	
BCY79VIII	ALGG	102 - 10
ELMA	SIEG	258 - 13
	♦VALG	
BCY85	TIID	126 -106
BCY86	TIID	126 -107
BCY87	♦MULB	114 - 37
PHIC	♦PHIN	271 - 65
RTCF	TADI	
TIIB	♦VALG	
BCY88	♦MULB	114 - 38
PHIC	♦PHIN	271 - 66
RTCF	TADI	
TIIB	♦VALG	
BCY89	♦MULB	114 - 39
PHIC	♦PHIN	271 - 67
RTCF	TADI	
TIIB	♦VALG	
BCY90	♦TAGS	102 - 46
BCY90B	♦TAGS	105 - 90
BCY91	♦TAGS	102 - 47
BCY91B	♦TAGS	105 - 91
BCY92	♦TAGS	102 - 48
		244 - 41
BCY92B	♦TAGS	105 - 92
		244 - 42
BCY93	♦TAGS	102 - 49
BCY93B	♦TAGS	105 - 93
BCY94	♦TAGS	102 - 50
BCY94B	♦TAGS	105 - 94
BCY95	♦TAGS	102 - 51
		244 - 43
BCY95B	♦TAGS	105 - 95
		244 - 44
BCY96	♦TAGS	102 - 52
BCY96B	♦TAGS	105 - 96
BCY97	♦TAGS	102 - 53
BCY97B	♦TAGS	105 - 97
BCY98B	TAGS	105 - 98
BCZ10	♦PHIN	97 - 28
BCZ11	♦PHIN	97 - 34
BCZ12	♦PHIN	97 - 29
BD111	SGAI	206 - 69
BD111A	SGAI	186 -107
BD115	MEHK	200 - 88
♦MULB	PHIC	
♦PHIN	♦RTCF	
TIIB	♦VALG	
BD117	SGAI	210 - 29
BD121	♦SSI	210 - 55
		252 - 70
BD123	♦SSI	210 - 56
		252 - 71
BD124	♦MULB	203 - 19
	♦PHIN	255 - 79
BD127	ALGG	205 - 42
BD128	ALGG	205 - 43
BD129	ALGG	205 - 44
BD130	MISI	218 - 87
SIEG	THCF	

TYPE No.	MFRS	Pg&Line
BD131	♦APX	204 -108
♦MULB	PHIC	
♦PHIN	PIHS	
RTCF	♦VALG	
BD131/BD132	♦APX	268 - 66
	♦PHIN	
BD131A	PIHS	202 - 68
BD132	♦APX	180 - 4
♦MULB	PHIC	
♦PHIN	PIHS	
RTCF	♦VALG	
BD132A	PIHS	180 - 15
BD133	♦MULB	204 -109
♦PHIN	PIHS	
BD135△	SIEG	201 - 60
BD135⍁	♦ALGG	201 - 61
♦APX	ELMA	
MISI	♦MULB	
♦NPC	PHIC	
♦PHIN	PIHS	
RTCF	THCF	
TIID	♦VALG	
BD135-BD136	RTCF	268 - 67
BD135-BD136MP		271 - 68
	♦APX	
BD136△	SIEG	178 - 70
BD136⍁	♦ALGG	178 - 71
♦APX	ELMA	
ETIF	MISI	
♦MULB	♦NPC	
PHIC	♦PHIN	
PIHS	RTCF	
THCF	TIID	
	♦VALG	
BD137△	SIEG	201 - 62
BD137⍁	♦ALGG	201 - 63
♦APX	ELMA	
ETIF	MISI	
♦MULB	♦NPC	
PHIC	♦PHIN	
PIHS	RTCF	
THCF	TIID	
	♦VALG	
BD138△	SIEG	178 - 72
BD138⍁	♦ALGG	178 - 73
♦APX	ELMA	
ETIF	MISI	
♦MULB	♦NPC	
PHIC	♦PHIN	
PIHS	RTCF	
THCF	TIID	
	♦VALG	
BD137-BD138	RTCF	268 - 68
BD137-BD138MP		271 - 69
	♦APX	
BD139⍁	♦ALGG	201 - 64
♦APX	ELMA	
ETIF	MISI	
♦MULB	NPC	
PHIC	♦PHIN	
RTCF	SIEG	
THCF	TIID	
	♦VALG	
BD139-BD140	RTCF	268 - 69
BD139-BD140MP		271 - 70
	♦APX	
BD140⍁	♦ALGG	178 - 74
♦APX	ELMA	
ETIF	MISI	
♦MULB	NPC	
PHIC	♦PHIN	
RTCF	SIEG	
THCF	TIID	
	♦VALG	
BD141	SGAI	218 - 88
BD142	MISI	218 - 89
SGAI	THCF	
BD144	♦PHIN	206 - 70
BD157	MISI	204 - 68
♦NPC	THCF	
BD158	MISI	204 - 69
♦NPC	THCF	
BD159	MISI	204 - 70
♦NPC	THCF	
BD160	TADI	213 - 67
BD162	SGAI	204 -110
BD163	SGAI	205 - 1
BD165	ALGG	204 - 71
MISI	♦THCF	
	♦VALG	
BD166	ALGG	179 - 63
MISI	♦THCF	
	♦VALG	
BD167	ALGG	204 - 72
MISI	♦THCF	
	♦VALG	
BD168	ALGG	179 - 64
MISI	♦THCF	
	♦VALG	
BD169	ALGG	204 - 73
MISI	♦THCF	
	♦VALG	
BD170	ALGG	179 - 65
MISI	♦THCF	
	♦VALG	
BD175	ALGG	208 - 21
BD176	ALGG	181 - 21
BD177	ALGG	208 - 22
BD178	ALGG	181 - 22
BD179	ALGG	208 - 23
BD180	ALGG	181 - 23
BD181	MISI	218 - 90
NASB	♦PHIN	271 - 71

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TYPE No.	MFRS	Pg&Line
BD181		
(cont.)	RTCF	
THCF	♦VALG	
BD182	MISI	218 - 91
NASB	♦PHIN	271 - 72
RTCF	THCF	
	♦VALG	
BD183	MISI	218 - 92
NASB	♦PHIN	271 - 73
RTCF	THCF	
	♦VALG	
BD191	SGAI	208 - 67
BD192	SGAI	208 - 68
BD193	SGAI	208 - 69
BD201	♦APX	214 - 76
♦MULB	PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BD201-BD202	RTCF	268 - 70
BD202	♦APX	183 - 55
♦MULB	PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BD203	♦APX	214 - 77
♦MULB	PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BD203-BD204	RTCF	268 - 71
BD204	♦APX	183 - 56
♦MULB	PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BD213-45	ALGG	220 - 59
BD213-45/BD214-45		
	ALGG	268 - 72
BD213-60	ALGG	220 - 60
BD213-60/BD214-60		
	ALGG	268 - 73
BD213-80	ALGG	220 - 61
BD213-80/BD214-80		
	ALGG	268 - 74
BD214-45	ALGG	184 - 75
BD214-60	ALGG	184 - 76
BD214-80	ALGG	184 - 77
BD215	SGAI	203 - 41
BD216	SGAI	203 -103
BD226	♦APX	203 - 72
PHIC	♦PHIN	
PIHS	♦RTCF	
	♦VALG	
BD226-BD227	♦RTCF	268 - 75
BD227	♦APX	179 - 33
PHIC	♦PHIN	
PIHS	♦RTCF	
	♦VALG	
BD228	♦APX	203 - 73
PHIC	♦PHIN	
PIHS	♦RTCF	
	♦VALG	
BD228-BD229	♦RTCF	268 - 76
BD229	♦APX	179 - 34
PHIC	♦PHIN	
PIHS	♦RTCF	
	♦VALG	
BD230	♦APX	203 - 74
PHIC	♦PHIN	
PIHS	♦RTCF	
	♦VALG	
BD230-BD231	♦RTCF	268 - 77
BD231	♦APX	179 - 35
PHIC	♦PHIN	
PIHS	♦RTCF	
	♦VALG	
BD232	♦MULB	201 -103
♦PHIN	RTCF	
	♦VALG	
BD233	ALGG	206 - 71
♦APX	ELMA	
INTG	MISI	
♦MULB	PHIC	
♦PHIN	♦RTCF	
♦SIEG	♦THCF	
	♦VALG	
BD235	ALGG	206 - 72
♦APX	ELMA	
INTG	MISI	
♦MULB	PHIC	
♦PHIN	♦RTCF	
♦SIEG	♦THCF	
	♦VALG	
BD235-BD236	♦RTCF	268 - 79
BD236	ALGG	180 - 41
♦APX	ELMA	
INTG	MISI	
♦MULB	PHIC	
♦PHIN	♦RTCF	
♦SIEG	♦THCF	
	♦VALG	
BD237	ALGG	206 - 73
♦APX	ELMA	
INTG	MISI	
♦MULB	PHIC	
♦PHIN	♦RTCF	
♦SIEG	♦THCF	
	♦VALG	
BD237-BD238	♦RTCF	268 - 80

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
BD238	ALGG	180- 42
♦APX	ELMA	
INTG	MISI	
♦MULB	PHIC	
♦PHIN	♦RTCF	
♦SIEG	♦THCF	
	♦VALG	
BD239	TIID	207-102
		240- 36
BD239A	TIID	207-103
		240- 37
BD239B	TIID	207-104
		240- 38
BD239C	TIID	207-105
		240- 39
BD240	TIID	180-110
		240- 15
BD240A	TIID	181- 1
		240- 16
BD240B	TIID	181- 2
		240- 17
BD240C	TIID	181- 3
		240- 18
BD241	MISI	210- 84
THCF	TIID	240- 40
BD241A	TIID	210- 85
		240- 41
BD241B	TIID	210- 86
		240- 42
BD241C	TIID	210- 87
		240- 43
BD242	MISI	182- 24
THCF	TIID	240- 19
BD242A	TIID	182- 25
		240- 20
BD242B	TIID	182- 26
		240- 21
BD242C	TIID	182- 27
		240- 22
BD243	TIID	216- 37
		240- 44
BD243A	TIID	216- 38
		240- 45
BD243B	TIID	216- 39
		240- 46
BD243C	TIID	216- 40
		240- 47
BD244	TIID	183-104
		240- 23
BD244A	TIID	183-105
		240- 24
BD244B	TIID	183-106
		240- 25
BD244C	TIID	183-107
		240- 26
BD245	TIID	217- 41
		240- 48
BD245A	TIID	217- 42
		240- 49
BD245B	TIID	217- 43
		240- 50
BD245C	TIID	217- 44
		240- 51
BD246	TIID	184- 40
		240- 27
BD246A	TIID	184- 41
		240- 28
BD246B	TIID	184- 42
		240- 29
BD246C	TIID	184- 43
		240- 30
BD249	TIID	224- 28
BD249A	TIID	224- 29
BD249B	TIID	224- 30
BD249C	TIID	224- 31
BD250	TIID	185- 31
		240- 31
BD250A	TIID	185- 32
		240- 32
BD250B	TIID	185- 33
		240- 33
BD250C	TIID	185- 34
		240- 34
BD262	♦MULB	282- 19
PHIC	♦RTCF	
	♦VALG	
BD262A	♦MULB	282- 20
PHIC	♦RTCF	
	♦VALG	
BD262B	♦MULB	282- 21
	♦RTCF	
BD263	♦MULB	282- 22
PHIC	♦RTCF	
	♦VALG	
BD263A	♦MULB	282- 23
PHIC	♦RTCF	
	♦VALG	
BD263B	♦MULB	282- 24
	♦RTCF	
BD266	PHIC	282- 25
♦RTCF	♦VALG	
BD266/267	RTCF	268- 81
BD266A	PHIC	282- 26
♦RTCF	♦VALG	
BD266A/267A	RTCF	268- 82
BD266B	PHIC	282- 27
	♦RTCF	
BD267	PHIC	282- 28
♦RTCF	♦VALG	
BD267A	PHIC	282- 29
♦RTCF	♦VALG	
BD267B	PHIC	282- 30
	♦RTCF	

TYPE No.	MFRS	Pg&Line
BD301	MISI	214- 47
	♦THCF	
BD302	MISI	183- 24
	♦THCF	
BD303	MISI	214- 48
	♦THCF	
BD304	MISI	183- 25
	♦THCF	
BD410	♦TIID	206- 74
BD433	ALGG	209- 76
ELMA	INTG	
MISI	♦MULB	
PHIC	♦PHIN	
♦RTCF	♦SIEG	
♦THCF	♦VALG	
BD433-BD434	PHIN	268- 83
	♦RTCF	
BD434	ALGG	181- 48
ELMA	INTG	
MISI	♦MULB	
PHIC	♦RTCF	
♦SIEG	♦THCF	
	♦VALG	
BD435	ALGG	209- 77
ELMA	INTG	
MISI	♦MULB	
PHIC	♦PHIN	
♦RTCF	♦SIEG	
♦THCF	♦VALG	
BD435-BD436	PHIN	268- 84
	♦RTCF	
BD436	ALGG	181- 49
ELMA	INTG	
MISI	♦MULB	
PHIC	♦PHIN	
♦RTCF	♦SIEG	
♦THCF	♦VALG	
BD437	ALGG	209- 78
ELMA	INTG	
♦MULB	PHIC	
♦PHIN	RTCF	
♦SIEG	♦VALG	
BD437-BD438	PHIN	268- 85
	RTCF	
BD438	ALGG	181- 50
ELMA	INTG	
♦MULB	PHIC	
♦PHIN	RTCF	
♦SIEG	♦VALG	
BD439	INTG	209- 79
	♦SIEG	
BD440	INTG	181- 66
	♦SIEG	
BD441	INTG	210- 30
	♦SIEG	
BD442	INTG	181- 67
	♦SIEG	
BD461	♦TIID	210- 31
BD462	♦TIID	181- 68
BD463	♦TIID	210- 32
BD464	♦TIID	181- 69
BD585	ALGG	211-103
BD585-BD586	ALGG	268- 86
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BD588	ALGG	182- 71
BD589	ALGG	211-105
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BD590	ALGG	182- 72
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BD597	ALGG	214- 44
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BD598	ALGG	183- 22
BD599	ALGG	214- 45
BD599-BD600	ALGG	268- 91
BD600	ALGG	183- 23
BD633	♦TIID	208- 24
BD634	♦TIID	181- 24
BD635	♦TIID	208- 25
BD636	♦TIID	181- 25
BD637	♦TIID	208- 26
BD638	♦TIID	181- 26
BD643	SIEG	282- 31
BD644	SIEG	282- 32
BD645	SIEG	282- 33
BD646	SIEG	282- 34
BD647	SIEG	282- 35
BD648	SIEG	282- 36
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BD650	SIEG	282- 38
BD651	SIEG	282- 39
BD652	SIEG	282- 40
BD675	MISI	282- 41
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BD676	MISI	282- 42
SIEG	THCF	
	♦VALG	
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SIEG	THCF	
	♦VALG	
BD678	MISI	282- 44
SIEG	THCF	
	♦VALG	
BD679	MISI	282- 45
SIEG	THCF	
	♦VALG	
BD680	MISI	282- 46
SIEG	THCF	
	♦VALG	
BD733	♦TIID	210- 88

TYPE No.	MFRS	Pg&Line
BD734	♦TIID	182- 28
BD735	♦TIID	210- 89
BD736	♦TIID	182- 29
BD737	♦TIID	210- 90
BD738	♦TIID	182- 30
BDX10	SGAI	218- 93
BDX11	SGAI	218- 94
BDX12	SGAI	216- 82
BDX13	SGAI	218- 95
BDX14	MISI	180- 5
♦NPC	♦THCF	
BDX16	MISI	179- 36
NPC	♦THCF	
BDX18	MISI	184- 64
♦NPC	♦THCF	
BDX20	MISI	184- 65
	♦THCF	
BDX22	SGAI	208- 70
BDX23	SGAI	218- 96
BDX24	SGAI	205- 56
BDX27-6	♦SIEG	180- 90
BDX27-10	♦SIEG	180- 91
BDX27-16	♦SIEG	180- 92
BDX28-6	♦SIEG	180- 93
BDX28-10	♦SIEG	180- 94
BDX28-16	♦SIEG	180- 95
BDX29-6	♦SIEG	180- 96
BDX29-10	♦SIEG	180- 97
BDX30-6	♦SIEG	180- 98
BDX30-10	♦SIEG	180- 99
BDX35	♦MULB	206- 75
BDX36	♦MULB	206- 76
BDX37	♦MULB	206- 77
BDX40	SGAI	222- 99
BDX41	SGAI	222-100
BDX42	♦MULB	262- 38
		282- 47
BDX43	♦MULB	262- 39
		282- 48
BDX44	♦MULB	262- 40
		282- 49
BDX50	SGAI	222-101
BDX51	SGAI	220- 38
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PHIC	♦RTCF	
	♦VALG	
BDX62/63	RTCF	268- 92
BDX62A	♦MULB	282- 51
PHIC	♦RTCF	
	♦VALG	
BDX62A/63A	RTCF	268- 93
BDX62B	♦MULB	282- 52
♦RTCF	♦VALG	
BDX63	♦MULB	282- 53
PHIC	♦RTCF	
	♦VALG	
BDX63A	♦MULB	282- 54
PHIC	♦RTCF	
	♦VALG	
BDX63B	♦MULB	282- 55
♦RTCF	♦VALG	
BDX64	♦MULB	282- 56
PHIC	♦RTCF	
	♦VALG	
BDX64/65	RTCF	268- 94
BDX64A	♦MULB	282- 57
PHIC	♦RTCF	
	♦VALG	
BDX64A/65A	RTCF	268- 95
BDX64B	♦RTCF	282- 58
	♦VALG	
BDX65	♦MULB	282- 59
PHIC	RTCF	
	♦VALG	
BDX65A	♦MULB	282- 60
PHIC	RTCF	
	♦VALG	
BDX65B	RTCF	282- 61
	♦VALG	
BDX66	♦MULB	282- 62
PHIC	RTCF	
	♦VALG	
BDX66A	♦MULB	282- 63
PHIC	RTCF	
	♦VALG	
BDX66B	PHIC	282- 64
RTCF	♦VALG	
BDX67	♦MULB	282- 65
PHIC	RTCF	
	♦VALG	
BDX67A	♦MULB	282- 66
PHIC	RTCF	
	♦VALG	
BDX67B	PHIC	282- 67
RTCF	♦VALG	
BDX77	♦MULB	214- 78
♦RTCF	♦VALG	
BDX78	♦MULB	183- 57
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BDY19	ETIF	218- 99
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BDY24	ETIF	230- 59
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	THCF	
BDY25	MISI	230- 60
♦NPC	THCF	
BDY26	ETIF	230- 61
MISI	♦NPC	
	THCF	
BDY27	ETIF	230- 62
MISI	♦NPC	
	THCF	
BDY28	ETIF	230- 63
MISI	♦NPC	
	THCF	
BDY34	ALGG	206- 83
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BDY38	ELMA	218-101
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PHIC	♦PHIN	
RTCF	♦VALG	
BDY39	ETIF	218-102
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MISI	♦NPC	
	♦THCF	
BDY54	ETIF	212- 62
MISI	♦NPC	
	♦THCF	
BDY55	ETIF	228-105
MISI	♦NPC	
	THCF	
BDY56	ETIF	228-106
MISI	♦NPC	
	THCF	
BDY57	ETIF	226- 4
MISI	♦NPC	
	THCF	
BDY58	ETIF	226- 5
MISI	♦NPC	
	THCF	
BDY60	♦MULB	206- 84
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BDY61	♦MULB	206- 85
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BDY72	MISI	203- 75
	♦THCF	
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MISI	NPC	
	♦THCF	
BDY74	ETIF	218-104
MISI	♦THCF	
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MISI	♦THCF	
BDY77	MISI	222- 68
	♦THCF	
BDY78	MISI	203- 76
♦NPC	♦THCF	
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♦NPC	♦THCF	
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BDY81	MISI	209-110
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	THCF	
BDY83	MISI	181- 60
	THCF	
BDY90	♦APX	213- 68
♦MULB	♦PHIN	253- 20
RTCF	♦VALG	
BDY91	♦APX	213- 69
♦MULB	♦PHIN	253- 21
RTCF	♦VALG	
BDY92	♦APX	213- 70
♦MULB	♦PHIN	253- 22
RTCF	♦VALG	
BDY93	♦APX	213- 71
♦MULB	♦PHIN	242- 87
♦RTCF	♦VALG	
BDY94	♦APX	213- 72
♦MULB	♦PHIN	242- 88
♦RTCF	♦VALG	
BDY95	♦APX	213- 73
♦MULB	♦PHIN	242- 89
♦RTCF	♦VALG	
BDY96	♦APX	218-105
♦MULB	♦PHIN	243- 58
RTCF	♦VALG	
BDY97	♦APX	218-106
♦MULB	♦PHIN	243- 70
RTCF	♦VALG	
BDY98	♦APX	218-107
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BDY99	♦RTCF	218-108
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TYPE No.	MFRS	Pg&Line
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PHIC	♦PHIN	
RTCF	TADI	
	♦VALG	
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BF137	ITTB	143- 42
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BF152	MEHK	120- 14
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BF153	MEHK	119- 19
NSC	SGAI	
	TADI	
BF154	MEHK	128- 86
	SGAI	
BF155	SGAI	116- 15
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BF155R,S	♦NPC	148- 79
BF156	MEHK	145- 71
	SGAI	
BF157	MEHK	145- 72
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BF158	MEHK	120- 15
SGAI	TADI	
BF159	MEHK	120- 16
	SGAI	
BF160	MEHK	119- 92
NSC	SGAI	
BF161	SGAI	116- 13
BF162	SGAI	119- 93
BF163	SGAI	119- 94
BF164	SGAI	119- 95
BF165	SGAI	128- 30
BF166	SGAI	116- 9
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MISI	♦MULB	
NPC	NSC	
PHIC	♦PHIN	
RTCF	SGAI	
TADI	THCF	
TIIF	♦VALG	
BF173	ALGG	123-106
BELI	ELMA	
MISI	♦MULB	
NPC	NSC	
PHIC	♦PHIN	
RTCF	SGAI	
TADI	THCF	
TIIF	♦VALG	
BF174	SGAI	146- 20
	TIIF	
BF175	SGAI	116- 10
BF176	SGAI	123- 30
BF177	MEHK	146- 70
♦MULB	♦PHIN	
RTCF	SGAI	
TADI	♦TIIB	
	TIIF	
BF178	MEHK	146- 71
MISI	♦MULB	
♦PHIN	RTCF	
SGAI	TADI	
THCF	♦TIIB	
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BF179	MEHK	146- 72
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♦PHIN	RTCF	
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THCF	♦TIIB	
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BF179C	MISI	191- 40
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♦NPC	PHIC	
♦PHIN	RTCF	
TADI	♦THCF	
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	♦VALG	
BF181	ELMA	115- 50
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♦NPC	PHIC	
♦PHIN	RTCF	
♦THCF	TIIF	
	♦VALG	
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MISI	♦MULB	
♦NPC	PHIC	
♦PHIN	RTCF	
THCF	♦VALG	
BF183	ELMA	115- 77
MISI	♦MULB	
♦NPC	PHIC	
♦PHIN	RTCF	
TADI	THCF	
	♦VALG	
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MULB	PHIC	
♦PHIN	RTCF	
	♦VALG	
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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BF194	ALGG	121 - 92
BELI	ELMA	
♦MULB	♦PHIN	
RTCF	SIEG	
	♦VALG	
BF195	ALGG	121 - 85
BELI	ELMA	
♦MULB	♦PHIN	
RTCF	SIEG	
	♦VALG	
BF196	♦ALGG	123 - 24
MISI	♦MULB	
♦NPC	♦PHIN	
♦RTCF	SGAI	
THCF	♦VALG	
BF197	♦ALGG	123 - 37
MISI	♦MULB	
♦NPC	♦PHIN	
♦RTCF	SGAI	
THCF	♦VALG	
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INTG	ITTB	
♦NPC	♦PHIN	
	RTCF	
BF198Ø	MISI	123 - 25
♦PHIC	PIHS	
♦SIEG	THCF	
	♦VALG	
BF199△	♦ALGG	139 - 81
♦APX	ELMA	
INTG	ITTB	
♦NPC	PHIN	
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BF199Ø	MISI	123 - 38
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BF200	BELI	115 - 40
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BF233-3	MISI	119 - 69
♦NPC	NSC	
SGAI	THCF	
BF233-3△	NSC	141 - 85
BF233-4	MISI	119 - 70
♦NPC	SGAI	
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BF233-5	MISI	119 - 71
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BF234	MEHK	127 - 75
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♦PHIN	PIHS	
SIEG	♦TIID	
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BF240B	PIHS	123 - 97
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♦PHIN	PIHS	
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BF245	MISI	160 - 64
♦NPC	PHIC	
THCF	TIIB	
TIIC	TIID	
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RTCF	TIID	
TSC	♦VALG	
BF245B	MULB	156 - 68
PHIC	♦PHIN	
RTCF	TIID	
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BF245C	MULB	156 - 69
PHIC	♦PHIN	
RTCF	TIID	
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BF246	TIIB	160 - 65
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BF246A	TIIB	155 - 10
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BF246B	TIIB	155 - 11
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BF246C	TIID	155 - 12
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BF247	MISI	160 - 66
♦NPC	THCF	
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BF247A	TIID	155 - 13
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BF247C	TIID	155 - 15
BF248	TIIF	136 - 25
BF249	TIIF	107 - 14
BF250	TIIF	135 - 59
BF251	SGAI	115 - 51
BF252	SGAI	115 - 17
BF254△	INTG	121 - 93
NSC	PIHS	
	SIEG	
BF254Ø	♦ALGG	127 - 80
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BF254%	INTG	127 - 81
♦PHIN	♦TIID	
BF254B	PIHS	116 - 24
BF255△	INTG	121 - 86
NSC	PIHS	
	SIEG	
BF255Ø	♦ALGG	126-108
INTG	ITTB	
	♦VALG	
BF255%	INTG	126-109
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BF255C	PIHS	116 - 22
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♦RTCF	TIID	
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BF256B	MULB	156 - 71
NSC	♦PHIN	
♦RTCF	TIID	
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BF256C	MULB	156 - 72
NSC	♦PHIN	
♦RTCF	TIID	
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BF256L	♦TIIB	160 - 67
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BF257Ø	♦ALGG	146 - 62
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MISI	♦NPC	
NSC	♦PHIN	
THCF	TIIB	
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BF258△	ITTB	194 - 84
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BF258Ø	♦ALGG	146 - 63
INTG	MEHK	
MISI	♦NPC	
NSC	♦PHIN	
THCF	TIIB	
	TIIF	
BF259△	ITTB	194 - 85
♦SGAI	TIID	
BF259Ø	♦ALGG	146 - 64
INTG	MEHK	
MISI	♦NPC	
NSC	♦PHIN	
THCF	TIIB	
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BF260	SGAI	115 - 69
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♦NPC	SGAI	
TADI	THCF	
BF262	♦MULB	113 - 16
BF263	♦MULB	113 - 13
BF264	♦MULB	113 - 12
BF270	SGAI	115 - 52
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BF271	MEHK	122 - 18
MISI	♦NPC	
SGAI	TADI	
	THCF	
BF272	SGAI	95 - 70
BF273	MEHK	115 - 71
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BF273C	SGAI	119-110
BF273D	SGAI	120 - 1
BF274	MEHK	115 - 72
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BF274B	SGAI	120 - 2
BF274C	SGAI	120 - 3
BF287	SGAI	115 - 78
BF288	SGAI	115 - 26

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BF291	SGAI	134 - 12
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BF291A	SGAI	134 - 72
BF291B	SGAI	134 - 73
BF292	SGAI	144-105
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BF292A	SGAI	145 - 88
BF292B	SGAI	145 - 89
BF292C	SGAI	145 - 90
BF293A	SGAI	134 - 74
BF293D	SGAI	134 - 75
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BF302	SGAI	115 - 53
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BF303	SGAI	115 - 41
BF304	SGAI	115 - 42
BF305	SGAI	146 - 42
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BF306	SGAI	123 - 33
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BF308	SGAI	115 - 95
BF309	SGAI	115 - 96
BF310△	ALGG	128-110
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BF311	ALGG	135 - 28
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BF314△	ALGG	128 - 97
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BF316	SGAI	94 - 60
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BF320B	TIIB	150 - 55
BF320C	TIIB	150 - 56
BF322	TIIF	147 - 46
BF323	TIIF	110-102
BF324	INTG	98 - 62
ITTB	♦MULB	
♦PHIN	♦SIEG	
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BF329	SGAI	123 - 54
BF330	SGAI	123 - 60
BF332	SGAI	121 - 94
BF333	SGAI	121 - 87
BF334	♦PHIC	123 - 29
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BF335	♦PHIC	123 - 23
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♦PHIC	♦PHIN	
RTCF	♦TIIB	
	♦VALG	
BF337	♦APX	144 - 52
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♦MULB	♦PHIC	
♦PHIN	RTCF	
♦TIIB	♦VALG	
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♦MULB	♦PHIC	
♦PHIN	RTCF	
♦TIIB	♦VALG	
BF340	TIID	97 - 96
BF341	TIID	97 - 97
BF342	TIID	97 - 98
BF343	TIID	97 - 99
BF344	SGAI	115 - 27
BF345	SGAI	115 - 28
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BF346	TIID	160 - 71
BF348	TIID	160 - 72
BF350	TIID	160 - 73
BF351	TIID	160 - 74
BF352	TIID	160 - 75
BF353	TIID	160 - 76
BF357	TIID	117 - 14
BF362	♦APX	113 - 18
♦MULB	SIEG	
BF363	♦APX	113 - 15
♦MULB	SIEG	
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BF364	♦RTCF	127 - 82
BF365	♦RTCF	126-110
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BF378	ALGG	129 - 50
BF379	ALGG	101 - 87
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BF398	♦TIID	109 - 31
BF411	♦ALGG	125-100
BF412	♦ALGG	125-101
BF413	♦ALGG	124 - 31
BF414	ALGG	101 - 89
BF440	ALGG	101 - 68
BF441	ALGG	101 - 69
BF450	INTG	98 - 55
ITTB	♦MULB	
♦PHIN	♦SIEG	
TIID	♦VALG	
BF451	INTG	98 - 56
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♦PHIN	♦SIEG	
TIID	♦VALG	
BF456	TIIB	186-108
BF457	♦ALGG	201 - 65
INTG	ITTB	
PHIC	♦PHIN	
PIHS	♦SIEG	
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TYPE No.	MFRS	Pg&Line
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BF458	♦ALGG	201 - 66
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PHIC	♦PHIN	
PIHS	♦SIEG	
TIIB	♦TIID	
	♦VALG	
BF459	♦ALGG	201 - 67
INTG	ITTB	
PHIC	♦PHIN	
PIHS	♦SIEG	
TIIB	♦TIID	
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BF480	RTCF	113 - 62
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BF494	ELMA	127 - 83
PHIC	♦PHIN	
	♦RTCF	
BF495	ELMA	127 - 1
PHIC	♦PHIN	
	♦RTCF	
BF497	SGAI	120 - 47
BF516	SGAI	95 - 69
BF523	♦TIID	143 - 18
BF540	♦TIID	98 - 5
BF541	♦TIID	98 - 6
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BF594	TIIB	122-103
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BF595	TIIB	122-104
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BF596	TIIB	134 - 88
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BF606	SIEG	103 - 11
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BF801	TIIB	153 - 23
BF802	TIIB	153 - 24
BF803	♦TIIB	153 - 25
BF804	♦TIIB	153 - 26
BF805	TIIB	156 - 73
BF806	TIIB	156 - 74
BF808	TIIB	153 - 62
BF810	TIIB	156 - 75
BF811	TIIB	156 - 76
BF815	TIIB	156 - 77
BF816	TIIB	156 - 78
BF817	TIIB	156 - 79
BF818	TIIB	156 - 80
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♦PHIN	♦RTCF	271 - 74
	♦VALG	
BFQ11	♦MULB	155 - 17
♦PHIN	♦RTCF	271 - 75
	♦VALG	
BFQ12	♦MULB	155 - 18
♦PHIN	♦RTCF	271 - 76
	♦VALG	
BFQ13	♦MULB	155 - 19
♦PHIN	♦RTCF	271 - 77
	♦VALG	
BFQ14	♦MULB	155 - 20
♦PHIN	♦RTCF	271 - 78
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BFQ15	♦MULB	155 - 21
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BFR17	SGAI	133 - 42
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BFR18	SGAI	138 - 48
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BFR19	SGAI	146 - 43
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BFR20	SGAI	146 - 24
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BFR21	SGAI	146 - 25
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BFR22	SGAI	193 - 76
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BFR23	SGAI	174 - 37
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BFR24	SGAI	177 - 8
	TADI	
BFR25	SGAI	135 - 39
	TADI	252 - 13
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BFR28	♦SIEG	119 - 49
BFR29	♦MULB	153-108
♦PHIN	RTCF	
	♦VALG	
BFR30	♦MULB	153-109
♦PHIN	RTCF	
	♦VALG	
BFR31	♦MULB	153-110
♦PHIN	RTCF	
	♦VALG	
BFR34A	♦SIEG	121 - 62
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BFR40TO5	♦TIIB	146-109
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BFR58	TIIF	194 - 87
BFR59	TIIF	194 - 88
BFR60	♦TIIB	110 - 53
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BFR61	♦TIIB	110 - 49
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BFR62	♦TIIB	110 - 50
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BFR64	♦PHIC	195 - 73
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BFR65	♦PHIC	199 - 55
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BFR79	♦TIIB	110 - 88
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BFR80TO5	♦TIIB	110 - 91
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BFR81	♦TIIB	110 - 92
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BFR81TO5	♦TIIB	110 - 93
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BFR86	♦TIIB	146 - 77
BFR86TO5	♦TIIB	146 - 78
BFR87	♦TIIB	146 - 79
BFR87TO5	♦TIIB	146 - 80
BFR88	♦TIIB	146 - 81
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BFR89	♦TIIB	146 - 83
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BFR90	♦APX	116 - 59
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♦PHIN	♦RTCF	
	♦VALG	
BFR91	♦APX	116 - 60
♦MULB	PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BFR92	♦MULB	116 - 61
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BFR92R	♦RTCF	116 - 62
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BFR93R	♦RTCF	116 - 64
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BFR97	SGAI	193 - 77
BFR98	SGAI	190-108
BFR99	♦SGAI	96 - 89
BFS11	SGAI	115 - 79
BFS13E	SGAI	112 - 26
BFS13F	SGAI	112 - 27
BFS13G	SGAI	112 - 28
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BFS14F	SGAI	94 - 21
BFS14G	SGAI	94 - 22
BFS15E	SGAI	112 - 29
BFS15F	SGAI	112 - 30
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BFS16F	SGAI	94 - 27
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BFS17	PHIC	115 - 29
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	♦VALG	
BFS17R	♦MULB	113 - 3
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BFS18	PHIC	112-103
♦PHIN	♦VALG	
BFS18R	RTCF	112-104
BFS19	PHIC	112-106
♦PHIN	♦VALG	
BFS19R	RTCF	112-107
BFS20	PHIC	113 - 1
♦PHIN	♦SIEG	
	♦VALG	
BFS20R	♦MULB	119 - 60
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BFS21	♦MULB	156 - 82
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BF185		
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		♦VALG
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BF194		ALGG 121 - 92
	BELI	ELMA
	♦MULB	♦PHIN
	RTCF	SIEG
		♦VALG
BF195		ALGG 121 - 85
	BELI	ELMA
	♦MULB	♦PHIN
	RTCF	SIEG
		♦VALG
BF196		♦ALGG 123 - 24
	MISI	♦MULB
	♦NPC	♦PHIN
	♦RTCF	SGAI
	THCF	♦VALG
BF197		♦ALGG 123 - 37
	MISI	♦MULB
	♦NPC	♦PHIN
	♦RTCF	SGAI
	THCF	♦VALG
BF198△		♦ALGG 139 - 72
	♦APX	ELMA
	INTG	ITTB
	♦NPC	♦PHIN
		RTCF
BF198☑		MISI 123 - 25
	♦PHIC	PIHS
	♦SIEG	THCF
		♦VALG
BF199△		♦ALGG 139 - 81
	♦APX	ELMA
	INTG	ITTB
	♦NPC	PHIN
		RTCF
BF199☑		MISI 123 - 38
	♦PHIC	PIHS
	♦SIEG	THCF
		♦VALG
BF200		BELI 115 - 40
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	♦MULB	♦NPC
	PHIC	♦PHIN
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BF222		SGAI 116 - 8
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BF223		ALGG 135 - 27
BF224		TIIB 134 - 37
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BF225		TIIB 134 - 87
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	♦NPC	NSC
	SGAI	THCF
BF233-2△		NSC 141 - 84
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	♦NPC	NSC
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BF233-3△		NSC 141 - 85
BF233-4		MISI 119 - 70
	♦NPC	SGAI
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BF233-5		MISI 119 - 71
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		THCF
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	♦PHIN	PIHS
	SIEG	♦TIID
		♦VALG
BF240B		PIHS 123 - 97
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	INTG	ITTB
	♦PHIN	PIHS
	SIEG	♦TIID
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	RTCF	TIIB
	TIID	TSC
		♦VALG
BF244C		♦PHIN 156 - 66
	RTCF	TIIB
	TIID	TSC
		♦VALG
BF245		MISI 160 - 64
	♦NPC	PHIC
	THCF	TIIB
	TIIC	TIID
	TIIF	TSC
BF245A		MULB 156 - 67
	PHIC	♦PHIN
	RTCF	TIID
	TSC	♦VALG
BF245B		MULB 156 - 68
	PHIC	♦PHIN
	RTCF	TIID
	TSC	♦VALG
BF245C		MULB 156 - 69
	PHIC	♦PHIN
	RTCF	TIID
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BF246		TIIB 160 - 65
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BF246A		TIIB 155 - 10
	TIID	♦VALG
BF246B		TIIB 155 - 11
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BF246C		TIID 155 - 12
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BF247		MISI 160 - 66
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BF252		SGAI 115 - 17
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		SIEG
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	INTG	♦VALG
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	NSC	PIHS
		SIEG
BF255☑		♦ALGG 126 - 108
	INTG	ITTB
		♦VALG
BF255%		INTG 126 - 109
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BF255C		PIHS 116 - 22
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	NSC	♦PHIN
	♦RTCF	TIID
		♦VALG
BF256B		MULB 156 - 71
	NSC	♦PHIN
	♦RTCF	TIID
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	MISI	♦NPC
	NSC	♦PHIN
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	MISI	♦NPC
	NSC	♦PHIN
	THCF	TIIB
		TIIF
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	♦SGAI	TIID
BF259☑		♦ALGG 146 - 64
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	MISI	♦NPC
	NSC	♦PHIN
	THCF	TIIB
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	TADI	THCF
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BF263		♦MULB 113 - 13
BF264		♦MULB 113 - 12
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BF271		MEHK 122 - 18
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		THCF
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BF273C		SGAI 119 - 110
BF273D		SGAI 120 - 1
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BF274B		SGAI 120 - 2
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BF291A		SGAI 134 - 72
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BF292		SGAI 144 - 105
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BF292A		SGAI 145 - 88
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BF293A		SGAI 134 - 74
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BF298		♦TIID 142 - 93
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BF306		SGAI 123 - 33
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BF330		SGAI 123 - 60
BF332		SGAI 121 - 94
BF333		SGAI 121 - 87
BF334		♦PHIC 123 - 29
		♦VALG
BF335		♦PHIC 123 - 23
		♦VALG
BF336		ELMA 146 - 7
	MEHK	♦MULB
	♦PHIC	♦PHIN
	RTCF	♦TIIB
		♦VALG
BF337		♦APX 144 - 52
	ELMA	MEHK
	♦MULB	♦PHIC
	♦PHIN	RTCF
	♦TIIB	♦VALG
BF338		♦APX 146 - 8
	ELMA	MEHK
	♦MULB	♦PHIC
	♦PHIN	RTCF
	♦TIIB	♦VALG
BF340		TIID 97 - 96
BF341		TIID 97 - 97
BF342		TIID 97 - 98
BF343		TIID 97 - 99
BF344		SGAI 115 - 27
BF345		SGAI 115 - 28
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BF346		TIID 160 - 71
BF348		TIID 160 - 72
BF350		TIID 160 - 73
BF351		TIID 160 - 74
BF352		TIID 160 - 75
BF353		TIID 160 - 76
BF357		TIID 117 - 14
BF362		♦APX 113 - 18
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BF363		♦APX 113 - 15
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BF364		♦RTCF 127 - 82
BF365		♦RTCF 126 - 110
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BF411		♦ALGG 125 - 100
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BF413		♦ALGG 124 - 31
BF414		ALGG 101 - 89
BF440		ALGG 101 - 68
BF441		ALGG 101 - 69
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	♦PHIN	♦SIEG
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	ITTB	♦MULB
	♦PHIN	♦SIEG
	TIID	♦VALG
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	PHIC	♦PHIN
	PIHS	♦SIEG
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	PHIC	♦PHIN
	PIHS	♦SIEG
	TIIB	♦TIID
		♦VALG
BF459		♦ALGG 201 - 67
	INTG	ITTB
	PHIC	♦PHIN
	PIHS	♦SIEG
	TIIB	♦TIID
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BF494		ELMA 127 - 83
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		♦RTCF
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BF595		TIIB 122 - 104
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BF596		TIIB 134 - 88
BF597		TIIB 133 - 3
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BF801		TIIB 153 - 23
BF802		TIIB 153 - 24
BF803		♦TIIB 153 - 25
BF804		♦TIIB 153 - 26
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BF808		TIIB 153 - 62
BF810		TIIB 156 - 75
BF811		TIIB 156 - 76
BF815		TIIB 156 - 77
BF816		TIIB 156 - 78
BF817		TIIB 156 - 79
BF818		TIIB 156 - 80
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		♦VALG
BFQ11		♦MULB 155 - 17
	♦PHIN	♦RTCF 271 - 75
		♦VALG
BFQ12		♦MULB 155 - 18
	♦PHIN	♦RTCF 271 - 76
		♦VALG
BFQ13		♦MULB 155 - 19
	♦PHIN	♦RTCF 271 - 77
		♦VALG
BFQ14		♦MULB 155 - 20
	♦PHIN	♦RTCF 271 - 78
		♦VALG
BFQ15		♦MULB 155 - 21
	♦PHIN	♦RTCF 271 - 79
		♦VALG
BFQ16		♦MULB 155 - 22
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BFR17		SGAI 133 - 42
		TADI
BFR18		SGAI 138 - 48
		TADI
BFR19		SGAI 146 - 43
		TADI
BFR20		SGAI 146 - 24
		TADI
BFR21		SGAI 146 - 25
		TADI
BFR22		SGAI 193 - 76
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BFR23		SGAI 174 - 37
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BFR24		SGAI 177 - 8
		TADI
BFR25		SGAI 135 - 39
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	♦PHIN	RTCF
		♦VALG
BFR30		♦MULB 153 - 109
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BFR31		♦MULB 153 - 110
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BFR80TO5		♦TIIB 110 - 91
		254 - 1
BFR81		♦TIIB 110 - 92
		254 - 2
BFR81TO5		♦TIIB 110 - 93
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BFR87TO5		♦TIIB 146 - 80
BFR88		♦TIIB 146 - 81
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	♦PHIN	♦RTCF
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BFR91		♦APX 116 - 60
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	RTCF	♦VALG

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	♦VALG	
BFS23A	PHIC	196 - 66
♦PHIN	RTCF	
	♦VALG	
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BFS26F	SGAI	94 - 24
BFS26G	SGAI	94 - 25
BFS27E	SGAI	112 - 32
BFS27F	SGAI	112 - 33
BFS27G	SGAI	112 - 34
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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BLX69	♦MULB	212- 59
PHIC	♦PHIN	
RTCF	♦VALG	
BLX88	LTTF	137- 15
BLX91	♦MULB	194- 45
PHIC	♦PHIN	
	♦RTCF	
BLX92	♦MULB	196- 73
PHIC	♦PHIN	
♦RTCF	♦VALG	
BLX93	♦MULB	201- 96
PHIC	♦PHIN	
♦RTCF	♦VALG	
BLX94	♦MULB	212- 60
PHIC	♦PHIN	
♦RTCF	♦VALG	
BLX95	♦MULB	216- 91
PHIC	RTCF	
BLX98	♦PHIC	205- 94
BLY12	ITTB	206- 87
BLY14	MULB	201- 68
	♦PHIN	
BLY17	♦PHIN	218-109
BLY22	TADI	199- 56
BLY33	♦MULB	195- 75
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BLY34	♦MULB	195- 76
	TADI	

TYPE No.	MFRS	Pg&Line
BLY35	♦MULB	206- 88
BLY36	♦MULB	206- 89
		262- 63
BLY40	LTTF	224- 33
BLY47	TIIB	186-109
		246- 26
BLY47A	TIIB	186-110
		246- 27
BLY48	TIIB	187- 1
		246- 28
BLY48A	TIIB	187- 2
		246- 29
BLY49	TIIB	187- 3
		246- 30
BLY49A	TIIB	187- 4
		246- 31
BLY50	TIIB	187- 5
		246- 32
BLY50A	TIIB	187- 6
		246- 33
BLY53A	♦MULB	187- 7
	TIIB	
BLY55	♦MULB	200- 89
BLY61	TADI	187- 8
	TIIB	
BLY62	TIIB	187- 9
BLY63	TIIB	187- 10
BLY78	ALGG	200- 38
BLY79	ALGG	203- 21
BLY83	♦MULB	206- 90
PHIC	♦PHIN	
	TIIB	
BLY84	♦MULB	206- 91
PHIC	♦PHIN	
BLY85	♦MULB	200- 90
	TIIB	
BLY87A	PHIC	201- 69
♦PHIN	RTCF	
TIIB	♦VALG	
BLY88A	PHIC	205- 87
♦PHIN	RTCF	
TIIB	♦VALG	
BLY89A	♦MULB	213- 75
PHIC	♦PHIN	
RTCF	♦VALG	
BLY90	♦MULB	220-102
PHIC	♦PHIN	
♦RTCF	♦VALG	
BLY91A	PHIC	201-100
♦PHIN	RTCF	
TIIB	♦VALG	
BLY92A	PHIC	207- 41
♦PHIN	RTCF	
TIIB	♦VALG	
BLY93A	♦MULB	213- 76
PHIC	♦PHIN	
RTCF	♦VALG	
BLY94	♦MULB	220-103
PHIC	♦PHIN	
RTCF	♦VALG	
BLY97	♦MULB	200- 91
BM70-12	♦CTR	226- 40
BN209	TIIB	271-110
BP101	♦SIEG	274- 13
BPX25	♦MULB	274- 14
♦PHIN	♦RTCF	
BPX28	ALGG	274- 15
BPX29	♦MULB	274- 16
♦PHIN	♦RTCF	
BPX37	ALGG	274- 17
BPX38	♦SIEG	274- 18
BPX43	SIEG	274- 19
BPX44	LTTF	274- 20
BPX45	LTTF	274- 21
BPX58	ALGG	274- 22
BPX62/I	♦SIEG	274- 23
BPX62/II	♦SIEG	274- 24
BPX62/III	♦SIEG	274- 25
BPX62/IV	♦SIEG	274- 26
BPX70	♦RTCF	274- 27
BPX71	♦PHIN	274- 28
	♦RTCF	
BPX72	♦RTCF	274- 29
BPX81	SIEG	274- 30
BPX81/I	♦SIEG	274- 31
BPX81/II	♦SIEG	274- 32
BPX81/III	♦SIEG	274- 33
BPX81/IV	♦SIEG	274- 34
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BPX89	SIEG	274- 38
BPX95	♦RTCF	235- 58
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BPY60	♦SGAI	274- 40
BPY61/I	SIEG	274- 41
BPY61/II	SIEG	274- 42
BPY61/III	SIEG	274- 43
BPY62/I	SIEG	274- 44
BPY62/II	SIEG	274- 45
BPY62/III	SIEG	274- 46
BPY65	♦SGAI	274- 47
BPY76	♦PHIN	274- 48
BR100B	KER	199- 57
		281- 15
BR100D	KER	208- 71
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BR101B	KER	199- 58
		281- 17
BR101D	KER	208- 72
		281- 18
BSS10	SGAI	128- 33
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TYPE No.	MFRS	Pg&Line
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	TADI	265- 89
BSS12	SGAI	187- 12
	TADI	264- 72
BSS13	SGAI	193- 80
	TADI	
BSS14	SGAI	193- 81
	TADI	
BSS15	SGAI	198- 29
	TADI	251- 27
BSS16	SGAI	198- 30
	TADI	251- 28
BSS17	SGAI	177-109
	TADI	
BSS18	SGAI	177-110
	TADI	
BSS23	ALGG	137- 46
		234- 23
BSS26	SGAI	134- 90
		264-102
BSS27	♦PHIC	147- 85
♦PHIN	RTCF	262- 90
	♦VALG	
BSS28	♦PHIC	147- 86
♦PHIN	RTCF	262- 91
	♦VALG	
BSS29	♦PHIC	147- 87
♦PHIN	RTCF	262-103
	♦VALG	
BSS30	SGAI	190- 52
	TADI	
BSS31	SGAI	190- 53
	TADI	
BSS32	SGAI	190- 54
	TADI	
BSS33	LTTF	140- 91
BSS36	LTTF	282- 68
BSS37	♦VALG	95-104
BSS38	ELMA	125- 47
♦MULB	♦RTCF	
♦SIEG	♦VALG	
BSS40	♦PHIN	133- 70
♦RTCF	♦VALG	258- 84
BSS41	♦PHIN	133- 71
♦RTCF	♦VALG	258- 85
BSS42	♦ALGG	193- 82
		254- 14
BSS44	♦ALGG	111- 5
		252-101
BSS45	♦ALGG	148- 38
		234-101
BSS46	♦ALGG	111- 6
		234-102
BSS50	♦MULB	282- 69
PHIC	♦RTCF	
	♦VALG	
BSS51	♦MULB	282- 70
PHIC	♦RTCF	
	♦VALG	
BSS52	♦MULB	282- 71
PHIC	♦RTCF	
	♦VALG	
BSS68	ELMA	99- 59
♦MULB	♦RTCF	
♦SIEG	♦VALG	
BSV15	ALGG	175- 6
♦PHIN	SGAI	250- 83
♦SIEG	TADI	
TIIF	♦VALG	
BSV15-6	♦PHIN	175- 7
SGAI	SIEG	252- 14
	♦VALG	
BSV15-10	♦PHIN	175- 8
SGAI	SIEG	252- 15
	♦VALG	
BSV15-16	♦PHIN	175- 9
SGAI	SIEG	252- 16
	♦VALG	
BSV16	ALGG	175- 10
♦PHIN	SGAI	250- 84
♦SIEG	TADI	
TIIF	♦VALG	
BSV16-6	♦PHIN	175- 11
SGAI	SIEG	252- 17
	♦VALG	
BSV16-10	♦PHIN	175- 12
SGAI	SIEG	252- 18
	♦VALG	
BSV16-16	♦PHIN	175- 13
SGAI	SIEG	252- 19
	♦VALG	
BSV17	♦PHIN	175- 14
	♦VALG	250- 85
BSV17-8	♦PHIN	175- 15
SIEG	♦VALG	252- 20
BSV17-10	♦PHIN	175- 16
SIEG	♦VALG	252- 21
BSV21	♦TIIF	104- 74
		265- 12
BSV35	♦FERB	132- 60
		265- 90
BSV35A	♦FERB	132- 36
		263- 30
BSV36	♦FERB	132- 63
		266- 55
BSV37	♦FERB	103- 4
		265- 13
BSV40	ITTB	134- 39
BSV41	ITTB	134- 40
BSV42	ITTB	108-102
BSV43A	ITTB	108-103
BSV43B	ITTB	108-104
BSV44A	ITTB	108-105
BSV44B	ITTB	108-106

TYPE No.	MFRS	Pg&Line
BSV45A	ITTB	108-107
BSV45B	ITTB	108-108
BSV46	ITTB	106-102
BSV47A	ITTB	106-103
BSV47B	ITTB	106-104
BSV48A	ITTB	106-105
BSV48B	ITTB	106-106
BSV49A	ITTB	106-107
BSV49B	ITTB	106-108
BSV52	PHIC	113- 2
♦PHIN	♦VALG	265- 91
BSV52R	♦MULB	119- 73
	♦RTCF	264- 61
BSV57B	ALGG	277- 23
BSV59	SGAI	134- 64
	TADI	261- 95
BSV60	ALGG	145- 47
		252- 22
BSV64	♦MULB	195- 77
♦PHIC	♦PHIN	255- 56
RTCF	TADI	
BSV65FA	SIEG	115- 5
		262- 56
BSV65FB	SIEG	115- 6
		262- 57
BSV68	♦MULB	97-100
♦PHIC	♦PHIN	
RTCF	♦VALG	
BSV69	ALGG	144- 49
		234- 24
BSV77	SGAI	147- 88
	TADI	264-103
BSV78	ELMA	159- 66
♦MULB	PHIC	233- 14
♦PHIN	RTCF	
TADI	♦VALG	
BSV79	ELMA	159- 67
♦MULB	PHIC	233- 29
♦PHIN	RTCF	
TADI	♦VALG	
BSV80	ELMA	159- 68
♦MULB	PHIC	233- 67
♦PHIN	RTCF	
TADI	♦VALG	
BSV81	♦MULB	154- 3
PHIC	♦PHIN	
RTCF	TADI	
	♦VALG	
BSV82	SGAI	174- 38
		255- 78
BSV84	SGAI	145- 82
		252- 45
BSV86	♦PHIC	121- 82
	♦PHIN	254- 4
BSV87	♦PHIC	121- 83
	♦PHIN	254- 5
BSV88	♦PHIC	121- 84
	♦PHIN	254- 6
BSV89	SGAI	134- 91
		266- 43
BSV90	SGAI	134- 92
	TADI	266- 44
BSV91	SGAI	134- 93
	TADI	266- 45
BSV92	SGAI	135- 8
	TADI	266- 71
BSV95	SGAI	147- 89
	TADI	264-104
BSV96	♦PHIC	96- 63
	♦PHIN	
BSV97	♦PHIC	96- 64
	♦PHIN	
BSV98	♦PHIC	96- 65
	♦PHIN	
BSW19	TADI	121- 73
	TIIF	263- 76
BSW19A	ALGG	100- 18
		257- 65
BSW19VI	ALGG	100- 19
		257- 66
BSW20A	ALGG	98- 87
		257- 67
BSW20VI	ALGG	98- 88
		257- 68
BSW21	♦MISI	101- 71
NPC	TADI	
♦THCF	TIIF	
BSW21A	♦MISI	101- 72
NPC	♦THCF	
	TIIF	
BSW22	♦MISI	101- 73
TADI	♦THCF	
	TIIF	
BSW22A	♦MISI	101- 74
♦THCF	TIIF	
BSW23	TADI	110- 9
	TIIF	259- 24
BSW24	SGAI	106-109
TADI	TIIF	259- 25
BSW25	TADI	104-104
	TIIF	266-102
BSW26	TIID	139- 3
	TIIF	259- 26
BSW27	TIID	147- 13
	TIIF	259- 27
BSW28	TIID	147- 14
	TIIF	259- 86
BSW29	TIID	193- 83
	TIIF	259- 28
BSW32	♦TIIB	122- 29
	TIID	
BSW39-6	♦ALGG	144- 34
		250-100

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
BSW39-10	♦ALGG	144 - 35
		250-101
BSW39-16	♦ALGG	144 - 36
		250-102
BSW40-6	♦ALGG	110 - 31
		250-103
BSW40-10	♦ALGG	110 - 32
		250-104
BSW40-16	♦ALGG	110 - 33
		250-105
BSW40-25	♦ALGG	110 - 34
		250-106
BSW41	♦PHIC	132 - 14
♦PHIN	TADI	262 - 8
TIIF	♦VALG	
BSW42	♦MISI	128 - 34
NPC	♦THCF	257 - 4
BSW42A	♦MISI	128 - 35
NPC	♦THCF	257 - 5
BSW43	♦MISI	128 - 36
NPC	♦THCF	257 - 6
BSW43A	♦MISI	128 - 37
NPC	♦THCF	257 - 7
BSW44	♦MISI	101 - 75
NPC	♦THCF	
BSW44A	♦MISI	101 - 76
NPC	♦THCF	
BSW45	♦MISI	101 - 77
NPC	♦THCF	
BSW45A	♦MISI	101 - 78
NPC	♦THCF	
BSW49	LTTF	142 - 5
BSW58	TADI	113 - 48
TIIF	♦VALG	265 - 92
BSW59	TADI	113 - 49
TIIF	♦VALG	266 - 46
BSW65	♦MULB	146 - 13
	♦VALG	253 - 71
BSW66Ø	♦MULB	146 - 14
♦PHIC	♦PHIN	253 - 72
RTCF	TADI	
	♦VALG	
BSW67Ø	♦MULB	146 - 15
♦PHIC	♦PHIN	253 - 73
RTCF	♦VALG	
BSW68Ø	♦MULB	146 - 16
♦PHIC	♦PHIN	253 - 74
RTCF	♦VALG	
BSW69	♦MULB	113 - 41
♦PHIC	♦PHIN	
	♦VALG	
BSW70	♦MULB	122 - 30
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BSW72	♦INTG	106-110
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BSW73	♦INTG	107 - 1
	TADI	
BSW74	♦INTG	107 - 2
	TADI	
BSW75	♦INTG	107 - 3
	TADI	
BSW82	♦INTG	139 - 35
ITTB	TADI	
BSW83	♦INTG	139 - 36
ITTB	TADI	
BSW84	♦INTG	139 - 37
ITTB	TADI	
BSW85	♦INTG	139 - 38
ITTB	TADI	
BSW88A	ALGG	127 - 3
		260 - 34
BSW88B	ALGG	127 - 4
		260 - 35
BSW89A	ALGG	127 - 5
		260 - 36
BSW89B	ALGG	127 - 6
		260 - 37
8SX12	FERB	194 - 42
♦PHIC	♦PHIN	265 - 49
SGAI	♦VALG	
BSX12A	♦PHIC	194 - 43
♦PHIN	♦VALG	265 - 50
BSX20	ELMA	135 - 9
MEHK	PHIC	266 - 47
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BSX21	ELMA	126 - 79
MEHK	♦MULB	
NSC	PHIC	
PHIN	RTCF	
TADI	TIIF	
	♦VALG	
BSX22	ITTB	146 - 48
	TIIF	
BSX23	ITTB	146 - 49
BSX24	TADI	127 - 7
	TIIF	
BSX25	TADI	133 - 14
	TIIF	
BSX26	SGAI	135 - 12
TADI	TIIF	263-108
BSX27	MEHK	129 - 22
SGAI	TADI	266 - 48
	TIIF	
BSX28	SGAI	135 - 23
TADI	TIIF	264 - 73
BSX29	MEHK	104 - 98
SGAI	TADI	265 - 14
TIIB	TIIF	
BSX30	SGAI	147 - 70
TADI	TIIF	261 - 96
BSX32	SGAI	147 - 91
TADI	TIIF	263 - 58
BSX33	SGAI	138 - 50
TADI	TIIF	252 - 72

TYPE No.	MFRS	Pg&Line
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		263 - 59
BSX36	SGAI	104 - 20
TADI	TIIB	259 - 29
	TIIF	
BSX38	TADI	115-110
	TIIF	
BSX38A	ALGG	127 - 8
		260 - 38
BSX38B	ALGG	127 - 9
		260 - 39
BSX39	SGAI	135 - 19
TADI	TIIF	263-109
BSX40	ITTB	110 - 76
	TIIF	
BSX41	ITTB	110 - 95
	TIIF	
BSX44	MULB	129 - 9
PHIC	♦PHIN	
TADI	TIIF	
BSX45	SGAI	188 - 48
SIEG	TIIF	
	♦VALG	
BSX45-6	ALGG	148 - 52
NSC	SGAI	251 - 77
TADI	♦VALG	
BSX45-10	ALGG	148 - 53
NSC	SGAI	251 - 78
	♦VALG	
BSX45-16	ALGG	148 - 54
NSC	SGAI	251 - 79
TADI	♦VALG	
BSX46	SGAI	188 - 49
SIEG	TIIF	
	♦VALG	
BSX46-6	ALGG	148 - 55
NSC	SGAI	251 - 80
TADI	♦VALG	
BSX46-10	ALGG	148 - 56
NSC	SGAI	251 - 81
TADI	♦VALG	
BSX46-16	ALGG	148 - 57
NSC	SGAI	251 - 82
TADI	♦VALG	
BSX47	SIEG	188 - 50
	♦VALG	252 - 31
BSX47-6	♦VALG	188 - 51
BSX47-10	♦VALG	188 - 52
BSX48	NSC	188 - 21
SIEG	TADI	265 - 17
	TIIF	
BSX49	SIEG	188 - 22
		265 - 3
BSX51	MISI	128 - 38
NPC	TADI	257 - 8
THCF	TIIF	
BSX51A	MISI	128 - 39
NPC	TADI	257 - 9
THCF	TIIF	
BSX52	MISI	128 - 40
NPC	TADI	257 - 10
THCF	TIIF	
BSX52A	MISI	128 - 41
NPC	TADI	257 - 11
THCF	TIIF	
BSX53	TADI	114 - 82
	TIIF	259 - 87
BSX54	TADI	114 - 83
	TIIF	259 - 88
BSX59	♦FERB	147 - 92
♦MULB	♦PHIC	265 - 68
♦PHIN	RTCF	
TADI	TIIB	
TIIF	♦VALG	
BSX60	♦FERB	147 - 93
♦MULB	♦NTLB	265 - 69
PHIC	♦PHIN	
RTCF	TADI	
TIIB	TIIF	
	♦VALG	
BSX61	♦FERB	147 - 94
♦MULB	♦NTLB	265 - 70
PHIC	♦PHIN	
RTCF	TADI	
TIIB	TIIF	
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BSX62	SIEG	193 - 84
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BSX62-6	SIEG	193 - 85
BSX62-10	SIEG	193 - 86
	♦VALG	
BSX62-16	SIEG	193 - 87
	♦VALG	
BSX63	TADI	193 - 88
	♦VALG	253 - 17
BSX63-6	SIEG	193 - 89
		253 - 18
BSX63-10	SIEG	193 - 90
	♦VALG	
BSX66	TADI	127 - 10
		260 - 44
BSX67	TADI	127 - 11
		260 - 45
BSX68	♦VALG	113 - 44
		257 - 94
BSX69	♦VALG	113 - 45
		257 - 95
BSX70	TADI	138 - 67
BSX71	TADI	138 - 68
BSX72	ALGG	143 - 67
TADI	TIIF	253-100
BSX75	ALGG	136-103
TADI	TIIF	253-101

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TYPE No.	MFRS	Pg&Line
BSX76	MULB	127 - 77
TADI	TIIF	260 - 76
BSX77	MULB	127 - 78
TADI	TIIF	260 - 91
BSX78	MULB	127 - 89
TADI	TIIF	262 - 59
BSX79	TADI	133 - 72
	TIIF	259 - 89
BSX79A	ALGG	127 - 12
		260 - 40
BSX79B	ALGG	127 - 13
		260 - 41
BSX82	MULB	155 - 24
PHIC	♦PHIN	278-102
BSX87	♦SGAI	134 - 71
TADI	TIIF	263 - 31
BSX87A	♦SGAI	135 - 20
TADI	TIIF	264 - 18
BSX88	NSC	134 - 94
♦SGAI	TADI	263 - 32
	TIIF	
BSX88A	♦SGAI	134 - 65
	TIIF	264 - 23
BSX89	TADI	127 - 14
	TIIF	259 - 30
BSX90	TADI	128 - 42
	TIIF	262 - 70
BSX91	TADI	128 - 43
	TIIF	262 - 71
BSX92	TADI	135 - 13
	TIIF	266 - 33
BSX93	SGAI	135 - 24
TADI	TIIF	266 - 72
BSX95	TADI	143 - 68
	♦VALG	254 - 7
BSX96	TADI	143 - 69
	♦VALG	254 - 8
BSY10	TADI	125 - 48
	TIIF	
BSY11	TADI	114 - 61
	TIIF	
BSY17	SIEG	136 - 39
TADI	TIIF	262 - 46
BSY18	SIEG	136 - 40
TADI	TIIF	262 - 47
BSY19	TADI	131 - 18
	TIIF	
BSY21	TADI	134 - 41
	TIIF	263 - 33
BSY24	ITTB	141 - 52
	TADI	253 - 88
BSY25	MEHK	141 - 77
	TADI	256 - 39
BSY26	ITTB	127 - 15
MEHK	TADI	258 - 57
BSY27	ITTB	127 - 16
MEHK	SGAI	258 - 58
	TADI	
BSY28	ITTB	128 - 71
	TADI	264 - 51
BSY29	ITTB	128 - 72
	TADI	264 - 50
BSY34	SIEG	147 - 90
	TADI	264 - 98
BSY38	♦BELI	128 - 63
ELMA	♦MULB	263 - 91
NASB	NSC	
PHIC	♦PHIN	
RTCF	TADI	
	TIIF	
BSY39	♦BELI	128 - 64
ELMA	MEHK	263 - 92
♦MULB	NASB	
NSC	PHIC	
♦PHIN	RTCF	
TADI	TIIF	
BSY40	MEHK	101 - 63
PHIC	TADI	260 - 58
	TIIF	
BSY41	MEHK	101 - 67
PHIC	TADI	260 - 63
	TIIF	
BSY44	TADI	145 - 83
	TIIF	
BSY45	TADI	145 - 48
	TIIF	
BSY46	TADI	145 - 49
	TIIF	251 - 17
BSY48	SIEG	136 - 51
		264-105
BSY49	SIEG	136 - 52
		264 - 99
BSY51	INTG	146 - 50
ITTB	MEHK	
MISI	NASB	
NSC	SGAI	
TADI	THCF	
TIIF	♦VALG	
BSY52	INTG	146 - 85
ITTB	MEHK	
MISI	NASB	
NSC	SGAI	
TADI	THCF	
TIIF	♦VALG	
BSY53	INTG	146 - 51
ITTB	MEHK	
MISI	NASB	
NSC	TADI	
THCF	TIIF	
	♦VALG	
BSY54	INTG	146 - 92
ITTB	MEHK	
MISI	NASB	

TYPE No. (cont.)	MFRS	Pg&Line
	NSC	
SGAI	TADI	
THCF	TIIF	
	♦VALG	
BSY55	INTG	146 - 52
ITTB	MEHK	
TADI	TIIF	
	♦VALG	
BSY56	INTG	146 - 93
ITTB	MEHK	
SGAI	TADI	
TIIF	♦VALG	
BSY58	SIEG	148 - 64
	TADI	264-106
BSY59	TADI	98 - 83
		255 - 52
BSY61	TADI	118 - 66
		259 - 31
BSY62	SIEG	123-101
TADI	TIIF	
BSY62A	SIEG	136 - 16
		259 - 32
BSY62B	SIEG	136 - 17
		259 - 33
BSY63	SIEG	136 - 41
TADI	TIIF	263 - 34
BSY68	TADI	124 - 41
BSY70	TADI	128 - 50
	TIIF	
BSY71	TADI	147 - 7
	TIIF	
BSY72	TADI	126 - 83
	TIIF	
BSY73	TADI	125-109
	TIIF	
BSY74	TADI	126 - 84
	TIIF	
BSY75	TADI	125-110
	TIIF	
BSY76	TADI	126 - 85
	TIIF	
BSY77	TADI	126 - 1
	TIIF	
BSY78	ITTB	126 - 86
TADI	TIIF	
BSY79	INTG	123-100
ITTB	RTCF	
TADI	TIIF	
	♦VALG	
BSY80	TADI	127 - 45
	TIIF	
BSY81	INTG	148 - 58
ITTB	MEHK	
TADI	TIIF	
BSY82	INTG	148 - 59
ITTB	MEHK	
TADI	TIIF	
BSY83	INTG	148 - 60
ITTB	MEHK	
TADI	TIIF	
BSY84	INTG	148 - 61
ITTB	MEHK	
TADI	TIIF	
BSY85	INTG	148 - 62
ITTB	MEHK	
TADI	TIIF	
BSY86	INTG	148 - 63
ITTB	MEHK	
TADI	TIIF	
BSY87	INTG	146 - 53
ITTB	MEHK	
TADI	TIIF	
BSY88	INTG	146 - 54
ITTB	MEHK	
TADI	TIIF	
BSY89	ITTB	124 - 88
	TIIF	278-103
BSY90	INTG	146 - 55
ITTB	MEHK	
TADI	TIIF	
BSY91	TADI	145 - 50
	TIIF	
BSY92	TADI	145 - 51
	TIIF	
BSY93	TADI	133 - 15
	TIIF	
BSY95	MEHK	114 - 84
	TADI	
BSY95A	♦FERB	127 - 17
ITTB	MEHK	
♦MULB	NASB	
NSC	♦NTLB	
SGAI	♦TADI	
	TIIF	
BT929	♦RTN	112 - 5
BT930	♦RTN	112 - 6
BU100	SGAI	206 - 92
BU100A	SGAI	187 - 13
BU102	ETIF	230 - 64
	SGAI	
BU103A	ETIF	205 - 3
	♦NPC	
BU104	ETIF	230 - 65
MISI	♦NPC	
	♦THCF	
BU105	♦MOTA	213 - 77
♦MULB	NASB	
♦PHIN	♦RTCF	
BU105-02	NASB	213 - 78
BU106	ETIF	210 - 91
♦TIIB	TIID	
BU107	ETIF	210 - 92
	♦TIIB	

TYPE No.	MFRS	Pg&Line
BU108	♦MOTA	217 - 45
NASB	♦PHIN	
	RTCF	
BU109	ETIF	230 - 66
MISI	♦NPC	
	♦THCF	
BU110	ETIF	216 - 92
	SIEG	
BU111	ETIF	211-106
NASB	SIEG	
BU112	♦MISI	212 - 63
♦NPC	♦THCF	
BU113	MISI	215 - 50
♦NPC	♦THCF	
BU114	ETIF	215 - 51
NASB	♦SIEG	
BU115	SGAI	218-110
BU116	ETIF	219 - 1
	SGAI	
BU117	SGAI	219 - 2
BU120	ETIF	219 - 3
NASB	SGAI	
BU121	ETIF	219 - 4
	SGAI	
BU122	ETIF	219 - 5
	SGAI	
BU123	ETIF	219 - 6
NASB	SGAI	
BU125	SGAI	146 - 56
BU126	♦APX	213 - 79
ETIF	MISI	242 - 69
♦MULB	NASB	
♦PHIN	RTCF	
SIEG	THCF	
	♦VALG	
BU127	SGAI	187 - 14
BU128	SGAI	187 - 15
BU129	ETIF	215 - 52
MISI	NASB	
♦NPC	THCF	
BU131	♦VALG	217 - 46
		243 - 43
BU132	NASB	213 - 80
♦PHIN	RTCF	
	♦VALG	
BU133	ETIF	213 - 81
♦MULB	NASB	242 - 70
♦PHIN	♦RTCF	
BU134	ETIF	214-102
MISI	NASB	
	♦THCF	
BU204	♦ALGG	213 - 82
♦APX	♦MULB	242 - 64
NASB	PHIC	
♦PHIN	♦RTCF	
BU205	♦ALGG	213 - 83
♦APX	♦MULB	242 - 65
NASB	PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BU206	♦ALGG	213 - 84
♦MULB	NASB	242 - 66
PHIC	♦PHIN	
BU207	♦ALGG	217 - 47
♦APX	♦MULB	242 - 57
NASB	PHIC	
♦PHIN	♦RTCF	
BU208	♦ALGG	217 - 48
♦APX	♦MULB	242 - 58
NASB	PHIC	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BU209	♦ALGG	217 - 49
♦MULB	NASB	242 - 59
PHIC	♦PHIN	
BU210	ETIF	219 - 7
	♦SIEG	
BU211	ETIF	219 - 8
	♦SIEG	
BU212	ETIF	219 - 9
	♦SIEG	
BU310	♦SIEG	211-107
BU311	♦SIEG	211-108
BU312	♦SIEG	211-109
BUX10	MISI	222 - 69
NPC	♦THCF	242-106
BUX11	MISI	222 - 70
NPC	♦THCF	242-107
BUX12	MISI	222 - 71
NPC	♦THCF	242-108
BUX13	MISI	222 - 72
NPC	♦THCF	243 - 7
BUX14	MISI	222 - 73
NPC	♦THCF	243 - 8
BUX15	MISI	222 - 74
NPC	♦THCF	243 - 9
BUX20	MISI	228 - 34
NPC	♦THCF	242-109
BUX21	MISI	228 - 35
NPC	♦THCF	242-110
BUX22	MISI	228 - 36
NPC	♦THCF	243 - 1
BUX23	MISI	228 - 37
NPC	♦THCF	243 - 10
BUX24	MISI	228 - 38
NPC	♦THCF	243 - 11
BUX25	MISI	228 - 39
NPC	♦THCF	243 - 12
BUX39	MISI	220 - 29
NPC	♦THCF	243 - 2
BUX40	MISI	220 - 30
NPC	♦THCF	242-105
BUX41	MISI	220 - 31
NPC	♦THCF	243 - 3

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
BUX42	MISI	220- 32
NPC	♦THCF	243- 4
BUX43	MISI	220- 33
NPC	♦THCF	243- 5
BUX44	MISI	220- 34
NPC	♦THCF	243- 13
BUX45	MISI	220- 35
NPC	♦THCF	243- 14
BUY10	ITTB	206- 93
		253- 89
BUY11	ITTB	206- 94
		256- 38
BUY18	♦SGAI	215- 53
		252- 29
BUY20	♦TIIB	216- 62
		244- 60
BUY21	♦TIIB	216- 63
		244- 61
BUY21A	TIIB	216- 65
BUY22	♦TIIB	216- 64
		244- 62
BUY23	♦TIIB	229- 46
		246- 34
BUY23A	♦TIIB	229- 47
		246- 35
BUY24	SGAI	187- 16
		251-101
BUY35	♦SIEG	211-110
BUY38	SGAI	203-104
BUY39	TIIB	210- 33
BUY40	TIIB	210- 34
BUY41	TIIB	204- 12
BUY46	SGAI	205- 4
BUY47	SGAI	187- 17
BUY48	SGAI	187- 18
BUY49	SGAI	187- 19
BUY51	TIIB	223- 23
BUY51A	TIIB	223- 24
BUY52	TIIB	223- 25
BUY52A	TIIB	223- 26
BUY53	TIIB	223- 27
BUY53A	TIIB	223- 28
BUY54	TIIB	223- 29
BUY54A	TIIB	223- 30
BUY55	SIEG	217- 2
		245- 93
BUY56	SIEG	217- 3
		245- 94
BUY57	♦SIEG	219- 10
BUY58	♦SIEG	219- 11
BUY68	SGAI	195- 78
BUY68-6	SGAI	195- 79
BUY68-10	SGAI	195- 80
BUY68-16	SGAI	195- 81
BUY72	SIEG	217- 4
		245- 95
BUY73	♦SIEG	219- 12
BUY74	♦SIEG	220-104
BUY75	♦SIEG	220-105
BUY76	♦SIEG	220-106
BUY77	♦SIEG	217- 5
BUY78	♦SIEG	217- 6
BUY79	♦SIEG	217- 7
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C2-8Z	CTR	198- 32
C3-12	♦CTR	198- 33
C3-28	♦CTR	198- 34
C5-8	♦CTR	203- 78
C5-8Z	CTR	203- 79
C12-12	♦CTR	203- 80
C12-28	♦CTR	201-108
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C40-28	♦CTR	214- 50
C50-28	♦CTR	217- 50
C81	SLCB	161- 88
C82A	SLCB	154- 4
C82B	SLCB	154- 5
C83A	SLCB	154- 6
C83B	SLCB	154- 7
C91	SLCB	153- 37
C94	♦SLCB	159- 69
C94A	♦SLCB	159- 70
C94E	♦SLCB	155- 25
C94EG	♦SLCB	272- 1
C94ER	♦SLCB	272- 2
C95	♦SLCB	159- 71
C95A	♦SLCB	159- 72
C95E	♦SLCB	155- 26
C95EG	♦SLCB	272- 3
C95ER	♦SLCB	272- 4
C96E	♦SLCB	155- 27
C96EG	♦SLCB	272- 5
C97E	♦SLCB	154- 8
C97EG	♦SLCB	272- 6
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C98EG	♦SLCB	272- 8
C98ER	♦SLCB	272- 9
C111E	SGAI	128- 65
		262- 18
C400	SGAI	135- 69
C407	SGAI	117- 63
C413N	♦TCY	161- 89
C424	SGAI	125- 49
C425	SGAI	145-107
C426	SGAI	146- 17
		249- 86
C428	SGAI	144- 50
C441	SGAI	135- 92
C444	SGAI	128- 66
C450	SGAI	117- 77

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C681	♦TCY	154- 10
C681A	♦TCY	154- 11
C683	♦TCY	154- 12
C683A	♦TCY	154- 13
C685	♦TCY	154- 14
C685A	♦TCY	154- 15
C744	SGAI	144- 51
C760	SGAI	138- 49
C6690	♦TCY	153- 2
C6691	♦TCY	153- 3
C6692	♦TCY	153- 4
CA2D2	GPD	166- 44
CDT1310	GPD	167- 71
	STC	237-102
CDT1311	GPD	167- 72
	STC	237-103
CDT1312	GPD	167- 73
	STC	237-104
CDT1313	GPD	167- 74
	STC	237-105
CDT1319	GPD	167- 75
	STC	237- 98
CDT1320	GPD	167- 76
	STC	237- 99
CDT1321	GPD	167- 77
	STC	237-100
CDT1322	GPD	167- 78
	STC	237-101
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CH3226	♦PPC	221- 92
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CLT2020	♦CLA	274- 54
CLT2030	♦CLA	274- 55
CLT2064	♦CLA	274- 56
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CLT2150	♦CLA	274- 60
CLT2160	♦CLA	274- 61
CLT2165	♦CLA	274- 62
CLT3020	♦CLA	274- 63
CLT3030	♦CLA	274- 64
CLT3160	♦CLA	274- 65
CLT3170	♦CLA	274- 66
CLT4020	♦CLA	274- 67
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CM25-12	♦CTR	214- 46
CM40-12	♦CTR	216- 83
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CM641	♦TCY	156- 91
CM642	♦TCY	156- 92
CM643	♦TCY	156- 93
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CM697	♦TCY	161- 90
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CM800	♦TCY	156- 98
CP409	SGAI	146- 57
		255- 21
CP600	♦TCY	162-105
CP601	♦TCY	162-106
CP602	♦TCY	162-107
CP603	♦TCY	163- 3
CP640	♦TCY	162-100
CP643	♦TCY	162-101
CP650	INL	162-108
	♦TCY	
CP651	INL	162-109
	♦TCY	
CP652	INL	163- 1
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CP653	INL	163- 2
	♦TCY	
CQT940A	GPD	170-107
	STC	
CQT940B	GPD	170-108
	STC	
CQT1075	GPD	171- 53
	STC	
CQT1076	GPD	171- 54
	STC	
CQT1077	GPD	171- 55
	STC	
CQT1110	GPD	170-109
	STC	
CQT1110A	GPD	170-110
	STC	
CQT1111	GPD	171- 1
	STC	
CQT1111A	GPD	171- 2
	STC	
CQT1112	GPD	171- 3
	STC	
CS4001	♦CSI	120- 28
CS4003	♦CSI	117- 58
CS4005	♦CSI	125- 50
CS4006	♦CSI	125- 51
CS4007	♦CSI	125- 52
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		264- 13
CS4060	♦CSI	117- 59
CS4061	♦CSI	117- 60
CS4062	♦CSI	117- 64
CS4193	♦CSI	117- 4
CS4194	♦CSI	117- 5
CST1773	GPD	166- 23
	STC	238- 10
CST1789	GPD	166- 24
	STC	
CTP1500	GPD	171- 4
	STC	
CTP1504	GPD	171- 5
	STC	
CTP1508	GPD	171- 6
	STC	
CTP1544	GPD	169- 15
	STC	
CTP1552	GPD	169- 16
	STC	
CTP3500	GPD	171- 7
	STC	
CTP3503	GPD	171- 8
	STC	
CTP3504	GPD	171- 9
	STC	
CTP3508	GPD	171- 10
	STC	
CTP3544	GPD	171- 11
	STC	
CTP3545	GPD	171- 12
	STC	
CTP3552	GPD	171- 13
	STC	
CTP3553	GPD	171- 14
	STC	
D1-28	♦CTR	193- 93
D2T918	♦TII	119- 96
	TIIB	279- 56
D2T2218	♦TII	136- 31
	TIIB	260- 92
D2T2218A	♦TII	136- 32
	TIIB	261- 11
D2T2219	♦TII	136- 33
	TIIB	260- 93
D2T2219A	♦TII	136- 42
	TIIB	262- 92
D2T2904	♦TII	107- 4
	TIIB	259- 34
D2T2904A	♦TII	107- 5
	TIIB	259- 35
D2T2905	♦TII	107- 6
	TIIB	259- 36
D2T2905A	♦TII	107- 7
	TIIB	259- 37
D3-28	♦CTR	198- 35
D5-28B	♦CTR	199- 59
D5E37	♦GESY	277- 24
D5E43	♦GESY	277- 25
D5E44	♦GESY	277- 26
D5E45	♦GESY	277- 27
D5K1	♦GESY	277- 28
D5K2	♦GESY	277- 29
D10-28	♦CTR	201-109
D10-28B	♦CTR	201- 70
D16G6	♦GESY	119- 74
D16P1	♦GESY	282- 72
D20-28	♦CTR	207- 60
D20-28B	♦CTR	205- 88
D26C1	♦GESY	112- 44
D26C2	♦GESY	112- 45
D26C3	♦GESY	112- 46
D26C4	♦GESY	112- 47
D26C5	♦GESY	112- 48
D26E1	♦GESY	112- 56
D26E2	♦GESY	112- 49
D26E3	♦GESY	112- 50
D26E4	♦GESY	112- 51
D26E5	♦GESY	112- 52
D26E6	♦GESY	112- 53
D26E7	GESY	112- 54
D26G1	♦GESY	112- 55
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D26P2	♦GESY	282- 74
D26P3	♦GESY	282- 75
D29A4	♦SPR	103- 95
D29A5	♦SPR	103- 96
D29E1	♦GESY	107- 92
D29E1J1	♦GESY	109-107
D29E2	♦GESY	107-102
D29E2J1	♦GESY	110- 2
D29E4	♦GESY	107- 93
D29E4J1	♦GESY	109-103
D29E5	♦GESY	107- 96
D29E5J1	♦GESY	109-108
D29E6	♦GESY	107-103
D29E6J1	♦GESY	110- 3
D29E7	♦GESY	108- 21
D29E7J1	♦GESY	110- 4
D29E9	♦GESY	107- 76
D29E9J1	♦GESY	109-104
D29E10	♦GESY	107- 97
D29E10J1	♦GESY	109-109
D29F1	♦GESY	103- 69
D29F2	♦GESY	103- 70
D29F3	♦GESY	103- 71
D29F4	♦GESY	103- 72
D29F5	♦GESY	103- 73
D29F6	♦GESY	103- 74
D29F7	♦GESY	103- 75
D30A1	♦GESY	94- 29
D30A2	♦GESY	94- 30
D30A3	♦GESY	94- 31

TYPE No.	MFRS	Pg&Line
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D30A5	♦GESY	94- 33
D32P3	♦GESY	133- 51
D32P4	♦GESY	133- 54
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D33D21J1	♦GESY	143- 70
D33D22	♦GESY	138- 89
D33D22J1	♦GESY	143- 73
D33D24	♦GESY	138- 70
D33D24J1	♦GESY	143- 63
D33D25	♦GESY	138- 83
D33D25J1	♦GESY	143- 71
D33D26	♦GESY	138- 90
D33D26J1	♦GESY	143- 74
D33D27	♦GESY	138- 94
D33D27J1	♦GESY	143- 75
D33D29	♦GESY	138- 44
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D33D30	♦GESY	138- 84
D33D30J1	♦GESY	143- 72
D40C1	♦GESY	282- 76
D40C2	♦GESY	282- 77
D40C3	♦GESY	197- 9
D40C4	♦GESY	282- 78
D40C5	♦GESY	282- 79
D40C7	♦GESY	282- 80
D40C8	GESY	282- 81
D40D1	♦GESY	197- 10
		258- 50
D40D2	♦GESY	197- 11
		258- 51
D40D3	♦GESY	197- 12
		258- 52
D40D4	♦GESY	197- 13
		258- 53
D40D5	♦GESY	197- 14
		258- 54
D40D7	♦GESY	197- 15
		258- 55
D40D8	♦GESY	197- 16
		258- 56
D40D10	♦GESY	197- 17
D40D11	♦GESY	197- 18
D40D13	GESY	197- 19
D40D14	GESY	197- 20
D40E1	GESY	198- 76
D40E5	GESY	198- 77
D40E7	GESY	198- 78
D40K1	GESY	200- 92
D40K2	GESY	200- 93
D40N1	♦GESY	197- 21
D40N2	♦GESY	197- 22
D40N3	♦GESY	197- 23
D40N4	♦GESY	197- 24
D40N5	GESY	197- 25
D40P1	♦GESY	197- 26
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D40P5	♦GESY	197- 28
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		257- 12
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		257- 13
D41D4	♦GESY	178- 36
		257- 14
D41D5	♦GESY	178- 37
		257- 15
D41D7	♦GESY	178- 38
		257- 16
D41D8	♦GESY	178- 39
		257- 17
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D41D11	GESY	177- 61
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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GT45	STI	82 - 8
GT46	STI	82 - 16
GT47	STI	82 - 22
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GT81H	STI	81 - 83
GT81HS	STI	88 - 56
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GT87	STI	84 - 31
GT88	STI	84 - 83
GT100	STI	82 - 17
GT153	STI	82 - 5
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from DATA

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GT364	STI	92 - 21
GT365	STI	92 - 22
GT366	STI	92 - 23
GT759	STI	82 - 1
GT760	STI	82 - 13
GT761	STI	82 - 26
GT762	STI	82 - 31
GT763	STI	82 - 34
GT764	STI	82 - 33
GT905R	STI	91 - 60
GT949R	STI	91 - 61
GT1079	STI	92 - 81
GT1201	STI	91 -101
GT1202	STI	91 -105
GT2693	STI	85 - 14
GT2694	STI	83 -107
GT2695	STI	85 - 15
GT2696	STI	83 -108
GT2765	STI	92 - 66
GT2766	STI	92 - 75
GT2767	STI	92 - 76
GT2768	STI	92 - 61
GT2883	STI	83 -109
GT2884	STI	92 - 15
GT2885	STI	83 -110
GT2886	STI	92 - 16
GT2887	STI	84 - 1
GT2888	STI	92 - 17
GT2906	STI	92 - 67
GT5151	STI	90 - 8
GT5153	STI	90 - 16
HA2000	STI	151 -106
HA2001	STI	151 -107
HA2010	STI	151 -108
HA2020	STI	151 -109
HA5001	STI	93 - 42
HA5002	STI	93 - 35
HA5003	STI	93 - 39
HA5005	STI	93 - 36
HA5009	STI	93 - 43
HA5011	STI	93 - 40
HA5012	STI	93 - 37
HA5014	STI	93 - 41
HA5016	STI	93 - 38
HA5020	STI	93 - 26
HA5021	STI	93 - 29
HA5022	STI	93 - 27
HA5023	STI	93 - 31
HA5024	STI	93 - 28
HA5025	STI	93 - 30
HA5026	STI	93 - 32
HA7206	STI	97 - 83
HA7207	STI	97 - 86
HA7501	STI	107 - 65
HA7502	STI	107 - 69
HA7506	STI	107 - 66
HA7507	STI	107 - 71
HA7510	STI	107 - 70
HA7515	STI	175 - 90
HA7516	STI	111 - 14
HA7517	STI	111 - 15
HA7518	STI	111 - 16
HA7520	STI	175 - 91
HA7521	STI	175 - 92
HA7522	STI	175 - 93
HA7523	STI	175 - 94
HA7524	STI	175 - 95
HA7525	STI	175 - 96
HA7526	STI	175 - 97
HA7527	STI	175 - 98
HA7528	STI	175 - 99
HA7529	STI	175 -100
HA7530	STI	105 - 50
HA7531	STI	105 - 51
HA7532	STI	105 - 52
HA7533	STI	105 - 53
HA7534	STI	105 - 35
HA7535	STI	105 - 20
HA7536	STI	105 - 54
HA7537	STI	105 - 55
HA7538	STI	105 - 36
HA7539	STI	105 - 15
HA7540	STI	105 - 21
HA7541	STI	105 - 22
HA7542	STI	105 - 23
HA7543	STI	105 - 24
HA7597	STI	105 - 5
HA7598	STI	105 - 6
HA7599	STI	105 - 7
HA7630	STI	105 - 37
HA7631	STI	105 - 38
HA7632	STI	105 - 39
HA7633	STI	105 - 40
HA7723	STI	175 -101
HA7725	STI	175 -102
HA7730	STI	174 - 39
HA7731	STI	174 - 40
HA7732	STI	174 - 41
HA7733	STI	174 - 42
HA7734	STI	175 -103
HA7735	STI	175 -104
HA7736	STI	175 -105
HA7737	STI	175 -106
HA7804	STI	105 - 41
		278 -104
HA7806	STI	105 - 42
		278 -105
HA7807	STI	272 - 26
HA7808	STI	105 - 43
		278 -106
HA7809	STI	272 - 27
HA7810	STI	105 - 44
		278 -107

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HA9049	STI	98 - 74
HA9054	STI	97 - 66
		245 -105
HA9055	STI	97 - 80
		249 - 14
HA9056	STI	97 - 67
		245 -106
HA9057	STI	97 - 81
		249 - 15
HA9058	STI	97 - 68
		245 -107
HA9059	STI	97 - 82
		249 - 16
HA9078	STI	98 - 75
HA9079	STI	98 - 76
HA9500	STI	110 - 21
HA9501	STI	110 - 22
HA9502	STI	110 - 23
HA9531	STI	99 - 66
HA9531A	STI	99 - 67
HA9532	STI	99 - 68
HA9532A	STI	99 - 69
HA9532B	STI	106 - 60
HEP1-RT	MOTA	85 - 91
HEP2-RT	MOTA	90 - 32
HEP3-RT	MOTA	82 - 51
HEP50-RT	MOTA	136 - 34
HEP51-RT	MOTA	108 - 84
HEP52-RT	MOTA	107 - 8
HEP53-RT	MOTA	141 - 97
HEP54-RT	MOTA	130 - 16
HEP55-RT	MOTA	130 - 37
HEP56-RT	MOTA	131 - 7
HEP57-RT	MOTA	102 - 14
HEP75-RT	MOTA	187 - 20
HEP76-RT	MOTA	174 - 43
HEP200-RT	MOTA	164 - 14
HEP230-RT	MOTA	164 - 15
HEP231-RT	MOTA	164 - 16
HEP232-RT	MOTA	164 - 17
HEP233-RT	MOTA	164 - 18
HEP234-RT	MOTA	164 - 19
HEP235-RT	MOTA	164 - 20
HEP236-RT	MOTA	164 - 21
HEP237-RT	MOTA	164 - 22
HEP238-RT	MOTA	164 - 23
HEP239-RT	MOTA	164 - 24
HEP240-RT	MOTA	187 - 21
HEP241-RT	MOTA	187 - 22
HEP242-RT	MOTA	174 - 44
HEP243-RT	MOTA	187 - 23
HEP244-RT	MOTA	187 - 24
HEP245-RT	MOTA	187 - 25
HEP246-RT	MOTA	174 - 45
HEP247-RT	MOTA	187 - 26
HEP248-RT	MOTA	174 - 46
HEP250-RT	MOTA	87 - 84
HEP251-RT	MOTA	87 -104
HEP252-RT	MOTA	87 - 85
HEP253-RT	MOTA	88 - 71
HEP254-RT	MOTA	88 - 72
HEP310-RT	MOTA	277 - 32
HEP312-RT	MOTA	275 - 9
HEP623-RT	MOTA	164 - 25
HEP624-RT	MOTA	164 - 26
HEP625-RT	MOTA	164 - 27
HEP626-RT	MOTA	164 - 28
HEP627-RT	MOTA	164 - 29
HEP628-RT	MOTA	164 - 30
HEP629-RT	MOTA	87 - 47
HEP630-RT	MOTA	87 - 48
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HEP632-RT	MOTA	87 - 97
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HEP634-RT	MOTA	87 -109
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HEP636-RT	MOTA	86 - 38
HEP637-RT	MOTA	86 - 42
HEP638-RT	MOTA	79 - 94
HEP639-RT	MOTA	79 - 46
HEP640-RT	MOTA	79 - 47
HEP641-RT	MOTA	92 - 94
HEP642-RT	MOTA	164 - 31
HEP643-RT	MOTA	164 - 32
HEP644-RT	MOTA	164 - 33
HEP700-RT	MOTA	174 - 47
HEP701-RT	MOTA	187 - 27
HEP702-RT	MOTA	174 - 48
HEP703-RT	MOTA	187 - 28
HEP704-RT	MOTA	187 - 29
HEP705-RT	MOTA	174 - 49
HEP706-RT	MOTA	187 - 30
HEP707-RT	MOTA	187 - 31
HEP708-RT	MOTA	174 - 50
HEP709-RT	MOTA	129 - 11
HEP710-RT	MOTA	174 - 51
HEP712-RT	MOTA	187 - 32
HEP713-RT	MOTA	187 - 33
HEP714-RT	MOTA	187 - 34
HEP715-RT	MOTA	102 - 15
HEP716-RT	MOTA	102 - 24
HEP717-RT	MOTA	102 - 2
HEP718-RT	MOTA	130 -107
HEP719-RT	MOTA	131 - 4
HEP720-RT	MOTA	131 - 9
HEP721-RT	MOTA	130 - 70
HEP722-RT	MOTA	130 - 38
HEP723-RT	MOTA	130 - 39
HEP724-RT	MOTA	130 - 40
HEP725-RT	MOTA	130 - 41
HEP726-RT	MOTA	130 - 42

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HEP728-RT	MOTA	130 - 44
HEP729-RT	MOTA	130 - 45
HEP730-RT	MOTA	130 - 31
HEP731-RT	MOTA	130 - 17
HEP732-RT	MOTA	130 - 46
HEP733-RT	MOTA	130 - 22
HEP734-RT	MOTA	130 - 47
HEP735-RT	MOTA	130 - 29
HEP736-RT	MOTA	130 - 30
HEP737-RT	MOTA	130 - 23
HEP738-RT	MOTA	130 - 24
HEP739-RT	MOTA	101 -102
HEP740-RT	MOTA	187 - 35
HEP801-RT	MOTA	154 - 18
HEP802-RT	MOTA	154 - 19
HEP803-RT	MOTA	150 - 58
HEPF0021-RT	MOTA	159 - 17
HEPF1035-RT	MOTA	151 - 92
HEPF2004-RT	MOTA	161 - 93
HEPF2005-RT	MOTA	157 - 2
HEPF2007-RT	MOTA	162 - 11
HEPG6001-RT	MOTA	164 - 34
HEPG6002-RT	♦MOTA	172 - 67
HEPP0001-RT	MOTA	275 - 10
HEPP0002-RT	MOTA	275 - 11
HEPP1001-RT	MOTA	275 - 12
HEPS0001-RT	MOTA	187 - 36
HEPS0002-RT	MOTA	133 - 31
HEPS0003-RT	MOTA	133 - 32
HEPS0004-RT	MOTA	130 -103
HEPS0005-RT	MOTA	130 - 48
HEPS0006-RT	MOTA	101 -108
HEPS0007-RT	MOTA	130 - 49
HEPS3001-RT	MOTA	187 - 37
HEPS3002-RT	MOTA	187 - 38
HEPS3003-RT	MOTA	174 - 52
HEPS3005-RT	MOTA	187 - 39
HEPS3006-RT	MOTA	187 - 40
HEPS3007-RT	MOTA	187 - 41
HEPS3008-RT	MOTA	187 - 42
HEPS3009-RT	♦MOTA	217 - 64
HEPS3010-RT	♦MOTA	198 - 36
		246 - 85
HEPS3020-RT	MOTA	187 - 43
HEPS3021-RT	MOTA	187 - 44
HEPS3022-RT	MOTA	187 - 45
HEPS3023-RT	MOTA	187 - 46
HEPS3024-RT	MOTA	187 - 47
HEPS3025-RT	MOTA	187 - 48
HEPS3026-RT	MOTA	187 - 49
HEPS3027-RT	MOTA	174 - 53
HEPS3028-RT	MOTA	174 - 54
HEPS3029-RT	MOTA	174 - 55
HEPS3030-RT	MOTA	174 - 56
HEPS3031-RT	MOTA	174 - 57
HEPS5000-RT	MOTA	187 - 50
HEPS5001-RT	MOTA	187 - 51
HEPS5002-RT	MOTA	174 - 58
HEPS5003-RT	MOTA	187 - 52
HEPS5004-RT	MOTA	187 - 53
HEPS5005-RT	MOTA	174 - 59
HEPS5006-RT	MOTA	174 - 60
HEPS5007-RT	MOTA	174 - 61
HEPS5008-RT	MOTA	174 - 62
HEPS5009-RT	MOTA	174 - 63
HEPS5010-RT	MOTA	174 - 64
HEPS7000-RT	MOTA	187 - 54
HEPS7001-RT	MOTA	174 - 65
HEPS9001-RT	MOTA	277 - 33
HEPS9100-RT	MOTA	282 -108
HEPS9101-RT	♦MOTA	282 -109
HEPS9102-RT	♦MOTA	282 -110
HEPS9120-RT	MOTA	283 - 1
HEPS9121-RT	♦MOTA	283 - 2
HEPS9122-RT	♦MOTA	283 - 3
HEPS9140-RT	MOTA	283 - 4
HEPS9141-RT	MOTA	283 - 5
HF0100	RTN	193 - 94
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HP35820A	HPA	143 - 89
HP35821B	HPA	143 - 87
HP35821E	HPA	143 - 88
HP35822E	HPA	129 - 96
HP35824A	HPA	136 - 87
HP35825E	HPA	136 - 96
HP35826E	HPA	143 - 90
HP35831B	HPA	191 - 1
HP35831E	HPA	191 - 2
HP35832B	HPA	191 - 3
HP35832E	HPA	191 - 4
HP35850A	HPA	191 - 5
HP35853B	HPA	191 - 6
HP35853E	HPA	191 - 7
HP35854B	HPA	191 - 8
HP35854E	HPA	191 - 9
HP35861E	HPA	129 - 97
HP35861EOpt100		129 - 98
	HPA	
HP35862E	HPA	129 - 99
HP35862EOpt100		129 -100
	HPA	
HP35866E	HPA	129 - 94
HP35866EOpt100		129 - 95
	HPA	
HS5810	GESY	143 - 45
HS5811	GESY	109 - 89
HS5812	GESY	143 - 46
HS5813	GESY	109 - 90
HS5814	♦GESY	143 - 47
HS5815	♦GESY	109 - 91
HS5816	♦GESY	143 - 48
HS5817	♦GESY	109 - 92
HS5818	♦GESY	143 - 49

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HS5820	♦GESY	143 - 50
HS5821	♦GESY	109 - 94
HS5822	♦GESY	143 - 51
HS5823	♦GESY	109 - 95
HT100	EMLS	99 - 42
		249 - 12
HT101	EMLS	99 - 43
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IMF3954	♦INL	155 - 34
	TSC	272 - 28
IMF3954A	♦INL	155 - 35
	TSC	272 - 29
IMF3955	♦INL	155 - 36
	TSC	272 - 30
IMF3955A	♦INL	155 - 37
		272 - 31
IMF3956	♦INL	155 - 38
	TSC	272 - 32
IMF3957	♦INL	155 - 39
	TSC	272 - 33
IMF3958	♦INL	155 - 40
	TSC	272 - 34
IMF6485	NSC	161 - 55
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IT108	♦INL	154 - 20
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IT120	♦INL	135 - 56
		272 - 36
IT121	♦INL	135 - 57
		272 - 37
IT122	♦INL	117 - 6
		272 - 38
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		272 - 39
IT200	♦INL	153 - 63
IT210	♦INL	153 - 64
IT220	♦INL	153 - 65
IT918	♦INL	113 - 19
IT918A	♦INL	124 - 20
IT929	♦INL	113 - 7
IT930	♦INL	113 - 8
IT1700	♦INL	152 - 17
IT1750	♦INL	161 - 56
IT2218	♦INL	124 - 21
IT2219	♦INL	124 - 22
IT2221	♦INL	124 - 23
IT2222	♦INL	124 - 24
IT2483	♦INL	113 - 5
IT2484	♦INL	113 - 6
IT2604	♦INL	94 - 55
IT2605	♦INL	94 - 56
IT2904	♦INL	98 - 93
IT2905	♦INL	98 - 94
IT2906	♦INL	98 - 95
IT2907	♦INL	98 - 96
ITC918A	♦INL	124 - 25
ITE3066	♦INL	154 - 21
	TSC	
ITE3067	♦INL	154 - 22
	TSC	
ITE3068	♦INL	154 - 23
	TSC	
ITE4117	♦INL	154 - 24
	TSC	
ITE4118	♦INL	154 - 25
	TSC	
ITE4119	♦INL	154 - 26
	TSC	
ITE4338	♦INL	154 - 27
	TSC	
ITE4339	♦INL	154 - 28
	TSC	
ITE4340	♦INL	154 - 29
	TSC	
ITE4341	♦INL	154 - 30
	TSC	
ITE4391	♦INL	157 - 3
NSC	TSC	233 - 31
ITE4392	♦INL	157 - 4
NSC	TSC	233 - 32
ITE4393	♦INL	157 - 5
NSC	TSC	233 - 33
ITE4416	♦INL	154 - 31
NSC	TSC	
ITE4867	♦INL	154 - 32
	TSC	
ITE4868	♦INL	154 - 33
	TSC	
ITE4869	♦INL	154 - 34
	TSC	
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J300A	GESY	275 - 14
JH2101	SODI	157 - 6
JH2102	SODI	157 - 7
JH2103	SODI	157 - 8
JH2104	SODI	157 - 9
JH2105	SODI	157 - 10
JH2106	SODI	157 - 11
K2101	♦KMC	129 - 28
K2101A	♦KMC	129 - 53
K2101B	♦KMC	129 - 71
K2102	♦KMC	129 - 29
K2102A	♦KMC	129 - 54
K2102B	♦KMC	129 - 72
K2103	♦KMC	129 - 30
K2103A	♦KMC	129 - 55
K2103B	♦KMC	129 - 73
K2104	♦KMC	129 - 31
K2104A	♦KMC	129 - 56
K2104B	♦KMC	129 - 74
K2105	♦KMC	129 - 32
K2105A	♦KMC	129 - 57
K2105B	♦KMC	129 - 75

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K2106A	♦KMC	129 - 58
K2106B	♦KMC	129 - 76
K2107	♦KMC	129 - 34
K2107A	♦KMC	129 - 59
K2107B	♦KMC	129 - 77
K2108	♦KMC	129 - 35
K2108A	♦KMC	129 - 60
K2108B	♦KMC	129 - 78
K2109	♦KMC	120 - 51
K2109A	♦KMC	120 -108
K2109B	♦KMC	121 - 28
K2110	♦KMC	120 - 52
K2110A	♦KMC	120 -109
K2110B	♦KMC	121 - 29
K2111	♦KMC	120 - 53
K2111A	♦KMC	120 -110
K2111B	♦KMC	121 - 30
K2112	♦KMC	120 - 54
K2112A	♦KMC	121 - 1
K2112B	♦KMC	121 - 31
K2113	♦KMC	120 - 55
K2113A	♦KMC	121 - 2
K2113B	♦KMC	121 - 32
K2114	♦KMC	120 - 56
K2114A	♦KMC	121 - 3
K2114B	♦KMC	121 - 33
K2115	♦KMC	120 - 57
K2115A	♦KMC	121 - 4
K2115B	♦KMC	121 - 34
K2116	♦KMC	120 - 58
K2116A	♦KMC	121 - 5
K2116B	♦KMC	121 - 35
K2117	♦KMC	120 - 59
K2117A	♦KMC	121 - 6
K2117B	♦KMC	121 - 36
K2118	♦KMC	120 - 60
K2118A	♦KMC	121 - 7
K2118B	♦KMC	121 - 37
K2119	♦KMC	120 - 61
K2119A	♦KMC	121 - 8
K2119B	♦KMC	121 - 38
K2120	♦KMC	120 - 62
K2120A	♦KMC	121 - 9
K2120B	♦KMC	121 - 39
K2121	♦KMC	120 - 63
K2121A	♦KMC	121 - 10
K2121B	♦KMC	121 - 40
K2122	♦KMC	120 - 64
K2122A	♦KMC	121 - 11
K2122B	♦KMC	121 - 41
K2123	♦KMC	120 - 65
K2123A	♦KMC	121 - 12
K2123B	♦KMC	121 - 42
K2124	♦KMC	120 - 66
K2124A	♦KMC	121 - 13
K2124B	♦KMC	121 - 43
K2125	♦KMC	120 - 67
K2125A	♦KMC	121 - 14
K2125B	♦KMC	121 - 44
K2126	♦KMC	120 - 68
K2126A	♦KMC	121 - 15
K2126B	♦KMC	121 - 45
K2127	♦KMC	120 - 69
K2127A	♦KMC	121 - 16
K2127B	♦KMC	121 - 46
K2501	♦KMC	129 - 51
K2502	♦KMC	136 - 78
K2503	♦KMC	132 - 71
K2507	♦KMC	136 - 79
K2509	♦KMC	132 - 72
K2523	♦KMC	129 - 36
K2524	♦KMC	129 - 52
K2525	♦KMC	129 - 70
K2526	♦KMC	129 - 79
K2601	♦KMC	129 - 37
K2601A	♦KMC	129 - 61
K2601B	♦KMC	129 - 80
K2601C	♦KMC	120 - 70
K2602	♦KMC	129 - 38
K2602A	♦KMC	129 - 62
K2602B	♦KMC	129 - 81
K2602C	♦KMC	120 - 71
K2603	♦KMC	129 - 39
K2603A	♦KMC	129 - 63
K2603B	♦KMC	129 - 82
K2603C	♦KMC	120 - 72
K2604	♦KMC	129 - 40
K2604A	♦KMC	129 - 64
K2604B	♦KMC	129 - 83
K2604C	♦KMC	120 - 73
K2607	♦KMC	136 - 72
K2607A	♦KMC	136 - 80
K2607B	♦KMC	136 - 84
K2608	♦KMC	136 - 73
K2608A	♦KMC	136 - 81
K2608B	♦KMC	136 - 85
K2609	♦KMC	136 - 74
K2609A	♦KMC	136 - 82
K2609B	♦KMC	136 - 86
K2610	♦KMC	129 - 41
K2610A	♦KMC	129 - 65
K2610B	♦KMC	129 - 84
K2611	♦KMC	129 - 42
K2611A	♦KMC	129 - 66
K2611B	♦KMC	129 - 85
K2612	♦KMC	129 - 43
K2612A	♦KMC	129 - 67
K2612B	♦KMC	129 - 86
K2613	♦KMC	129 - 44
K2613A	♦KMC	129 - 68
K2613B	♦KMC	129 - 87
K2614	♦KMC	129 - 45
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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K2615B	♦KMC	121 - 47
K2616	♦KMC	120 - 75
K2616A	♦KMC	121 - 18
K2616B	♦KMC	121 - 48
K2857C	♦KMC	115 - 88
K2857P	KMC	115 - 89
K3683C	♦KMC	115 - 90
K3683P	KMC	115 - 91
K3880C	♦KMC	115 - 92
K3880P	KMC	115 - 94
K5001	♦KMC	121 - 25
K5002	♦KMC	121 - 26
K5003	♦KMC	121 - 27
K5012	KMC	115 - 97
K5201C	♦KMC	113 - 50
K5503C	♦KMC	115 - 98
K6001	KMC	107 - 49
K6002	KMC	107 - 50
K6003	KMC	107 - 51
K6007	KMC	107 - 52
K6008	KMC	107 - 53
K6009	KMC	107 - 54
KD2540	♦KMC	144 - 33
KD2541	♦KMC	144 - 32
KD4001	♦KMC	148 - 88
KD4002	♦KMC	148 - 87
KD4025	KMC	189 - 88
KD4501	♦KMC	148 - 89
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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MMF6	♦MOTA	157 - 82
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MMT70	♦MOTA	121 - 98
MMT71	♦MOTA	96 - 69
MMT72	♦MOTA	122 - 8
		264 - 92
MMT73	♦MOTA	96 - 87
		264-100
MMT74	♦MOTA	122 - 11
MMT75	♦MOTA	96 - 70
		233 - 79
MMT76	♦MOTA	121 - 99
		233 - 74
MMT806	♦MOTA	122 - 15
MMT807	♦MOTA	122 - 16
MMT808	♦MOTA	96 - 90
MMT809	♦MOTA	96 - 91
MMT918	♦MOTA	122 - 10
MMT930	♦MOTA	121-101
MMT2222	♦MOTA	122 - 6
		258 - 40
MMT2369	♦MOTA	122 - 9
		265 - 95
MMT2484	♦MOTA	121-102
MMT2857	♦MOTA	122 - 12
MMT2907	♦MOTA	96 - 86
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MMT3014	♦MOTA	122 - 7
		264 - 11
MMT3546	♦MOTA	96 - 88
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MMT3799	♦MOTA	96 - 72
MMT3823	♦MOTA	154 - 73
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MMT3904	♦MOTA	122 - 5
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MMT3906	♦MOTA	96 - 85
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MMT3960	♦MOTA	122 - 13
		267 - 39
MMT3960A	♦MOTA	122 - 14
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MMT8015	♦MOTA	121 - 51
MP110	GPD	171 - 20
	♦MOTA	
MP110B	GPD	171 - 21
	♦MOTA	
MP500	GPD	172 - 68
	♦MOTA	
MP500A	GPD	172 - 69
	♦MOTA	
MP501	GPD	172 - 70
	♦MOTA	
MP501A	GPD	172 - 71
	♦MOTA	
MP502	GPD	172 - 72
	♦MOTA	
MP502A	GPD	172 - 73
	♦MOTA	
MP504	GPD	172 - 74
	♦MOTA	
MP504A	GPD	172 - 75
	♦MOTA	
MP505	GPD	172 - 76
	♦MOTA	
MP505A	GPD	172 - 77
	♦MOTA	
MP506	GPD	172 - 78
	♦MOTA	
MP506A	GPD	172 - 79
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MP525	GPD	171 - 22
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MP600	♦MOTA	169 - 29
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MP601	♦MOTA	169 - 30
		236 - 75
MP602	♦MOTA	169 - 31
		236 - 76
MP603	♦MOTA	169 - 32
		236 - 77
MP800	♦MOTA	172 - 97
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MP1612B	♦MOTA	169 - 35
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MP2200A	GPD	171 - 25
	♦MOTA	238 - 73
MP2300A	GPD	171 - 26
	♦MOTA	238 - 74
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	♦MOTA	238 - 75
MP3730	♦MOTA	168 - 12
MP3731	♦MOTA	168 - 13
MP8111	♦MEHK	207 - 45
MP8112	♦MEHK	207 - 46
MP8113	♦MEHK	207 - 47
MP8121	♦MEHK	207 - 48
MP8122	♦MEHK	207 - 49
MP8123	♦MEHK	207 - 50
MP8131	MEHK	191 - 58
MP8132	MEHK	191 - 59
MP8133	MEHK	191 - 60
MP8134	MEHK	191 - 61
MP8135	MEHK	191 - 62
MP8136	MEHK	191 - 63
MP8211	MEHK	207 - 51
MP8212	MEHK	207 - 52
MP8213	MEHK	207 - 53
MP8221	MEHK	207 - 54
MP8222	MEHK	207 - 55
MP8223	MEHK	207 - 56
MP8511	MEHK	180 - 64
MP8512	MEHK	180 - 65
MP8513	MEHK	180 - 66
MP8521	MEHK	180 - 67
MP8522	MEHK	180 - 68
MP8523	MEHK	180 - 69
MP8531	MEHK	180 - 70
MP8532	MEHK	180 - 71
MP8533	MEHK	180 - 72
MP8534	MEHK	180 - 73
MP8535	MEHK	180 - 74
MP8611	MEHK	180 - 75
MP8612	MEHK	180 - 76
MP8613	MEHK	180 - 77
MP8621	MEHK	180 - 78
MP8622	MEHK	180 - 79
MP8623	MEHK	180 - 80
MPF102	INL	154 - 40
	♦MOTA	NSC
		TSC
MPF103	INL	154 - 41
		TSC
MPF104	INL	154 - 42
	NSC	TSC
MPF105	INL	154 - 43
	NSC	TSC
MPF106	♦INL	154 - 44
	♦NSC	TSC
MPF107	♦INL	154 - 45
	♦NSC	TSC
MPF108	♦MOTA	159 - 24
	NSC	TSC
MPF109	♦MOTA	159 - 25
	NSC	TSC
MPF110	NSC	161 - 16
MPF111	INL	154 - 46
	♦MOTA	NSC
		TSC
MPF112	INL	154 - 47
	♦MOTA	NSC
		TSC
MPF120	♦MOTA	162 - 19
MPF121	♦MOTA	162 - 20
MPF122	♦MOTA	162 - 21
MPF130	♦MOTA	160 - 3
MPF131	♦MOTA	160 - 4
MPF132	♦MOTA	160 - 5
MPF161	INL	151 - 93
	♦MOTA	
MPF256	♦MOTA	160 - 6
MPF820	♦MOTA	162 - 55
MPF970	♦MOTA	152 - 1
		233 - 34
MPF971	♦MOTA	152 - 2
		233 - 35
MPF4391	♦MOTA	162 - 56
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MPF4392	♦MOTA	162 - 57
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MPF4393	♦MOTA	162 - 58
		233 - 38
MPM5006	♦MOTA	130-108
MPS404	♦MOTA	102 - 44
	STI	241 - 45
MPS404A	♦MOTA	102 - 45
	STI	241 - 46
MPS706	FSC	130 - 50
	ITT	♦MOTA 259 - 44
	NSC	NTR
	SST	STI
MPS706A	FSC	130 - 51
	ITT	♦MOTA 259 - 45
	NTR	SST
		STI
MPS834	FSC	130 - 94
	ITT	♦MOTA 264 - 12
	NSC	NTR
	SST	STI
MPS918	FSC	130-109
	MOTA	NSC
	NTR	SST
		STI
MPS2369 ♦	FSC	130-105
	ITT	♦MOTA 265 - 96
	NTR	SST
		STI
MPS2711	FSC	129-101
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS2712	FSC	129-102
	ITT	MOTA
	NTR	SST
	STI	TSC
MPS2713	FSC	130 - 67
	ITT	♦MOTA 260 - 78
	NSC	NTR
	SST	STI
		TSC
MPS2714	FSC	130 - 68
	ITT	♦MOTA 260 - 79
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MPS2714		
(cont.)	NSC	
	NTR	SST
	STI	TSC
MPS2715	MOTA	129-103
	STI	
MPS2716	MOTA	129-104
	NSC	NTR
	SST	STI
MPS2923	FSC	117 - 11
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS2924	FSC	117 - 12
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS2925	FSC	117 - 13
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS2926	FSC	130 - 86
	ITT	MOTA
	NSC	NTR
	SST	STI
MPS3392	FSC	129-105
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3393	FSC	129-106
	ITT	MOTA
	NSC	NTR
	SST	STI
MPS3394	FSC	129-107
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3395	FSC	130 - 1
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3396	MOTA	130 - 2
	NSC	NTR
	SST	STI
MPS3397	MOTA	130 - 3
	NSC	NTR
	SST	STI
MPS3398	MOTA	130 - 4
	NSC	NTR
	SST	STI
MPS3563	FSC	130-110
	MOTA	NSC
	NTR	SST
		STI
MPS3638	FSC	101-109
	ITT	♦MOTA 254 - 40
	NSC	NTR
	SST	STI
MPS3638A	FSC	102 - 3
	♦MOTA	NSC 257 - 38
	NTR	SST
		STI
MPS3639	FSC	96 - 35
	♦MOTA	NSC 262-106
	NTR	SST
		STI
MPS3640	FSC	103 - 5
	♦MOTA	NSC 266 - 13
	NTR	SST
		STI
MPS3642	NSC	130 - 69
	NTR	SST
MPS3644	NSC	102 - 16
	NTR	SST 258 - 90
MPS3645	NSC	102 - 17
	NTR	SST 258 - 91
MPS3646	FSC	132 - 66
	ITT	♦MOTA 264 - 4
	NSC	NTR
	SST	STI
MPS3693	FSC	130 - 52
	ITT	♦MOTA
	NSC	NTR
	SST	STI
MPS3694	FSC	130 - 53
	♦MOTA	NSC
	NTR	SST
		STI
MPS3702	FSC	101-110
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3703	FSC	102 - 1
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3704	FSC	130 - 25
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3705	FSC	130 - 26
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
MPS3706	FSC	130- 27
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3707	FSC	130- 5
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3708	FSC	130- 6
	ITT	MOTA
	NSC	NTR
	SST	STI
MPS3709	FSC	130- 7
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3710	FSC	130- 8
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3711	FSC	130- 9
	ITT	MOTA
	NSC	NTR
	SST	STI
		TSC
MPS3721	ITT	130- 87
	MOTA	NSC
	NTR	SST
MPS3725	STI	143- 14
		263- 14
MPS3826	NSC	130- 54
	NTR	SST
MPS3827	NSC	130- 55
	NTR	SST
MPS4354	FSC	109- 67
	♦MOTA	NSC 266- 29
	NTR	SST
		STI
MPS4355	FSC	109- 68
	♦MOTA	NSC 266- 30
	NTR	SST
		STI
MPS4356	FSC	109- 69
	♦MOTA	NSC 266- 31
	NTR	SST
		STI
MPS5172	FSC	131- 93
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS5551M	FSC	143- 3
	STI	
MPS6507	♦MOTA	131- 5
	NSC	NTR
	SST	STI
MPS6511	FSC	130- 10
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6512	FSC	132- 20
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6513	FSC	132- 21
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6514	FSC	132- 53
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6515	FSC	132- 54
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6516	FSC	102-105
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6517	FSC	102-106
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	NTR	SST
	STI	TSC
MPS6518	FSC	103- 1
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6519	FSC	103- 2
	♦MOTA	NTR
	STI	TSC
MPS6520	FSC	130- 98
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6521	FSC	130- 99
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6522	FSC	102- 25
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6523	FSC	102- 26
	♦MOTA	NSC
	NTR	STI
		TSC
MPS6530	FSC	130-100
	ITT	♦MOTA
cont.next col.		

TYPE No.	MFRS	Pg&Line
MPS6530		
(cont.)	NSC	
	NTR	SST
	STI	TSC
MPS6531	FSC	130-101
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS6532	FSC	130-102
	ITT	♦MOTA
	NSC	NTR
	SST	STI
		TSC
MPS6533	ITT	102- 21
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6533M	FSC	109- 84
	STI	
MPS6534	ITT	102- 22
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6534M	FSC	109- 85
	STI	
MPS6535	ITT	102- 23
	♦MOTA	NSC
	NTR	SST
	STI	
MPS6535M	FSC	109- 86
	STI	
MPS6539	♦MOTA	130-106
	NTR	
MPS6540	♦MOTA	130- 95
	NSC	NTR
	SST	STI
MPS6541	NTR	130- 11
MPS6542	MOTA	131- 6
	NSC	NTR
	SST	STI
MPS6543	MOTA	131- 8
	NSC	NTR
	SST	STI
MPS6544	MOTA	130- 12
	NSC	NTR
	SST	STI
MPS6545	MOTA	130- 13
	STI	
MPS6546	MOTA	131- 1
	NSC	NTR
	SST	STI
MPS6547	MOTA	131- 2
	NTR	STI
MPS6548	♦MOTA	131- 3
	♦NTR	
MPS6560	FSC	142- 88
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6561	FSC	142- 89
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6562	FSC	109- 49
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6563	FSC	109- 50
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6564	NSC	130- 14
	SST	
MPS6565	FSC	130- 56
	ITT	MOTA
	NSC	NTR
	SST	STI
MPS6566	FSC	130- 57
	ITT	MOTA
	NSC	NTR
	SST	STI
MPS6567	MOTA	130- 15
	NSC	NTR
	SST	STI
MPS6568	♦MOTA	130- 96
	NTR	STI
MPS6568A	♦MOTA	130- 97
	NSC	NTR
	SST	STI
MPS6569	MOTA	130- 88
	NSC	NTR
	SST	STI
MPS6570	MOTA	130- 89
	NSC	NTR
	SST	STI
MPS6571	FSC	130- 32
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPS6573	♦MOTA	130- 58
MPS6574	♦MOTA	130- 59
MPS6575	♦MOTA	130- 60
MPS6576	♦MOTA	130- 61
MPS6590	♦MOTA	130- 18
	TSC	
MPS6591	ITT	130- 19
	♦MOTA	
MPS8000	♦MOTA	142- 76
MPS8001	♦MOTA	131- 84
MPS8097	♦MOTA	132- 8
MPS8098	♦MOTA	132- 3
MPS8099	♦MOTA	132- 4
MPS8598	♦MOTA	102- 94

TYPE No.	MFRS	Pg&Line
MPS8599	♦MOTA	102- 95
MPSA05	ITT	143- 4
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPSA06	♦MOTA	143- 5
	NSC	NTR
	SST	STI
MPSA09	♦MOTA	130- 21
	NSC	NTR
	SST	STI
		TSC
MPSA10	ITT	124-105
	NSC	NTR
	SST	STI
		TSC
MPSA12	♦MOTA	283- 62
	NSC	NTR
	SST	STI
MPSA13	♦MOTA	283- 63
	NSC	NTR
	SST	STI
MPSA14	♦MOTA	283- 64
	NSC	NTR
	SST	STI
MPSA16	♦MOTA	131- 85
	STI	
MPSA17	♦MOTA	131- 74
	STI	
MPSA18	♦MOTA	130- 28
MPSA20	ITT	125-103
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPSA42	♦MOTA	142- 82
	NSC	NTR
	SST	STI
MPSA43	♦MOTA	142- 83
	NSC	NTR
	SST	STI
MPSA55	ITT	109- 70
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPSA56	♦MOTA	109- 71
	NSC	NTR
	SST	STI
MPSA65	♦MOTA	283- 65
	STI	
MPSA66	♦MOTA	283- 66
	STI	
MPSA70	ITT	99- 73
	♦MOTA	NSC
	NTR	SST
	STI	TSC
MPSA92	♦MOTA	109- 47
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MPSA93	♦MOTA	109- 48
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MPSD01	♦MOTA	142- 78
MPSD02	♦MOTA	131- 62
MPSD03	♦MOTA	131- 63
MPSD04	♦MOTA	283- 67
MPSD05	♦MOTA	131- 86
MPSD06	♦MOTA	131- 87
MPSD51	♦MOTA	109- 44
MPSD52	♦MOTA	102- 63
MPSD53	♦MOTA	102- 64
MPSD54	♦MOTA	283- 68
MPSD55	♦MOTA	102- 81
MPSD56	♦MOTA	102- 82
MPSH02	♦MOTA	139- 70
	NTR	STI
MPSH04	♦MOTA	126- 90
	NTR	STI
MPSH05	♦MOTA	126- 91
	NTR	STI
MPSH07	♦MOTA	132- 55
	NTR	STI
MPSH08	♦MOTA	132- 56
	NTR	STI
MPSH10	♦MOTA	132- 67
	NSC	NTR
		STI
MPSH11	♦MOTA	132- 68
	NSC	NTR
		STI
MPSH17	♦MOTA	143- 20
MPSH19	♦MOTA	130- 90
	NTR	STI
MPSH20	♦MOTA	143- 19
	NSC	NTR
		STI
MPSH24	♦MOTA	139- 83
	NTR	STI
MPSH30	♦MOTA	130- 91
	NSC	NTR
		STI
MPSH31	♦MOTA	130- 92
	NSC	NTR
		STI
MPSH32	♦MOTA	130-104
	NSC	NTR
		STI
MPSH34	♦MOTA	139- 85
	NTR	STI
MPSH37	♦MOTA	130- 93
	NSC	NTR
		STI
MPSH54	♦MOTA	100- 50
	NTR	STI
MPSH55	♦MOTA	100- 51
	NTR	STI
MPSH81	♦MOTA	103- 13

TYPE No.	MFRS	Pg&Line
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	STI	
MPSH85	♦MOTA	102- 27
MPSK20	ITT	125-104
	♦MOTA	TSC
MPSK21	ITT	125-105
	♦MOTA	TSC
MPSK22	ITT	125-106
	♦MOTA	TSC
MPSK70	♦MOTA	99- 74
MPSK71	♦MOTA	99- 75
MPSK72	♦MOTA	99- 76
MPSL01	♦MOTA	130- 20
	NSC	NTR
		STI
MPSL07	STI	102- 29
		267- 20
MPSL08	STI	102- 30
		267- 31
MPSL51	♦MOTA	101-103
	NSC	NTR
		STI
MPSM83	♦MOTA	103- 12
MPSU01	♦MOTA	200- 53
MPSU01A	♦MOTA	200- 54
MPSU02	♦MOTA	197- 84
MPSU03	♦MOTA	196- 70
MPSU04	♦MOTA	196- 71
MPSU05	♦MOTA	196- 72
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MPSU10	♦MOTA	200-100
MPSU31	♦MOTA	189- 65
MPSU45	♦MOTA	283- 69
MPSU51	♦MOTA	178- 40
MPSU51A	♦MOTA	178- 41
MPSU52	♦MOTA	177- 73
MPSU55	♦MOTA	178- 56
MPSU56	♦MOTA	178- 57
MPSU57	♦MOTA	178- 58
MPSU60	♦MOTA	178- 59
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MRD150	♦MOTA	275- 29
MRD300	♦MOTA	275- 30
MRD310	♦MOTA	275- 31
MRD450	♦MOTA	275- 32
MRD600	♦MOTA	275- 33
MRD601	♦MOTA	275- 34
MRD602	♦MOTA	275- 35
MRD603	♦MOTA	275- 36
MRD604	♦MOTA	275- 37
MRD810	♦MOTA	275- 38
MRD3050	♦MOTA	275- 39
MRD3051	♦MOTA	275- 40
MRD3052	♦MOTA	275- 41
MRD3053	♦MOTA	275- 42
MRD3054	♦MOTA	275- 43
MRD3055	♦MOTA	275- 44
MRD3056	♦MOTA	275- 45
MRF207	♦MOTA	191- 19
MRF208	♦MOTA	207- 43
MRF209	♦MOTA	209-100
MRF215	♦MOTA	205- 80
MRF216	♦MOTA	214- 27
MRF221	♦MOTA	205- 81
MRF225	♦MOTA	191- 20
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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PT6910	TRW	224 - 76
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PT6942	TRW	206 -110
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PT6943	TRW	207 - 1
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PT6944	TRW	214 - 51
	UNI	255 - 7
PT6945	TRW	214 - 52
	UNI	255 - 8
PT6946	TRW	214 - 53
	UNI	255 - 9
PT6947	TRW	220 - 62
	UNI	255 - 22
PT6948	TRW	220 - 63
	UNI	255 - 23
PT6949	TRW	220 - 64
	UNI	255 - 24
PT6950	TRW	224 - 77
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PT6953	TRW	226 - 41
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PT7508	PTI	230 - 89
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PT7509	PTI	230 - 90
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PT7904	TRW	207 - 3
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PT7905	TRW	207 - 4
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PT7906	TRW	207 - 5
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PT7907	TRW	207 - 6
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PT7908	TRW	207 - 7
	UNI	253 - 38
PT7909	TRW	207 - 8
	UNI	253 - 39
PT7910	TRW	207 - 9
	UNI	253 - 40
PT7911	TRW	207 - 10
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	UNI	255 - 10
PT7913	TRW	214 - 55
	UNI	255 - 11
PT7914	TRW	214 - 56
	UNI	255 - 12
PT7915	TRW	214 - 57
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PT7916	TRW	214 - 58
	UNI	255 - 14
PT7917	TRW	214 - 59
	UNI	255 - 15
PT7918	TRW	214 - 60
	UNI	255 - 16
PT7919	TRW	214 - 61
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PT7921	TRW	220 - 65
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PT7922	TRW	220 - 66
	UNI	255 - 26
PT7923	TRW	220 - 67
	UNI	255 - 27
PT7927	TRW	220 - 68
	UNI	255 - 28
PT7928	TRW	220 - 69
	UNI	255 - 29
PT7929	TRW	220 - 70
	UNI	255 - 30
PT7930	TRW	224 - 80
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PT7931	TRW	224 - 81
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PT7932	TRW	224 - 82
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PT7933	TRW	224 - 83
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PT7934	TRW	224 - 84
	UNI	255 - 43
PT7935	TRW	224 - 85
	UNI	255 - 44
PT7936	TRW	224 - 86
		255 - 45
PT7937	TRW	224 - 87
		255 - 46
PT7938	TRW	224 - 88
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PT7939	TRW	226 - 44
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PT7941	TRW	226 - 46
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PT7942	TRW	226 - 47
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PT7943	TRW	226 - 48
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PT7944	TRW	226 - 49
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PT7945	TRW	226 - 50
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PT7946	TRW	226 - 51
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PT7947	TRW	226 - 52
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PT7948	TRW	224 - 89
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PT7950	TRW	224 - 90
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PT7956	TRW	207 - 11
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RA1C	♦GESY	279 -110
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	SSI	UNI 241- 49
SDT411	♦SOD	227- 15
	SSI	UNI 241- 50
SDT413	♦SOD	224- 92
	SSI	UNI 242- 42
SDT423	♦SOD	227- 16
	SSI	UNI 241- 51
SDT424	♦SOD	227- 17
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SDT425	♦SOD	227- 18
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SDT430	♦SOD	227- 19
	SSI	UNI 241- 54
TYPE No.	MFRS	Pg&Line
SDT431	♦SOD	227- 20
	SSI	UNI 241- 55
SDT1050	♦SOD	221- 55
SDT1051	♦SOD	221- 56
SDT1052	♦SOD	221- 57
SDT1053	♦SOD	221- 58
SDT1054	♦SOD	221- 59
SDT1055	♦SOD	221- 60
SDT1056	♦SOD	221- 61
SDT1057	♦SOD	221- 62
SDT1058	♦SOD	221- 63
SDT1059	♦SOD	221- 64
SDT1060	♦SOD	221- 65
SDT1061	♦SOD	221- 66
SDT1062	♦SOD	221- 67
SDT1063	♦SOD	221- 68
SDT1064	♦SOD	221- 69
SDT1860	GPD	172- 81
SDT1861	GPD	172- 82
SDT1862	GPD	172- 83
SDT1960	GPD	171- 74
SDT1961	GPD	171- 75
SDT1962	GPD	171- 76
SDT3101	AMC	183- 83
	KER	♦SOD 248- 61
		SSI
SDT3102	AMC	183- 84
	KER	♦SOD 248- 62
		SSI
SDT3103	AMC	183- 85
	KER	♦SOD 248- 63
		SSI
SDT3104	AMC	183- 86
	KER	♦SOD 248- 64
		SSI
SDT3105	AMC	183- 87
	KER	♦SOD 247- 42
		SSI
SDT3106	AMC	183- 88
	KER	♦SOD 247- 43
		SSI
SDT3107	AMC	183- 89
	KER	♦SOD 247- 44
		SSI
SDT3108	AMC	183- 90
	KER	♦SOD 247- 45
		SSI
SDT3109	AMC	183- 91
	KER	♦SOD 247- 46
		SSI
SDT3115	SOD	183- 92
SDT3116	SOD	183- 93
SDT3117	SOD	183- 94
SDT3118	SOD	183- 95
SDT3119	SOD	183- 96
SDT3125	AMC	181- 72
	KER	SOD
		SSI
SDT3126	AMC	181- 73
	KER	SOD
		SSI
SDT3127	AMC	181- 74
	KER	SOD
		SSI
SDT3128	AMC	181- 75
	KER	SOD
		SSI
SDT3129	AMC	181- 76
	KER	SOD
		SSI
SDT3201	AMC	215- 79
	GSE	KER 248- 65
	♦SOD	SSI
		UNI
SDT3202	AMC	215- 80
	GSE	KER 248- 66
	♦SOD	SSI
		UNI
SDT3203	AMC	215- 81
	GSE	KER 248- 67
	♦SOD	SSI
		UNI
SDT3204	AMC	215- 82
	GSE	KER 248- 68
	♦SOD	SSI
		UNI
SDT3205	AMC	215- 83
	GSE	KER 247-109
	♦SOD	SSI
		UNI
SDT3206	AMC	215- 84
	GSE	KER 247-110
	♦SOD	SSI
		UNI
SDT3207	AMC	215- 85
	GSE	KER 248- 1
	♦SOD	SSI
		UNI
SDT3208	AMC	215- 86
	GSE	KER 248- 2
	♦SOD	SSI
		UNI
SDT3209	AMC	215- 87
	GSE	KER 248- 3
	♦SOD	SSI
		UNI
SDT3225	AMC	221- 70
	GSE	KER
	SOD	SSI
SDT3226	AMC	221- 71
	GSE	KER
	SOD	SSI
SDT3227	AMC	221- 72
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TYPE No.	MFRS	Pg&Line
SDT3227		
(cont.)	GSE	
	KER	SOD
		SSI
SDT3228	AMC	221- 73
	GSE	KER
	SOD	SSI
SDT3229	AMC	221- 74
	GSE	KER
	SOD	SSI
SDT3301	AMC	181-100
	♦SOD	SSI 250- 42
SDT3302	AMC	181-101
	♦SOD	SSI 250- 43
SDT3303	AMC	181-102
	♦SOD	SSI 250- 44
SDT3304	AMC	181-103
	♦SOD	SSI 250- 45
SDT3305	AMC	181-104
	♦SOD	SSI 250- 46
SDT3306	AMC	181-105
	♦SOD	SSI 250- 47
SDT3307	AMC	181-106
	♦SOD	SSI 250- 48
SDT3308	AMC	181-107
	♦SOD	SSI 250- 49
SDT3309	AMC	181-108
	♦SOD	SSI 250- 50
SDT3321	AMC	177- 64
	SOD	SSI
SDT3322	AMC	177- 65
	SOD	SSI
SDT3323	AMC	177- 66
	SOD	SSI
SDT3324	AMC	177- 67
	SOD	SSI
SDT3325	AMC	177- 68
	SOD	SSI
SDT3326	AMC	177- 69
	SOD	SSI
SDT3327	AMC	177- 70
	SOD	SSI
SDT3328	AMC	177- 71
	SOD	SSI
SDT3329	AMC	177- 72
	SOD	SSI
SDT3401	AMC	212- 9
	GSE	♦SOD 250- 51
	SSI	UNI
SDT3402	AMC	212- 10
	GSE	♦SOD 250- 52
	SSI	UNI
SDT3403	AMC	212- 11
	GSE	♦SOD 250- 53
	SSI	UNI
SDT3404	AMC	212- 12
	GSE	♦SOD 250- 54
	SSI	UNI
SDT3405	AMC	212- 13
	GSE	♦SOD 250- 55
	SSI	UNI
SDT3406	AMC	212- 14
	GSE	♦SOD 250- 56
	SSI	UNI
SDT3407	AMC	212- 15
	GSE	♦SOD 250- 57
	SSI	UNI
SDT3408	AMC	212- 16
	GSE	♦SOD 250- 58
	SSI	UNI
SDT3409	AMC	212- 17
	GSE	♦SOD 250- 59
	SSI	UNI
SDT3421	AMC	197- 38
	GSE	SOD
	SSI	UNI
SDT3422	AMC	197- 39
	GSE	SOD
	SSI	UNI
SDT3423	AMC	197- 40
	GSE	SOD
	SSI	UNI
SDT3424	AMC	197- 41
	GSE	SOD
	SSI	UNI
SDT3425	AMC	197- 42
	GSE	SOD
	SSI	UNI
SDT3426	AMC	197- 43
	GSE	SOD
	SSI	UNI
SDT3427	AMC	197- 44
	GSE	SOD
	SSI	UNI
SDT3428	AMC	197- 45
	GSE	SOD
	SSI	UNI
SDT3429	AMC	197- 46
	GSE	SOD
	SSI	UNI
SDT3501	AMC	177- 12
	SOD	SSI
SDT3502	AMC	177- 13
	SOD	SSI
SDT3503	AMC	177- 14
	SOD	SSI
SDT3504	AMC	177- 15
	SOD	SSI
SDT3505	AMC	177- 16
	SOD	SSI
SDT3506	AMC	177- 17
	SOD	SSI
SDT3507	AMC	177- 18
	SOD	SSI
TYPE No.	MFRS	Pg&Line
SDT3508	AMC	177- 19
	SOD	SSI
SDT3509	AMC	180- 7
	SOD	SSI
SDT3510	AMC	180- 8
	SOD	SSI
SDT3511	AMC	180- 9
	SOD	SSI
SDT3512	AMC	180- 10
	SOD	SSI
SDT3513	AMC	180- 11
	SOD	SSI
SDT3514	AMC	180- 12
	SOD	SSI
SDT3515	AMC	180- 13
	SOD	SSI
SDT3516	AMC	180- 14
	SOD	SSI
SDT3550	♦AMC	177- 20
	SOD	
SDT3551	♦AMC	177- 21
	SOD	
SDT3552	♦AMC	177- 22
	SOD	
SDT3553	♦AMC	177- 23
	SOD	
SDT3554	♦AMC	177- 24
	SOD	
SDT3575	♦AMC	178- 90
	SOD	
SDT3576	♦AMC	178- 91
	SOD	
SDT3577	♦AMC	178- 92
	SOD	
SDT3578	♦AMC	178- 93
	SOD	
SDT3579	♦AMC	178- 94
	SOD	
SDT3601	KER	185- 35
	SOD	SSI
SDT3602	KER	185- 36
	SOD	SSI
SDT3603	KER	185- 37
	SOD	SSI
SDT3604	KER	185- 38
	SOD	SSI
SDT3620	SOD	229- 16
SDT3621	SOD	229- 17
SDT3622	SOD	229- 18
SDT3623	SOD	229- 19
SDT3701	♦AMC	179- 74
	SOD	
SDT3702	♦AMC	179- 75
	SOD	
SDT3703	♦AMC	179- 76
	SOD	
SDT3704	♦AMC	179- 77
	SOD	
SDT3705	♦AMC	179- 78
	SOD	
SDT3706	♦AMC	179- 79
	SOD	
SDT3707	♦AMC	179- 80
	SOD	
SDT3708	♦AMC	179- 81
	SOD	
SDT3709	♦AMC	179- 82
	SOD	
SDT3710	♦AMC	179- 83
	SOD	
SDT3711	♦AMC	179- 84
	SOD	
SDT3712	♦AMC	179- 85
	SOD	
SDT3713	♦AMC	179- 86
	SOD	
SDT3714	♦AMC	179- 87
	SOD	
SDT3715	♦AMC	179- 88
	SOD	
SDT3716	♦AMC	179- 89
	SOD	
SDT3717	♦AMC	179- 90
	SOD	
SDT3718	♦AMC	179- 91
	SOD	
SDT3719	♦AMC	179- 92
	SOD	
SDT3720	♦AMC	179- 93
	SOD	
SDT3721	♦AMC	179- 94
	SOD	
SDT3722	♦AMC	179- 95
	SOD	
SDT3723	♦AMC	179- 96
	SOD	
SDT3724	♦AMC	179- 97
	SOD	
SDT3725	♦AMC	179- 98
	SOD	
SDT3726	♦AMC	179- 99
	SOD	
SDT3727	♦AMC	179-100
	SOD	
SDT3728	♦AMC	179-101
	SOD	
SDT3729	♦AMC	179-102
	SOD	
SDT3730	♦AMC	179-103
	SOD	
SDT3731	♦AMC	179-104
	SOD	
SDT3732	♦AMC	179-105
	SOD	
TYPE No.	MFRS	Pg&Line
SDT3733	SOD	179-106
SDT3750	♦AMC	181- 77
	SOD	
SDT3751	♦AMC	181- 78
	SOD	
SDT3752	♦AMC	181- 79
	SOD	
SDT3753	♦AMC	181- 80
	SOD	
SDT3754	AMC	181- 81
	SOD	
SDT3755	♦AMC	181- 82
	SOD	
SDT3756	♦AMC	181- 83
	SOD	
SDT3757	♦AMC	181- 84
	SOD	
SDT3758	♦AMC	181- 85
	SOD	
SDT3759	♦AMC	181- 86
	SOD	
SDT3760	♦AMC	181- 87
	SOD	
SDT3761	♦AMC	181- 88
	SOD	
SDT3762	♦AMC	181- 89
	SOD	
SDT3763	♦AMC	181- 90
	SOD	
SDT3764	♦AMC	181- 91
	SOD	
SDT3765	♦AMC	181- 92
	SOD	
SDT3766	♦AMC	181- 93
	SOD	
SDT3775	♦AMC	177- 25
	SOD	
SDT3776	♦AMC	177- 26
	SOD	
SDT3777	♦AMC	177- 27
	SOD	
SDT3778	♦AMC	177- 28
	SOD	
SDT3801	♦AMC	180- 51
	SOD	
SDT3802	♦AMC	180- 52
	SOD	
SDT3803	♦AMC	180- 53
	SOD	
SDT3804	♦AMC	180- 54
	SOD	
SDT3805	♦AMC	180- 55
	SOD	
SDT3806	♦AMC	180- 56
	SOD	
SDT3807	♦AMC	180- 57
	SOD	
SDT3825	♦AMC	183- 50
	SOD	
SDT3826	♦AMC	183- 51
	SOD	
SDT3827	♦AMC	183- 52
	SOD	
SDT3850	♦AMC	181- 38
	SOD	
SDT3851	♦AMC	181- 39
	SOD	
SDT3852	♦AMC	181- 40
	SOD	
SDT3875	♦AMC	184- 13
	SOD	
SDT3876	♦AMC	184- 14
	SOD	
SDT3877	♦AMC	184- 15
	SOD	
SDT3901	KER	185- 77
SDT3902	KER	185- 78
	SOD	SSI
SDT3903	KER	185- 79
	SOD	SSI
SDT3904	KER	185- 80
	SOD	SSI
SDT3920	SOD	230- 94
SDT3921	SOD	230- 95
SDT3922	SOD	230- 96
SDT3923	SOD	230- 97
SDT4301	AMC	197- 47
	GSE	SSI
SDT4302	AMC	197- 48
	GSE	SSI
SDT4303	AMC	197- 49
	GSE	SSI
SDT4304	AMC	197- 50
	GSE	SSI
SDT4305	AMC	197- 51
	GSE	SSI
SDT4306	AMC	197- 52
	GSE	SSI
SDT4307	AMC	197- 53
	GSE	SSI
SDT4308	AMC	197- 54
	GSE	SSI
SDT4309	AMC	197- 55
	GSE	SSI
SDT4310	AMC	197- 56
	GSE	SSI
SDT4311	AMC	197- 57
	GSE	SSI
SDT4312	AMC	197- 58
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	GSE	KER
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
SDT4451		
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SDT4452	AMC	195 - 96
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	SOD	
	SSI	
	UNI	
SDT4453	AMC	195 - 97
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT4454	AMC	195 - 98
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT4455	GSE	195 - 99
	KER	
	SOD	
	SSI	
	UNI	
SDT4456	AMC	195-100
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT4483	AMC	195-101
	KER	
	SOD	
	SSI	
SDT4901	KER	207 - 13
	SOD	
	SSI	
SDT4902	KER	207 - 14
	SOD	
	SSI	
SDT4903	KER	207 - 15
	SOD	
	SSI	
SDT4904	KER	207 - 16
	SOD	
	SSI	
SDT4905	KER	207 - 17
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SDT4921	KER	195-102
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SDT4922	KER	195-103
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SDT4924	KER	195-105
	SOD	
	SSI	
SDT4925	KER	195-106
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SDT4941	SOD	211 - 39
SDT4942	SOD	211 - 40
SDT4943	SOD	211 - 41
SDT4944	SOD	211 - 42
SDT4945	SOD	211 - 43
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	SOD	
	SSI	
	UNI	
SDT5002	AMC	195-108
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	SOD	
	SSI	
	UNI	
SDT5003	AMC	195-109
	KER	
	SOD	
	SSI	
	UNI	
SDT5004	AMC	195-110
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	SOD	
	SSI	
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SDT5005	AMC	196 - 1
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	SOD	
	SSI	
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SDT5006	AMC	196 - 2
	KER	
	SOD	
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SDT5007	AMC	196 - 3
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	SOD	
	SSI	
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SDT5008	AMC	196 - 4
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	SOD	
	SSI	
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SDT5009	AMC	196 - 5
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	SOD	
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SDT5010	AMC	196 - 6
	KER	
	SOD	
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SDT5011	AMC	196 - 7
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	SOD	
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SDT5012	AMC	196 - 8
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	SOD	
	SSI	
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SDT5013	AMC	196 - 9
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	SOD	
	SSI	
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SDT5014	AMC	196 - 10
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	SOD	
	SSI	
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SDT5015	AMC	196 - 11
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	SOD	
	SSI	
	UNI	
SDT5051	AMC	196 - 12
	KER	
	SOD	
	SSI	
SDT5052	AMC	196 - 13
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	SOD	
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SDT5053	AMC	196 - 14
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	SOD	
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	SOD	
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SDT5502	AMC	196 - 19
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SDT5503	AMC	196 - 20
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SDT5504	AMC	196 - 21
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SDT5506	AMC	196 - 23
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SDT5507	AMC	196 - 24
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	SOD	
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SDT5508	AMC	196 - 25
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	SOD	
	UNI	
SDT5509	GSE	196 - 26
	KER	
	SOD	
	UNI	
SDT5510	AMC	196 - 27
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	KER	
	SOD	
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SDT5511	AMC	196 - 28
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	KER	
	SOD	
	UNI	
SDT5512	AMC	196 - 29
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	SOD	
	UNI	
SDT5513	AMC	196 - 30
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	KER	
	SOD	
	UNI	
SDT5514	AMC	196 - 31
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	KER	
	SOD	
	UNI	
SDT5515	AMC	196 - 32
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	KER	
	SOD	
	UNI	
SDT5551	AMC	196 - 33
	KER	♦SOD
		UNI
SDT5552	AMC	196 - 34
	KER	♦SOD
		UNI
SDT5553	AMC	196 - 35
	KER	♦SOD
		UNI
SDT5554	AMC	196 - 36
	KER	♦SOD
		UNI
SDT5555	AMC	196 - 37
	KER	♦SOD
		UNI
SDT5556	KER	196 - 38
	♦SOD	UNI
SDT5810	SOD	230 - 98
SDT5811	SOD	230 - 99
SDT5812	SOD	230-100
SDT5813	SOD	230-101
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SDT5818	SOD	230-105
SDT5820	SOD	230-106
SDT5821	SOD	230-107
SDT5822	SOD	230-108
SDT5823	SOD	230-109
SDT5825	SOD	230-110
SDT5826	SOD	231 - 1
SDT5827	SOD	231 - 2
SDT5828	SOD	231 - 3
SDT5830	SOD	231 - 4
SDT5831	SOD	231 - 5
SDT5832	SOD	231 - 6
SDT5833	SOD	231 - 7
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SDT5836	SOD	231 - 9
SDT5837	SOD	231 - 10
SDT5838	SOD	231 - 11
SDT5840	SOD	232 - 36
SDT5841	SOD	232 - 37
SDT5842	SOD	232 - 38
SDT5843	SOD	232 - 39
SDT5845	SOD	232 - 40
SDT5846	SOD	232 - 41
SDT5847	SOD	232 - 42
SDT5848	SOD	232 - 43
SDT5850	SOD	232 - 44
SDT5851	SOD	232 - 45
SDT5852	SOD	232 - 46
SDT5853	SOD	232 - 47
SDT5855	SOD	232 - 48
SDT5856	SOD	232 - 49
SDT5857	SOD	232 - 50
SDT5858	SOD	232 - 51
SDT5860	SOD	232 - 52
SDT5861	SOD	232 - 53
SDT5862	SOD	232 - 54
SDT5863	SOD	232 - 55
SDT5865	SOD	232 - 56
SDT5866	SOD	232 - 57
SDT5867	SOD	232 - 58
SDT5868	SOD	232 - 59
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	KER	
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	SOD	
	SSI	
	UNI	
SDT5903	AMC	205 - 22
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	KER	
	SOD	
	SSI	
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SDT5904	AMC	205 - 23
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	KER	
	SOD	
	SSI	
	UNI	
SDT5905	AMC	205 - 24
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	KER	
	SOD	
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SDT5906	AMC	205 - 25
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5907	AMC	205 - 26
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	KER	
	SOD	
	SSI	
	UNI	
SDT5908	AMC	205 - 27
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5909	AMC	205 - 28
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	KER	
	SOD	
	SSI	
	UNI	
SDT5910	AMC	205 - 29
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5911	AMC	205 - 30
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5912	AMC	205 - 31
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5913	AMC	205 - 32
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5914	AMC	205 - 33
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5915	AMC	205 - 34
	GSE	
	KER	
	SOD	
	SSI	
	UNI	
SDT5951	AMC	205 - 49
	KER	♦SOD
	SSI	UNI
SDT5952	AMC	205 - 50
	KER	♦SOD
	SSI	UNI
SDT5953	KER	205 - 51
	♦SOD	SSI
		UNI
SDT5954	AMC	205 - 35
	KER	♦SOD
	SSI	UNI
SDT5955	AMC	205 - 36
	KER	♦SOD
	SSI	UNI
SDT5956	KER	205 - 37
	♦SOD	SSI
		UNI
SDT6001	♦AMC	209 - 42
	KER	SSI
SDT6011	♦AMC	209 - 43
	KER	SSI
SDT6012	♦AMC	209 - 44
	KER	SSI
SDT6013	♦AMC	209 - 45
	KER	SSI
SDT6014	♦AMC	209 - 46
	KER	SSI
SDT6015	♦AMC	209 - 47
	KER	SSI
SDT6016	♦AMC	209 - 48
	KER	SSI
SDT6031	♦AMC	209 - 49
	KER	SSI
SDT6101	KER	196 - 39
	♦SOD	SSI
SDT6102	KER	196 - 40
	♦SOD	SSI
SDT6103	KER	196 - 41
	♦SOD	SSI
SDT6104	KER	199 - 66
	♦SOD	SSI
SDT6105	KER	199 - 67
	♦SOD	SSI
SDT6106	KER	199 - 68
	♦SOD	SSI
SDT6110	KER	197 - 89
	♦SOD	SSI
SDT6111	KER	197 - 90
	♦SOD	SSI
SDT6112	KER	197 - 91
	♦SOD	SSI
SDT6113	KER	202 - 86
	♦SOD	SSI
SDT6114	KER	202 - 87
	♦SOD	SSI
SDT6115	KER	202 - 88
	♦SOD	SSI
SDT6308	AMC	212 - 18
	GSE	KER
	SOD	SSI
SDT6309	AMC	212 - 19
	GSE	KER
	SOD	SSI
SDT6310	AMC	212 - 20
	GSE	KER
	SOD	SSI
SDT6311	AMC	212 - 21
	GSE	KER
	SOD	SSI
SDT6312	AMC	212 - 22
	GSE	KER
	SOD	SSI
SDT6313	AMC	212 - 23
	GSE	KER
	SOD	SSI
SDT6314	AMC	212 - 24
	GSE	KER
	SOD	SSI
SDT6315	AMC	212 - 25
	GSE	KER
	SOD	SSI
SDT6316	AMC	212 - 26
	GSE	KER
	SOD	SSI
SDT6408	AMC	212 - 27
	GSE	KER
	SOD	SSI
SDT6409	AMC	212 - 28
	GSE	KER
	SOD	SSI
SDT6410	AMC	212 - 29
	GSE	KER
	SOD	SSI
SDT6411	AMC	212 - 30
	GSE	KER
	SOD	SSI
SDT6412	AMC	212 - 31
	GSE	KER
	SOD	SSI
SDT6413	AMC	212 - 32
	GSE	KER
	SOD	SSI
SDT6414	AMC	212 - 33
	GSE	KER
	SOD	SSI
SDT6415	AMC	212 - 34
	GSE	KER
	SOD	SSI
SDT6416	AMC	212 - 35
	GSE	KER
	SOD	SSI
SDT6901	♦AMC	207 - 18
	KER	♦SOD
	SSI	UNI
SDT6902	KER	207 - 19
	♦SOD	SSI
		UNI
SDT6903	KER	207 - 20
	♦SOD	SSI
		UNI
SDT6904	KER	207 - 21
	♦SOD	SSI
		UNI
SDT6905	♦AMC	207 - 22
	KER	♦SOD
	SSI	UNI
SDT6906	KER	207 - 23
	♦SOD	SSI
		UNI
SDT6907	KER	207 - 24
	♦SOD	SSI
		UNI
SDT6908	KER	207 - 25
	♦SOD	SSI
		UNI
SDT7011	AMC	215 - 88
	GSE	KER
	SOD	SSI
		UNI
SDT7012	AMC	215 - 89
	GSE	KER
	SOD	SSI
		UNI
SDT7013	AMC	215 - 90
	GSE	KER
	SOD	SSI
		UNI
SDT7014 ♦	AMC	215 - 91
	GSE	KER
	SOD	SSI
		UNI
SDT7015	AMC	215 - 92
	GSE	KER
	SOD	SSI
		UNI
SDT7016	AMC	215 - 93
	GSE	KER
	SOD	SSI
		UNI
SDT7017	AMC	215 - 94
	GSE	KER
	SOD	SSI
		UNI
SDT7018	AMC	215 - 95
	GSE	KER
	SOD	SSI
		UNI
SDT7019	AMC	215 - 96
(cont.)	GSE	
	KER	SOD
		SSI
SDT7140	AMC	215 - 97
	GSE	KER
	SOD	SSI
SDT7141	AMC	215 - 98
	KER	SOD
		SSI
SDT7150	AMC	215 - 99
	GSE	KER
	SOD	SSI
SDT7151	AMC	215-100
	KER	SOD
SDT7152	AMC	215-101
	KER	SOD
		SSI
SDT7154	AMC	215-102
	GSE	KER
	SOD	SSI
SDT7155	AMC	215-103
	KER	SOD
		SSI
SDT7156	KER	215-104
	SOD	SSI
SDT7201	KER	219 - 38
	SOD	SSI
		UNI
SDT7202	KER	219 - 39
	SOD	SSI
		UNI
SDT7203	KER	219 - 40
	SOD	SSI
		UNI
SDT7204	KER	219 - 41
	SOD	SSI
		UNI
SDT7205	KER	219 - 42
	SOD	SSI
		UNI
SDT7206	AMC	219 - 43
	KER	SOD
	SSI	UNI
SDT7207	KER	219 - 44
	SOD	SSI
		UNI
SDT7208	KER	219 - 45
	SOD	SSI
		UNI
SDT7209	KER	219 - 46
	SOD	SSI
		UNI
SDT7401	AMC	197 - 59
	GSE	KER
	SOD	SSI
		UNI
SDT7402	AMC	197 - 60
	GSE	KER
	SOD	SSI
		UNI
SDT7403	AMC	197 - 61
	GSE	KER
	SOD	SSI
		UNI
SDT7411	AMC	197 - 62
	GSE	KER
	SOD	SSI
		UNI
SDT7412	AMC	197 - 63
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	SOD	SSI
		UNI
SDT7413	AMC	197 - 64
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SDT7414	AMC	197 - 65
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SDT7415	AMC	197 - 66
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		UNI
SDT7416	AMC	197 - 67
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SDT7417	AMC	197 - 68
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	SOD	SSI
SDT7418	AMC	197 - 69
	GSE	KER
	SOD	SSI
SDT7419	AMC	197 - 70
	GSE	KER
	SOD	SSI
SDT7601	AMC	219 - 47
	GSE	KER
	SOD	SSI
		UNI
SDT7602	AMC	219 - 48
	GSE	KER
	SOD	SSI
		UNI
SDT7603	AMC	219 - 49
	GSE	KER
	SOD	SSI
		UNI
SDT7604	AMC	219 - 50
	GSE	KER
	SOD	SSI
		UNI

cont.next col.

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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	SOD	
	SSI	
	UNI	
SDT7608	AMC	219 - 54
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	KER	
	SOD	
	SSI	
	UNI	
SDT7609	AMC	219 - 55
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	KER	
	SOD	
	SSI	
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SDT7610	AMC	219 - 56
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	SOD	
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	UNI	
SDT7611	AMC	219 - 57
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	SOD	
	SSI	
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SDT7612	KER	219 - 58
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SDT7732	♦SOD	220 - 77
		241-110
SDT7733	♦SOD	220 - 78
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SDT7734	♦SOD	220 - 79
		242 - 2
SDT7735	♦SOD	220 - 80
		242 - 3
SDT7736	♦SOD	220 - 81
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SDT7741	♦SOD	212 - 66
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SDT7742	♦SOD	212 - 67
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SDT7743	♦SOD	212 - 68
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SDT7744	♦SOD	212 - 69
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SDT7745	♦SOD	212 - 70
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SDT7746	♦SOD	212 - 71
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	UNI	
SDT7802	KER	215 -106
	SOD	
	SSI	
	UNI	
SDT7803	KER	215 -107
	SOD	
	SSI	
	UNI	
SDT7804	KER	215 -108
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	SSI	
	UNI	
SDT7805	KER	215 -109
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SDT7806	AMC	215 -110
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	SOD	
	SSI	
	UNI	
SDT7807	KER	216 - 1
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	SSI	
	UNI	
SDT7808	KER	216 - 2
	SOD	
	SSI	
	UNI	
SDT7809	KER	216 - 3
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	SSI	
	UNI	
SDT7901	KER	208 -104
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	SSI	
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SDT7903	KER	208 -106
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	SOD	
	SSI	
SDT7905	KER	208 -108
	SOD	
	SSI	
SDT7907	KER	208 -109
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	SSI	
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SDT7908	KER	208 -110
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	SSI	
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SDT7909	KER	209 - 1
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	SSI	
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SDT8071	AMC	224-101
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	SOD	
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SDT8151	KER	224-102
	SOD	
	SSI	
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SDT8152	KER	224-103
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	SSI	
	UNI	
SDT8153	KER	224-104
	SOD	
	SSI	
	UNI	
SDT8154	KER	224-105
	SOD	
	SSI	
SDT8155	KER	224-106
	SOD	
	SSI	
SDT8156	KER	224-107
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	SSI	
	UNI	
SDT8157	KER	224-108
	SOD	
	SSI	
	UNI	
SDT8158	KER	224-109
	SOD	
	SSI	
	UNI	
SDT8159	KER	224-110
	SOD	
	SSI	
	UNI	
SDT8301	AMC	225 - 1
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	SOD	
	SSI	
	UNI	
SDT8302	AMC	225 - 2
	KER	
	SOD	
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	UNI	
SDT8303	AMC	225 - 3
	KER	
	SOD	
	SSI	
	UNI	
SDT8304	AMC	225 - 4
	KER	
	SOD	
	SSI	
	UNI	
SDT8601	KER	229 - 20
	PTI	♦SOD
		SSI
		UNI
SDT8602	KER	229 - 21
	PTI	♦SOD
		SSI
		UNI
SDT8603	KER	229 - 22
	PTI	♦SOD
		SSI
		UNI
SDT8604	KER	229 - 23
	PTI	♦SOD
		SSI
		UNI
SDT8651	KER	229 - 24
	SOD	♦SOD
	SSI	SSI
	UNI	UNI
SDT8652	KER	229 - 25
	SOD	♦SOD
	SSI	SSI
	UNI	UNI
SDT8653	KER	229 - 26
	SOD	♦SOD
	SSI	SSI
	UNI	UNI
SDT8654	KER	229 - 27
	SOD	♦SOD
	SSI	SSI
	UNI	UNI
SDT8655	KER	229 - 28
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	SSI	SSI
	UNI	UNI
SDT8751	KER	225 - 5
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8752	KER	225 - 6
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8753	KER	225 - 7
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8754	KER	225 - 8
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8755	KER	225 - 9
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8756	KER	225 - 10
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8757	KER	225 - 11
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8758	KER	225 - 12
	PTI	♦SOD
	SOD	SSI
	SSI	UNI
SDT8801	KER	225 - 13
	♦SOD	SSI
SDT8802	KER	225 - 14
	♦SOD	SSI
SDT8803	KER	225 - 15
	♦SOD	SSI
SDT8804	KER	225 - 16
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SDT8805	KER	225 - 17
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SDT8920	AMC	231 - 12
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	SOD	SSI
SDT8921	AMC	231 - 13
	KER	PTI
	SOD	SSI
SDT8922	AMC	231 - 14
	KER	PTI
	SOD	SSI
SDT8923	AMC	231 - 15
	KER	PTI
	SOD	SSI
SDT8951	KER	231 - 16
	♦SOD	SSI
SDT8952	KER	231 - 17
	♦SOD	SSI
SDT8953	KER	231 - 18
	♦SOD	SSI
SDT8954	KER	231 - 19
	♦SOD	SSI
SDT8955	KER	231 - 20
	♦SOD	SSI
SDT9001	AMC	196 - 42
	GSE	KER
	SOD	SSI
		UNI
SDT9002	AMC	196 - 43
	GSE	KER
	SOD	SSI
		UNI
SDT9003	AMC	196 - 44
	GSE	KER
	SOD	SSI
		UNI
SDT9004	AMC	196 - 45
	GSE	KER
	SOD	SSI
		UNI
SDT9005	AMC	196 - 46
	GSE	KER
	SOD	SSI
		UNI
SDT9006	AMC	196 - 47
	GSE	KER
	SOD	SSI
		UNI
SDT9007	AMC	196 - 48
	GSE	KER
	SOD	SSI
		UNI
SDT9008	AMC	196 - 49
	GSE	KER
	SOD	SSI
		UNI
SDT9009	AMC	196 - 50
	GSE	KER
	SOD	SSI
		UNI
SDT9010	AMC	196 - 51
	GSE	KER
	SOD	SSI
		UNI
SDT9011	AMC	196 - 52
	GSE	KER
	SOD	SSI
		UNI
SDT9012	AMC	196 - 53
	GSE	KER
	SOD	SSI
		UNI
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	♦SOD	SSI
SDT9202	AMC	219 - 60
	♦SOD	SSI
SDT9203	AMC	219 - 61
	♦SOD	SSI
SDT9204	AMC	219 - 62
	♦SOD	SSI
SDT9205	AMC	219 - 63
	♦SOD	SSI
SDT9206	AMC	219 - 64
	♦SOD	SSI
SDT9207	AMC	219 - 65
	♦SOD	SSI
SDT9208	AMC	219 - 66
	♦SOD	SSI
SDT9209	AMC	219 - 67
	♦SOD	SSI
SDT9210	AMC	219 - 68
	♦SOD	SSI
SDT9301	SOD	216 - 4
SDT9302	SOD	216 - 5
SDT9303	SOD	216 - 6
SDT9304	SOD	216 - 7
SDT9305	SOD	216 - 8
SDT9306	SOD	216 - 9
SDT9307	SOD	216 - 10
SDT9308	SOD	216 - 11
SDT9309	SOD	216 - 12
SDT9610	SOD	231 - 21
SDT9611	SOD	231 - 22
SDT9612	SOD	231 - 23
SDT9613	SOD	231 - 24
SDT9614	SOD	231 - 25
SDT9620	SOD	229 - 29
SDT9621	SOD	229 - 30
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SDT9634	SOD	226 - 57
SDT9640	SOD	225 - 18
SDT9641	SOD	225 - 19
SDT9642	SOD	225 - 20
SDT9643	SOD	225 - 21
SDT9644	SOD	225 - 22
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SDT9651	SOD	231 - 27
SDT9652	SOD	231 - 28
SDT9653	SOD	231 - 29
SDT9654	SOD	231 - 30
SDT9660	SOD	229 - 34
SDT9661	SOD	229 - 35
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SDT9673	SOD	226 - 61
SDT9674	SOD	226 - 62
SDT9680	SOD	225 - 23
SDT9681	SOD	225 - 24
SDT9682	SOD	225 - 25
SDT9683	SOD	225 - 26
SDT9684	SOD	225 - 27
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SDT9702	AMC	222 - 80
	SOD	SSI
SDT9703	AMC	222 - 81
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SDT9704	AMC	222 - 82
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SDT9705	AMC	222 - 83
	SOD	SSI
SDT9706	AMC	222 - 84
	SOD	SSI
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TIS57	♦TIIB	119 - 78
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TIS59	♦TII	161 - 29
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TIS60M	TIIB	269 - 12
TIS61	TIIB	104 - 52
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TIS61M	TIIB	269 - 13
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TIS63	♦GESY	123 - 28
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TIS64	TIIC	123 - 21
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TIS64A	♦TII	139 - 80
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TIS69	♦TII	161 - 31
TIIB	TIID	273 - 78
TIS70	♦TII	161 - 32
TIIB	TIID	273 - 79
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TIS74	INL	161 - 34
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TIS79	TIID	161 - 37
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TIS86	♦TII	136 - 60
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TIS87	♦TII	136 - 61
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TIS88A	♦TIIB	161 - 38
TIS90	♦TII	142 - 72
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TIS90M	♦TII	269 - 14
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TIS91	♦TII	109 - 32
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TIS91M	♦TII	269 - 15
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TIS92M	♦TII	269 - 16
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TIS93M	♦TII	269 - 17
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TIS95	♦TII	143 - 11
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TIS96	♦TII	143 - 12
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TIS97	STI	133 - 78
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TIS98	♦TII	133 - 79
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TIS99	♦TII	133 - 80
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TIS101	♦TII	142 - 91
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TIS104	TIIC	103 - 76
TIS105	♦TII	136 - 65
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TIS108	♦TII	122 - 35
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TIS109	♦TII	134 - 10
		260 - 87
TIS110	♦TII	133 - 81
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TIS111	♦TII	134 - 11
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TIS129	♦TII	123 - 59
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TIS133	♦TII	143 - 77
	TIIB	261 - 29
TIS134	♦TII	143 - 78
	TIIB	261 - 30
TIS135	♦TII	143 - 79
	TIIB	261 - 31
TIS136	♦TII	143 - 80
	TIIB	261 - 32
TIS137	♦TII	104 - 62
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TIS138	♦TII	104 - 41
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TIX67	TIID	152 - 12
TIXP547	♦TII	231 - 88
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TIXP548	♦TII	231 - 89
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TIXP549	♦TII	231 - 90
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TIXS10	♦TIIB	121 - 21
TIXS12	TIIB	188 - 95
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TIXS35	TIID	162 - 32
TIXS36	TIID	162 - 33
TIXS80	TIIB	158 - 37
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TK82	♦SPR	112 - 68
TK582	♦SPR	94 - 43
TM1613	TIIB	142 - 9
TM1614	TIIB	109 - 9
TM1711	TIIB	142 - 10
TM1712	TIIB	109 - 10
TM2613	TIIB	136 - 35
TM2614	TIIB	107 - 12
TM2711	TIIB	136 - 36
TM2712	TIIB	107 - 13
TN53	♦SPR	146 - 59
TN54	♦SPR	138 - 73
TN59	♦SPR	146 - 60
		254 - 9
TN60	♦SPR	138 - 74
		254 - 10
TN61	♦SPR	146 - 61
		254 - 11
TN62	♦SPR	138 - 75
		254 - 12
TN63	♦SPR	144 -104
		244 - 77
TN64	♦SPR	137 - 62
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TN79	♦SPR	145 - 54
TN80	♦SPR	138 - 3
TN81	♦SPR	147 - 15
TN3200	♦SPR	115 - 12
TN3866	♦TIIC	194 - 16
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TN4117A	TSC	158 - 40
TN4118	TSC	158 - 41
TN4118A	TSC	158 - 42
TN4119	TSC	158 - 43
TN4119A	TSC	158 - 44
TN4338	TSC	158 - 45
TN4339	TSC	158 - 46
TP3638	♦SPR	103 - 90
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TP3638A	♦SPR	104 - 2
		257 - 39
TP4257	♦SPR	96 - 46
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TP4258	♦SPR	96 - 52
		266 - 83
TP5114	TSC	151 - 61
TP5115	TSC	151 - 62
TP5116	TSC	151 - 63
TPS6512	♦SPR	132 -109
TPS6513	♦SPR	132 -110
TPS6514	♦SPR	133 - 1
TPS6515	♦SPR	133 - 2
TPS6516	♦SPR	103 - 37
TPS6517	♦SPR	103 - 38
TPS6518	♦SPR	103 - 39
TPS6519	♦SPR	103 - 40
TPS6522	♦SPR	103 - 41
TPS6523	♦SPR	103 - 42
TQ59	♦SPR	108 - 78
		254 - 16
TQ60	♦SPR	106 - 62
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TQ61	♦SPR	108 - 79
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TQ62	♦SPR	106 - 63
		254 - 19
TQ63	♦SPR	108 - 80
		254 - 20
TQ64	♦SPR	106 - 64
		254 - 21
TR03	STI	91 - 67
TR04	STI	91 - 80
TR05	STI	91 - 68
TR07	STI	91 - 69
TR08	STI	91 - 81
TR09	STI	91 - 71
TR10	STI	84 - 2
TR11	STI	83 - 19
TR12	STI	80 - 38
TR13	STI	80 - 39

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TR15	STI	83 - 20
TR16	STI	83 - 21
TR17	STI	83 - 22
TR18	STI	80 - 45
TR19	STI	83 - 52
TR20	STI	81 - 84
TR21	STI	83 - 23
TR34	STI	82 - 76
TR35	STI	79 - 9
TR43	STI	84 - 97
TR43A	STI	84 - 70
TR44	STI	84 - 94
TR45	STI	84 - 84
TR63	STI	81 - 91
TR64	STI	81 - 96
TR65	STI	81-107
TR77	STI	78 - 86
TR81	STI	84 - 3
TR87	STI	80 - 46
TR88	STI	80 - 41
TR104	STI	84 - 32
TR105	STI	78 - 88
TR109	STI	79 - 2
TR123	STI	85 - 46
TR139	STI	78 - 89
TR167	STI	91 - 51
TR182	STI	91 - 78
TR183	STI	91 - 88
TR184	STI	91 - 93
TR193	STI	91 - 20
TR194	STI	91 - 17
TR211	STI	91 - 21
TR212	STI	91 - 25
TR213	STI	91 - 42
TR214	STI	91-109
TR215	STI	84 - 33
TR216	STI	91 - 18
TR217	STI	79 - 3
TR218	STI	78 - 90
TR269	STI	82 - 93
TR320	STI	84 - 98
TR321	STI	85 - 3
TR323	STI	84 - 99
TR381	STI	86 - 82
TR382	STI	86 - 88
TR383	STI	87 - 93
TR396	STI	85 - 47
TR460	STI	86 - 83
TR461	STI	86 - 84
TR482	STI	85 - 6
TR508	STI	85 - 7
TR526	STI	85 - 1
TR527	STI	85 - 4
TR650	STI	84 - 92
TR653	STI	84 - 93
TR721	STI	85 - 2
TR722	STI	84-100
TR758A	STI	81 - 89
TR759	STI	82 - 6
TR760	STI	79 - 17
TR761	STI	83 - 64
TR762	STI	83 - 71
TR763	STI	79 - 25
TR764	STI	85 - 82
TR792	STI	82 - 10
TR801	STI	81 - 74
TR802	STI	81 - 75
TR803	STI	81 - 76
TR804	STI	81 - 77
TR-C44	STI	85 - 48
TR-C45	STI	85 - 16
TR-C70	STI	84 - 4
TR-C71	STI	84 - 5
TR-C72	STI	84 - 6
TRM13	STI	80 - 42
TRM14	STI	80 - 43
TRM15	STI	83 - 24
TRM16	STI	83 - 25
TRM17	STI	83 - 26
TRM21	STI	83 - 27
TRM34	STI	79 - 7
TRM81	STI	80 - 44
TRM5505	STI	190 - 13
TRS25X5	SSI	199 - 69
	STI	
TRS25X	SSI	198 - 54
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TRS30X5	SSI	199 - 70
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TRS30X	SSI	198 - 55
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TRS35X5	SSI	199 - 71
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TRS35X	SSI	198 - 56
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TRS100	SSI	141 - 39
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TRS100A	STI	140-109
TRS100HC	SSI	197 - 79
	STI	
TRS101	SSI	141 - 40
	STI	
TRS120	SSI	140-110
	STI	
TRS125HC	SSI	197 - 80
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TRS140	SSI	141 - 1
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TRS140HP	STI	194 - 17
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TRS150HC	SSI	197 - 81
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TRS160HP	SSI	194 - 18
	STI	
TRS160MP	SSI	188 - 29
	STI	
TRS175HC	SSI	197 - 82
	STI	
TRS180	SSI	141 - 3
	STI	
TRS180HP	SSI	194 - 19
	STI	
TRS180MP	SSI	188 - 30
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TRS200	SSI	141 - 4
	STI	
TRS200HC	SSI	197 - 83
	STI	
TRS200HP	SSI	194 - 20
	STI	
TRS200MP	SSI	188 - 31
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TRS225	SSI	141 - 5
	STI	
TRS225HP	SSI	194 - 21
	STI	
TRS225MP	SSI	188 - 32
	STI	
TRS250	SSI	141 - 6
	STI	
TRS250HP	SSI	194 - 22
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TRS250MP	SSI	188 - 33
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TRS275	SSI	141 - 7
	STI	
TRS275HP	SSI	194 - 23
	STI	
TRS275MP	SSI	188 - 34
	STI	
TRS301	SSI	141 - 8
	STI	
TRS301HP	SSI	194 - 24
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TRS301LC	SSI	189 - 42
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TRS301MP	SSI	188 - 35
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TRS325	SSI	141 - 9
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TRS325HP	SSI	194 - 25
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TRS325MP	SSI	188 - 36
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TRS350	SSI	141 - 10
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TRS350HP	SSI	194 - 26
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TRS350MP	SSI	188 - 37
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TRS375	SSI	141 - 11
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TRS375HP	SSI	194 - 27
	STI	
TRS375MP	SSI	188 - 38
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TRS401	SSI	141 - 12
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TRS401HP	SSI	194 - 28
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TRS401LC	SSI	189 - 43
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TRS401MP	SSI	188 - 39
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TRS425	SSI	141 - 13
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TRS425HP	SSI	194 - 29
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TRS425MP	SSI	188 - 40
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TRS450	SSI	141 - 14
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TRS451	SSI	141 - 15
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TRS451MP	SSI	188 - 41
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TRS475	SSI	141 - 16
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TRS475MP	SSI	188 - 42
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TRS501	SSI	141 - 17
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TRS501LC	STI	188 - 97
TRS501MP	SSI	188 - 43
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TRS525	SSI	141 - 18
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TRS525MP	SSI	188 - 44
	STI	
TRS550	SSI	141 - 19
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TRS550MP	SSI	188 - 45
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TRS575	SSI	141 - 20
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TRS575MP	SSI	188 - 46
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TRS601	SSI	141 - 21
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TRS601LC	STI	188 - 98
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TRS1004	SSI	191 -103
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TRS1004LP	STI	191 -104
TRS1005	SSI	199 - 72
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TRS1005LP	STI	199 - 73
TRS1204	SSI	191 -105
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TRS1204LP	STI	191 -106
TRS1205	SSI	199 - 74
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TRS1205LP	STI	199 - 75
TRS1404	SSI	191 -107
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TRS1404LP	STI	191 -108
TRS1405	SSI	199 - 76
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TRS1405LP	STI	199 - 77
TRS1604	SSI	191 -109
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TRS1604LP	STI	191 -110
TRS1605	SSI	199 - 78
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TRS1605LP	STI	199 - 79
TRS1804	SSI	192 - 1
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TRS1804LP	STI	192 - 2
TRS1805	SSI	199 - 80
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TRS1805LP	STI	199 - 81
TRS2004	SSI	192 - 3
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TRS2004LP	STI	192 - 4
TRS2005	SSI	199 - 82
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TRS2005LP	STI	199 - 83
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TRS2254	SSI	192 - 5
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TRS2254LP	STI	192 - 6
TRS2255	SSI	199 - 84
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TRS2255LP	STI	199 - 85
TRS2504	SSI	192 - 7
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TRS2504LP	STI	192 - 8
TRS2505	SSI	199 - 86
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TRS2505LP	STI	199 - 87
TRS2754	SSI	192 - 9
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TRS2754LP	STI	192 - 10
TRS2755	SSI	199 - 88
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TRS2755LP	STI	199 - 89
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TRS2805S	SSI	199 - 90
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TRS3012	SSI	124 -107
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TRS3014	SSI	192 - 12
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TRS3254	SSI	192 - 15
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TRS3255LP	STI	199 - 94
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TRS3505LP	STI	199 - 96
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TRS3605S	SSI	199 - 97
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TRS3742	SSI	198 - 57
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TRS3754	SSI	192 - 20
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TRS3754LP	STI	192 - 21
TRS3755	SSI	199 - 98
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TRS4004	SSI	192 - 22
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TRS4005	SSI	199 -100
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TRS4006	SSI	203 - 32
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TRS4014	SSI	192 - 23
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TRS4014LP	STI	192 - 24
TRS4014S	SSI	192 - 25
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TRS4015	SSI	199 -101
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TRS4015LC	STI	190 - 16
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TRS4016LC	STI	190 - 17
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TRS4254	SSI	192 - 26
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TRS4254LP	STI	192 - 27
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TRS4255LP	STI	199 -105
TRS4404S	SSI	192 - 28
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TRS4501	SSI	125 - 2
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TRS4502	SSI	125 - 3
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TRS4504	SSI	192 - 29
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TRS4504LP	STI	192 - 30
TRS4505	SSI	199 -106
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TRS4505LP	STI	199 -107
TRS4506	SSI	203 - 34
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TRS4754	SSI	192 - 31
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TRS4754LP	STI	192 - 32
TRS4755	SSI	199 -108
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TRS4755LP	STI	199 -109
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TRS4805S	SSI	199 -110
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TRS4926	SSI	198 - 58
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TRS5012	SSI	125 - 5
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TRS5014	SSI	192 - 34
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TRS5015	SSI	200 - 1
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TRS5015LC	STI	190 - 18
TRS5016LC	STI	190 - 19
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TRS5205S	SSI	200 - 2
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TRS5254	SSI	192 - 36
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TRS5255	SSI	200 - 3
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TRS5404S	SSI	192 - 37
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TRS5501	SSI	125 - 6
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TRS5502	SSI	125 - 7
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TRS5504	SSI	192 - 38
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TRS5505	SSI	200 - 5
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TRS5754	SSI	192 - 39
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TRS5755	SSI	200 - 6
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TRS5804S	SSI	192 - 40
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TRS5805S	SSI	200 - 7
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TRS6006	SSI	203 - 36
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TRS6011	SSI	125 - 8
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TRS6012	SSI	125 - 9
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TRS6014	SSI	192 - 41
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TRS6015	SSI	200 - 8
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TRS6015LC	STI	190 - 20
TRS6016LC	STI	190 - 21
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TRS6205S	SSI	200 - 9
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TRS6604S	SSI	192 - 44
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TRS6605S	SSI	200 - 11
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TRS7006	SSI	203 - 37
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TRS7014	SSI	192 - 45
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TRS7015	SSI	200 - 12
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TRS7015S	SSI	200 - 13
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TRSP25X	SSI	177 - 87
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TRSP30X	SSI	177 - 88
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TRSP2006	SSI	179 - 19
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TRSP2755	SSI	176 - 17
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TRSP2755S	SSI	176 - 18
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TRSP3006	SSI	179 - 20
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TRSP3014	SSI	175 - 70
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TRSP3743	SSI	177 - 89
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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VTT3121	♦VAC	276-21
VTT3122	♦VAC	276-22
VTT3123	♦VAC	276-23
VTT9310	♦VAC	276-24
VTT9311	♦VAC	276-25
VTT9312	♦VAC	276-26
VTT9313	♦VAC	276-27
VTT9320	♦VAC	276-28
VTT9321	♦VAC	276-29
VTT9322	♦VAC	276-30
VTT9323	♦VAC	276-31
WK5457	♦WAB	158-103
WK5458	♦WAB	158-104
WK5459	♦WAB	158-105
XB50-28	♦CTR	219-104
XB433	TIIB	190-57
ZDT10	♦FERB	126-70
		279-1
ZDT11	♦FERB	126-71
		273-98
ZDT20	♦FERB	126-72
		273-99
ZDT21	♦FERB	126-73
		273-100
ZDT30	♦FERB	114-62
		279-2
ZDT31	♦FERB	114-63
		279-3
ZDT40	♦FERB	127-90
		273-101
ZDT41	♦FERB	127-91
		273-102
ZDT42	♦FERB	127-92
		273-103
ZDT44	♦FERB	127-93
		273-104
ZDT45	♦FERB	127-94
		273-105
ZM100	♦FERB	276-32
ZM110	♦FERB	276-33
ZT20	♦FERB	131-88
		255-57
ZT21	♦FERB	131-89
		255-58
ZT22	♦FERB	131-90
		255-59
ZT23	♦FERB	131-91
		255-60
ZT24	♦FERB	131-92
		255-61
ZT40	♦FERB	125-90
		255-62
ZT41	♦FERB	125-91
		255-63
ZT42	♦FERB	125-92
		255-64
ZT43	♦FERB	125-93
		255-65
ZT44	♦FERB	125-94
		255-66
ZT60	FERB	131-94
		255-80
ZT61	FERB	131-95
		255-81
ZT62	FERB	131-96
		255-82
ZT63	FERB	131-97
		255-83
ZT64	FERB	131-98
		255-84
ZT66	FERB	131-99
		255-85
ZT68	FERB	144-10
		255-86
ZT80	♦FERB	127-20
		255-87

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
ZT81	♦FERB	127-21
		255-88
ZT82	♦FERB	127-22
		255-89
ZT83	♦FERB	127-23
		255-90
ZT84	♦FERB	127-24
		255-91
ZT86	♦FERB	127-25
		255-92
ZT87	♦FERB	127-26
		255-93
ZT88	♦FERB	127-27
		255-94
ZT89	♦FERB	127-28
		255-95
ZT90	♦FERB	194-102
ZT91	♦FERB	194-103
ZT92	♦FERB	194-104
ZT93	♦FERB	194-105
ZT94	♦FERB	194-106
ZT95	♦FERB	194-107
ZT110	♦FERB	127-29
		255-96
ZT111	♦FERB	127-30
		255-97
ZT112	♦FERB	127-31
		255-98
ZT113	♦FERB	127-32
		255-99
ZT114	♦FERB	127-33
		255-100
ZT116	♦FERB	127-34
		255-101
ZT117	♦FERB	127-35
		255-102
ZT118	♦FERB	127-36
		255-103
ZT119	♦FERB	127-37
		255-104
ZT152	♦FERB	99-36
ZT180	♦FERB	100-22
		257-51
ZT181	♦FERB	100-23
		257-52
ZT182	♦FERB	100-24
		257-53
ZT183	♦FERB	100-25
		257-54
ZT184	♦FERB	100-26
		257-55
ZT187	♦FERB	100-27
		257-56
ZT189	♦FERB	100-28
		257-57
ZT202	♦FERB	125-61
ZT203	♦FERB	125-62
ZT204	♦FERB	125-63
ZT210	FERB	177-31
ZT211	FERB	177-32
ZT280	♦FERB	100-29
		257-58
ZT281	♦FERB	100-30
		257-59
ZT282	♦FERB	100-31
		257-60
ZT283	♦FERB	100-32
		257-61
ZT284	♦FERB	100-33
		257-62
ZT287	♦FERB	100-34
		257-63
ZT402	♦FERB	125-64
ZT403	♦FERB	125-65
ZT404	♦FERB	125-66
ZT600	♦FERB	147-58
		262-17
ZT696	♦FERB	141-47
ZT697	♦FERB	141-71
ZT706	FERB	127-38
ZT706A	FERB	127-39
		259-47
ZT708	♦FERB	134-51
ZT709	♦FERB	129-16
		266-53
ZT1479	♦FERB	194-30
		239-75
ZT1480	♦FERB	194-31
		239-76
ZT1481	♦FERB	194-32
		239-77
ZT1482	♦FERB	194-33
		239-78
ZT1483	♦FERB	203-86
ZT1484	♦FERB	203-87
ZT1485	♦FERB	203-88
ZT1486	♦FERB	203-89
ZT1487	♦FERB	214-34
		239-33
ZT1488	♦FERB	214-35
		239-34
ZT1489	♦FERB	214-36
		239-35
ZT1490	♦FERB	214-37
		239-36
ZT1613	♦FERB	145-87
ZT1700	♦FERB	194-34
ZT1701	♦FERB	203-90
ZT1702	FERB	214-14
ZT1708	♦FERB	127-40
		259-48
ZT1711	♦FERB	145-109
ZT2102	♦FERB	188-54
ZT2205	♦FERB	127-41
		259-49
ZT2206	♦FERB	127-42
		259-50
ZT2270	♦FERB	194-35
ZT2368	FERB	134-95
		264-64
ZT2369	FERB	134-96
		265-99
ZT2369A	FERB	134-97
		265-100
ZT2475	♦FERB	129-17
		266-56
ZT2476	♦FERB	142-11
		261-17
ZT2477	♦FERB	142-12
		261-18
ZT2708	♦FERB	120-4
ZT2857	FERB	120-85
ZT2938	♦FERB	128-67
		266-14
ZT3440	FERB	194-108
ZT3441	FERB	203-91
ZT3442	FERB	219-105
ZTX107	♦FERB	125-95
ZTX108	♦FERB	125-96
ZTX109	♦FERB	125-97
ZTX114	♦FERB	128-68
ZTX300	♦FERB	126-74
ZTX301	♦FERB	126-75
ZTX302	♦FERB	126-76
ZTX303	♦FERB	126-77
ZTX304	♦FERB	126-78
ZTX310	♦FERB	127-43
		258-19
ZTX311	♦FERB	127-44
		258-20
ZTX312	♦FERB	128-93
		264-77
ZTX313	♦FERB	128-105
		265-101
ZTX314	♦FERB	128-106
		265-102
ZTX320	♦FERB	123-51
ZTX321	♦FERB	123-52
ZTX325	♦FERB	120-86
ZTX326	♦FERB	120-87
ZTX327	♦FERB	139-87
ZTX330	♦FERB	122-57
ZTX331	♦FERB	122-58
ZTX341	♦FERB	124-29
ZTX342	♦FERB	124-30
ZTX360	♦FERB	139-40
		261-98
ZTX500	♦FERB	100-35
ZTX501	♦FERB	100-36
ZTX502	♦FERB	100-37
ZTX503	♦FERB	100-38
ZTX504	♦FERB	100-39
ZTX510	♦FERB	98-59
		265-16
ZTX530	♦FERB	97-75
ZTX531	♦FERB	97-76

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	2N273			2.5m	#J				100m	6.0uØ								FA	OV4	F
2	GT20					25	25 Ø	25		10uØ	5.0Ø	1.0m	42	500nb		15	35p	A	TO5	
3	2N130A		700k	1.6m	#J	45	40	12	100m	15uØ	6.0Ø	1.0m	26	17u	900	3.5		FA	OV16	A
4	2N215		700k	2.5m	ØA	30			50m										TO1	A
5	2N464		700k	2.5m	#J	45	40	12	100m	15uØ	6.0Ø	1.0m	26	17u	900	3.5		FA	TO5	A
6	2N131A		800k	1.6m	#J	45	30	12	100m	15uØ	6.0Ø	1.0m	45	18u	1.4k	4.3		FA	OV16	A
7	2N133A		800k	1.6m	#J	35	20	12	100m	15uØ	6.0Ø	1.0m	50	19u	2.5k	5.5		FA	OV16	A
8	2N422		800k	2.5m	#J	35	20	12	100m	15uØ	6.0Ø	1.0m	50	19u	2.5k	5.5		FAØ	TO5	A
9	2N465		800k	2.5m	#J	45	30	12	100m	15uØ	6.0Ø	1.0m	45	18u	1.4k	4.3		FA	TO5	A
10	2N633		800k	2.8m	#J	35	30	6.0	50m	25uØ	6.0Ø	10m	60					FA	TO5	A
11	2N272		1.0M	2.5m	#J		20		100m	6.0uØ$	6.0Ø	1.0m	90	25u	3.0k		40p	FA	OV4	F
12	2N466		1.0M	2.5m	#J	35	20	12	100m	15uØ	6.0Ø	1.0m	90	20u	3.0k	5.6		FA	TO5	A
13	2N632		1.0M	2.8m	#J	30	24	6.0	50m	25uØ	6.0Ø	10m	100					FA	TO5	A
14	2N467		1.2M	2.5m	#J	35	15	12	100m	15uØ	6.0Ø	1.0m	180	22u	5.5k	6.2		FA	TO5	A
15	2N631		1.2M	2.8m	#J	25	20	6.0	50m	25uØ	6.0Ø	10m	150					FA	TO5	A
16	2N413		2.4M	2.5m	#J	30	18	20	200m	5.0uØ	6.0Ø	1.0m	30	600nb	25	3.0	12p	FAØ	TO5	A
17	2N413A		2.5M	2.5m	#J	30	15	20	200m	5.0uØ	6.0Ø	1.0m	30	600nb	25	3.0	12p	FA	TO5	A
18	2N481		3.0M	2.5m	#J	12			20m	10u	6.0	1.0m	50				14p	FA	TO5	A
19	2N1471		3.0MΔ	3.3m	#J	12	12	7.0	200m	5.0uØ	6.0Ø	1.0mØ	160				18p	AΔ	TO5	A
20	2N482		3.5M	2.5m	#J	12			20m	10u	6.0	1.0m	50				12p	FA	TO5	A
21	2N425†		4.0M	2.5m	#J	30	20	20	400m	4.0uØ	.25Ø	1.0mΔ	20 †Δ				14p	FA	TO5	A
22	2N658		5.0M	2.8m	#J	25	16	12	1.0	25u	.35Ø	10mΔ	40 †				12p	FAΔ	TO5	A
23	2N483		5.5M	2.5m	#J	12			20m	10u	6.0	1.0m	60				12p	FA	TO5	A
24	2N426†		6.0M	2.5m	#J	30	18	20	400m	4.0uØ	.25Ø	1.0mΔ	30 †Δ				14p	FA	TO5	A
25	2N414		7.0M	2.5m	#J	30	15	20	200m	5.0uØ	6.0Ø	1.0m	60	620nb	25	5.0	12p	FAØ	TO5	A
26	2N414A		7.0M	2.5m	#J	30	15	20	200m	5.0uØ	6.0Ø	1.0m	60	620nb	25	5.0	12p	FA	TO5	A
27	2N485		7.5M	2.5m	#J	12			10m	10u	6.0	1.0m	50				12p	FA	TO5	A
28	2N662		8.0M	2.8m	#J	25	10	12	1.0	25u	.35Ø	10mΔ	50 †				12p	FAΔ	TO5	A
29	2N271		10M	2.5m	#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	45	1.0ub	25	7.0	12p$	FAØ	OV4	F
30	2N271A		10M	2.5m	#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	45	1.0ub	25	7.0	14p$Ø	FA	OV4	F
31	2N415		10M	2.5m	#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	80	650nb	25	7.0	12p	FA	TO5	A
32	2N415A		10M	2.5m	#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	80	650nb	25	7.0	12p	FA	TO5	A
33	2N416		10M	2.5m	#J	30	12	20	200m	5.0uØ	6.0Ø	1.0m	80	650nb	25	7.0	12p	FAØ	TO5	A
34	2N484		10M	2.5m	#J	12			20m	10u	6.0	1.0m	90				12p	FA	TO5	A
35	2N659		10M	2.8m	#J	25	14	12	1.0	25u	.35Ø	10mΔ	55 †				12p	FAΔ	TO5	A
36	2N427†		11M	2.5m	#J	30	15	20	400m	4.0uØ	.25Ø	1.0mΔ	40 †Δ				14p	FA	TO5	A
37	2N486		12M	2.5m	#J	12			10m	10u	6.0	1.0m	100				12p	FA	TO5	A
38	2N660		15M	2.8m	#J	25	11	12	1.0	25u	.35Ø	10mΔ	65 †				12p	FAΔ	TO5	A
39	2N428†		17M	2.5m	#J	30	12	20	400m	4.0uØ	.25Ø	1.0mΔ	60 †Δ				14p	FA	TO5	A
40	2N417		20M	2.5m	#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	140	770nb	26	11	12p	FAØ	TO5	A
41	2N661		20M	2.8m	#J	25	9.0	12	1.0	25u	.35Ø	10mΔ	75 †				12p	FAΔ	TO5	A
42	2N1017		20M	2.5m	#J	30	10	20	400m	25u	.35Ø	10mΔ	30 †				12p	FAΔ	TO5	A
43	2N231	9.0m*	20M*		*J	4.5	4.5		3.0m	3.0u	3.0	500mØ	19 Δ	5.0uØb	100 Ø		5.5pØ	S	TO24	F
44♦	2N232	9.0m*	30M*		*J	4.5	4.5		3.0m	6.0uØ	3.0Ø	500uØ	9.0 Δ	5.0uØb	100 Ø		6.0pØ	S	TO24	F
45	JAN2N220	20m		434u	#S	30		12		12u	4.0	500u	40 Δ	800nØb	65 Ø	15 Ø	50pØ	Ø	TO1	A
46	OC60	20m		666u	ØJ	7.0	3.0	7.0	5.0m	1.5uØ	2.0Ø	3.8mØ	75					A	R19	
47#	OC57	20m*	10kΔ	666u	ØJ	7.0	3.0	7.0	10m		.50Ø	250u	35	60u	2.9k	17	60p	A	R19	
48	OC58	20m*	10kΔ	666u	ØJ	7.0	3.0	7.0	10m		.50Ø	250u	55	80u	4.0k	17	60p	A	R19	
49	2N175	20m	850k	3.3m	ØJ	10		10	2.0m	12u	4.0Ø	500uØ	65				36p	Ø	TO40	A
50	2N220	20m	850k	3.3m	ØJ	10		10	2.0m	12u	4.0Ø	500uØ	65	25u	3.5k	944	36p	AØ	TO1	A
51	OC59	20m	2.2M	666u	ØJ	7.0	3.0	7.0	5.0m	3.0uØ	.50Ø	250u	80	100u	5.1k	17	60p	A	R19	
52	2N344	20m†	50M*	666u	*J	5.0	5.0		5.0m	3.0u	3.0Ø	500uØ	22	5.0ub	100		6.0p	SΔ	TO24	F
53	2N345	20m†	50M*	666u	*J	5.0	5.0		5.0m	3.0u	3.0Ø	500uØ	66	5.0ub	100		6.0p	SΔ	TO24	F
54	2N346	20m†	75M*	666u	*J	5.0	5.0		5.0m	3.0u	3.0Ø	500uØ	10 Δ	5.0ub	100		6.0p	SΔ	TO24	F
55	2N1499†	25m*		625u	#S	20	15 Ø	2.0	50m	100u	25Ø	10mØ	35 †				1.5p	AD	TO9	A
56	JAN2N240	25m	25M§Δ	416u	#J	6.0	6.0	6.0	15m	10u	3.0Ø	500uØ	16 †Δ				6pØ	Δ	R143	F
57	2N128	25m	28M§Δ		#S	10	4.5 Ø	10	5.0m	3.0u	3.0Ø	500uØ	19 Δ	1.5ub	75		5.0pØ	D	TO24	F
58	2N1122†	25m*	40M§Δ	625u	#J	12	11 Ø		50m	5.0uØ	.25Ø	10mØ	25 †Δ				6pØ	MAØ	TO24	A
59	2N1122A†	25m*	40M§Δ	625u	#J	15	14 Ø		50m	5.0uØ	.25Ø	10mØ	25 †Δ				6pØ	MAØ	TO24	A
60	JAN2N128	25m	45M*Δ	417u	#A	10		10		4.0uØ	3.0Ø	500uØ	19 Δ	4.0uØb	90 Ø		5.0pØ		TO24	F
61	2N393†	25m*	50.M§	455u	#J	6.0	6.0	6.0	50m	5.0u	3.0	.50m	155				3.5p	MAØ	TO24	
62	2N1427†	25m*	60M*	625u	#J	6.0	6.0 Ø	6.0	50m	5.0u	3.0	500u	120	1.0ub	55	20	3.5p	MEØ	TO24	A
63	2N2451	25m*	80M§Δ	454u	#S	6.0	5.0	6.0	50m	5.0u	3.0Ø	500uØ	40 Δ				6.0pØ	Δ	TO24	A
64	2N503	25m*	168M§Δ		#J	20	20 §	.50		100u	10Ø	2.0m	45				1.0p	DAØ	TO9	A
65	2N502A	25m	220M§	455u	#J	30	30 Ø	.50		100u	10Ø	2.0m	45				1.0p	DAØ	TO9	A
66	2N252	30m			*A		16		5.0m	10u							1.0p	GD	OV9	
67	2N308	30m			*A	20			5.0m	10u							1.0p	GD	OV9	
68	2N309	30m			*A	20			5.0m	10u							1.0p	GD	OV9	
69	2N310	30m			*A	30			5.0m	10u							1.0p	GD	OV9	
70	2N129	30m	30M*	500u	#J		4.5	10	5.0m	3.0u	3.0Ø	500uØ	20	2.0ub	70		4.0p	S	TO24	
71	2N240	30m	30MΔ*	500u	#J		6.0		15m	3.0uØ	3.0	500uØ	30	1.5ub	66		2.9p	SΔ	TO24	F
72	2N1108	30mØ	35M		#J	16		1.0	5.0m	10uØ							1.5p		OV9a	A
73	2N1109	30mØ	35M		#J	16		1.0	5.0m	10uØ							1.5p		OV9a	A
74	2N1110	30mØ	35M		#J	16		1.0	5.0m	10uØ							1.5p		OV9a	A
75	2N1111	30mØ	35M		#J	20		1.0	5.0m	10uØ							1.1p		OV9a	A
76	2N1111A	30mØ	35.M		#J	20			5.0m	10uØ	6.0	.50mØ	29				1.5p	GD	TO22	
77	2N1111B	30mØ	35.M		#J	20			5.0m	10uØ	6.0	.50mØ	29				1.5p	GD	TO22	
78	2N1107	30mØ	40M		#J	16		1.0	5.0m	10uØ							1.5p		OV9a	A
79	2N504	30m*	50M*Δ	750u	#S	35	25	1.0	50m	10uØ	12Ø	1.0m	16 Δ	1.0uØb	40 Ø		2.5pØ		TO1	A
80	2N499	30m*	170M§	750u	#J	30	18	.50	50m	100u							1.3p	DA	TO1	A
81	2N588	30m*	250M*	750u	#J	15	15 Ø	.50	50m	15u								DAØ	TO30	A
82	2N5044	30m	2.5G§Ø	1.2m	♦S	15	7.0	.30	30m	6.0u	5.0Ø	3.0mØ	150 †Ø				1p$	Ø	TO72	G
83	2N5043	30m	3.0G§Ø	1.2m	♦S	15	7.0	.30	30m	6.0u	5.0Ø	3.0mØ	150 †Ø				1p$	Ø	TO72	G
84	2N768	35m		467m	#S	12	10 Ø		100m										TO18	A
85	2N77	35m	700k		#A	25			15m	10uØ								AØ	TO2	A
86	TR77	35m	.70M		*A	25			15m	10uØ	4.0Ø	.70mØ	55				40p	A		
87	2N105	35m	750k		#A	25			15m	5.0uØ								AØ	TO2	A
88	TR105	35m	.75M		*A	25			15m	5.0uØ	4.0Ø	.70mØ	55				17p	A		
89	TR139	35m	4.5M		ØA	16		12	15m	6.0uØ	9.0Ø	.50mØ	45				9.5p	A		
90	TR218	35m	4.5M		ØA	16		12	15m	6.0uØ	9.0Ø	500uØ	45				9.5p	A		
91	2N139	35m	13.MØ		ØA	16	12	.50	15m	10u	9.0Ø	1.0mØ	48 Ø		1.0k		9.5p	AΔ	TO40	A
92	2N218	35m	13.MØ		ØA	16	12	.50	15m	10u	9.0Ø	1.0mØ	48 Ø		1.0k		9.5p	AΔ	TO1	A
93#	2SA107	35m	20.M		#S	6.0			10m	10u	3.0	1.0mØ	40					D	TO44	
94	JAN2N393	35m	30M§Δ	476u	#J	10	6.0	10	50m	5.0uØ	3.0Ø	500uØ	40 Δ				4.0pØ		R143	F
95	JAN2N1411	35m	30M§Δ	460u	#J	8.0		8.0	50m	5.0uØ	1.0Ø	50mØ	20 †Δ				6.0pØ	Δ	R143	F
96#	2SA106	35m	30.M		#S	6.0			10m	10u	3.0	1.0mØ	50					D	TO44	
97#	2SA105	35m	75.M		#S	6.0			10m	10u	3.0	1.0mØ	50					D	TO44	
98	2N769	35m	100M§Δ	467u	#S	12	7.0	2.0	100m	3.0uØ	.50Ø	20mØ	25 †Δ				3.0pØ	Δ	TO18	A
99	2N1785	45m	50.M*	1.3m	#S	10	10 Ø	1.0	50m	10uØ	6.0Ø	1.0mØ	40 †Δ	2.0u	40		3pØ	ME	TO9	A
100	2N1786	45m	50.M*	1.3m	#S	10	10 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	15 †Δ	2.0u	40		3pØ	ME	TO9	A
101	2N1787	45m	50.M*	1.3m	#S	15	15 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	25 †Δ	2.0u	40		3pØ	ME	TO9	A
102	2N34	50m			*A	25			8.0m		6.0Ø	1.0m	40 †						OV15a	AE
103	2N36	50m			Ø	20			8.0m		6.0	1.0m	45						OV14	A
104	2N37	50m			Ø	20			8.0m		6.0	1.0m	30						TO22	A
105	2N38	50m			Ø	20			8.0m		6.0	1.0m	15						TO22	A
106	2N108	50m			Ø	20			15m		6.0	1.0m							R108	A
107	2N2238	50m			ØA	20				20u									OV9b	A
108	2N500	50m		833u	#J	20	15	.50		100u							2.5pØ	DA	TO1	A
109	2N1754†	50m		830u	#S	13	13 Ø		100m	5.0uØ	.25Ø	10mØ	20 †Δ				3.0pØ		TO9	A
110#	2SA295	50m		900u	ØJ	15	15	15	50m	15u	1.0Ø	10mØ	50 †					MDΔ	R48	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1#	2SB303	50m			ØJ	30		25	20m	14u								AØ	TO1	
2	TR109	50m			*A	25			70m	10u	1.0Ø	50mØ	70					A		
3	TR217	50m			*A	25			70m	10u	1.0Ø	50mØ	70					A		
4#	2SB121	50m	.50M	833u	#J	105	60 §	50	100m	14uØ	.35Ø	5.0mØ	60 †				8.0p	A	TO1	
5	2N34A	50m	.60M		Ø	25			8.0m		6.0	1.0m	60						OV15	
6	2N506	50m	600kΔ	1.0m	#J	40			100m	125u	.50Ø	10mØ	25 †Δ					A	TO22	F
7	TRM34	50m	600k	1.0m	ØJ	40			50m	5.0uØ	6.0	1.0m	40				15p			
8	2N591	50m	700k	2.8m	ØA	32	32		20m	7.0uØ	12Ø	2.0m	70					A	TO1	A
9	TR35	50m	800k	1.0m	ØJ	40			50m	5.0uØ	6.0	1.0m	40				18p			
10#	2SB39	50m	.85M	833u	#J	10		10	2.0m	10u	4.0Ø	.50m	65	25u	3.5k	9.4	40p	AØ	TO1	
11	2N107	50m	1.0M	5.0m	*	12			10m	10u	5.0	1.0m	19	1.0ub	32	3.0	40p	D	R31	A
12	2N1265/5	50m	1.0M	833u	#J	10		10	100m		6.0Ø	1.0m	75					A	TO5	
13	2N535	50m	2.0M		#J	20	20	20	20m	10uØ	5.0Ø	1.0mØ	100	1.0uØb	50 Ø	4.0		AØ	TO23	F
14	2N535A	50m	2.0M		#J	20	20	20	20m	10uØ	5.0Ø	1.0mØ	100	1.0uØb	50 Ø	4.0		AØ	TO23	F
15	2N535B	50m	2.0M		#J	20	20	20	20m	10uØ	5.0Ø	1.0mØ	100	1.0uØb	50 Ø	4.0		AØ	TO23	F
16	2N536	50m	2.0M		#J	20	20	20	30m	10uØ	1.0Ø	30mØ	150 †					A	TO23	F
17	TR760	50m	5.0M		Ø	15				1.0u	4.5	1.0m	40				14			
18#	2SA116	50m	12M		#S	30				10u	12	12m	1.5	60u				D	TO44	
19	2N398	50m	20M†Δ		*A	105	105	50		14uØ	.35Ø	5.0mØ	60					A	TO9	A
20#	2SA113	50m	20.M		#S	34			10m	7.0u	12	1.0mØ	45					A	TO44	
21#	2SA114	50m	20.M		#S	34			10m	7.0u	12	1.0mØ	40					A	TO44	
22#	2SA321	50m	25M	2.0m	ØJ	20		.50	10m	12u	6.0Ø	1.0m	40				3.0p	D	TO44	
23#	2SA115	50m	30M		#S	34				10u	7.0	12m	1.0	60u				A	TO44	
24#	2SA322	50m	30M	2.0m	ØJ	20		.50	10m	12u	6.0Ø	1.0m	40				3.0p	D	TO44	
25	TR763	50m	30.M		ØJ	6.0				1.0u	4.5	1.0m	200				14p	A		
26#	2SA219	50m	40.M		ØJ	20		.50	10m	12u	6.0	1.0m	50				2.5p	D	TO44	
27#	2SA221	50m	50.M		ØJ	20		.50	10m	12u	6.0	1.0m	75				2.5p	D	TO44	
28#	2SA251†	50m	50.M		ØJ	15	6.0	15	50m	5.0uØ	1.0Ø	15mØ	50 †				2.5p	MDΔ	R48	
29#	2SA408†	50m	50M	900u	ØJ	15	6.0	15	50m	5.0uØ	1.0Ø	15mØ	100 †				3.0p	MDΔ	R48	
30#	2SA223	50m	64.M		ØJ	20		.50	10m	12u	6.0	1.0m	50				2.5p	D	TO44	
31#	2SA222	50m	70M	2.0m	ØJ	20		.50	10m	12u	6.0	1.0m	130				2.5p	D	TO44	
32#	AF115	50m*	75M§	1.6m	ØJ	20	20	1.0	10m	8.0uØ	6.0Ø	1.0mØ	150					ADØ	TO7	
33#	AF116	50m*	75M§	1.6m	ØJ	20	20	1.0	10m	8.0uØ	6.0Ø	1.0mØ	150					ADØ	TO7	
34#	2SA252†	50m	80.M		ØJ	15	6.0	15	50m	5.0uØ	1.0Ø	15mØ	150 †				2.5p	MDΔ	R48	
35#	2SA409†	50m	80M	900u	ØJ	15	6.0	15	50m	5.0uØ	1.0Ø	15mØ	100 †				3.0p	MDΔ	R48	
36#	2SA118	50m	100M		#S	30				10u	12	12m	1.5	60u				D	TO44	
37#	2SA291	50m	100M	900u	ØJ	20			50m	5.0uØ	6.0Ø	4.0m	40				1.5p	MD	R48	
38#	2SA117	50m	110M		#S	30				10u	12	12m	1.5	40u				D	TO44	
39	JAN2N499	50m	120M§Δ	666u	#S	30	18	.50	50m	100u	9.0Ø	1.0m	10 Δ				2.5pØ		R139	A
40#	2SA292	50m	200M§	900u	ØJ	15			50m	5.0uØ	6.0Ø	4.0m	40				1.5p	MD	R48	
41#	2SA377	50m	230M§Δ	1.0m	ØJ		20	.40	5.0m	13uØ	6.0	1.0m	100				1.0p	AD	TO72	G
42#	2SA378	50m	290M§Δ	1.0m	ØJ		20	.40	5.0m	13uØ	6.0	1.0m	100				1.0p	AD	TO72	G
43#	2SA293	50m	300M§	900u	ØJ	15			50m	5.0uØ	6.0Ø	4.0m	40				1.5p	MD	R48	
44#	2SA379	50m	350M§Δ	1.0m	ØJ		20	.40	5.0m	13uØ	6.0	1.0m	100				1.0p	AD	TO72	G
45#	2SA294	50m	400M§	900u	ØJ	15			50m	5.0uØ	6.0Ø	4.0m	40				1.5p	MD	R48	
46	HEP639-RT	55m♦			#J	18	18 Ø§	.50	5.0m§	12u§	25		120 †						TO1	A
47	HEP640-RT	55m♦			#J	18	18 Ø§	.50	5.0m§	12u§	25		120 †						TO1	A
48	SWT993	55m	50m§	1.3m	ØJ	40	40 §	1.0	10m	8.0u	6.0Ø	1.0mØ	40 †Δ				3.0p	D	TO72	J
49#	2SA255	55m	5.0M		#J	12		.50	10m	10u	6.0	1.0m	50				10p	A	R18	
50#	2SA254	55m	10.M		#J	12		.50	10m	10u	6.0	1.0m	80				10p	A	R18	
51#	2SA259	55m	30.M		#♦	20		.50	10m	10uØ	6.0	1.0m	45				2.2p	D	R18	
52#	2SA258	55m	40.M		#J	20		.50	10m	10uØ	6.0	1.0m	45				2.2p	D	R18	
53#	2SA257	55m	50.M		#J	20		.50	10m	10uØ	6.0	1.0m	60				2.2p	D	R18	
54#	2SA256	55m	60.M		#J	20		.50	10m	10uØ	6.0	1.0m	75				2.2p	D	R18	
55	JAN2N501A†	60m		769u	#S	15	12 Ø	2.0		25u	.50Ø	10mØ	30 †Δ				3.0pØ		R139	A
56	2N1158	60m		769u	#S	20	20 Ø	.50	100m	5.0uØ	10	3.0m	5.7 Δ				3pØ		TO9	A
57	2N1744	60m		500u	#S	20	20 Ø	.20	50m	10uØ	10Ø	2.0mØ	10 †Δ				1.5pØ		TO9	A
58	2N1747	60m		800u	#S	20	20 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	10 †Δ				2.0pØ		TO9	A
59	2N1867	60m		800u	#S	35	35 Ø	.50	50m	10uØ	12Ø	1.0mØ	10 †Δ				2.5pØ		TO9	A
60#	2SA49	60m		1.2m	ØJ	18		12	5.0m	10u							11p	A	TO1	A
61#	2SA53	60m		1.2m	ØJ	18		12	5.0m	10u							11p	A	TO1	A
62#	AF109R	60m*		1.3m	#J	20	15	.30	10m	8.0u	12Ø	1.5mØ	50 †				1.5p	MEØ	TO72	AØ
63	SWT1728	60m	100m§	1.3m	ØJ	20	20 Ø	.50	10m	10uØ	6.0Ø	1.0mØ	40 †Δ				3.0p	D	TO39	A
64#	AF121	60m	270m§	1.3m	ØJ	25	25 §		10m	8.0uØ	10Ø	3.0m	30 †Δ				450f†	D	R90	J
65#	AF267	60m#	780m§	1.6m	#J	20	15	.30	10m	800n	10Ø	2.0mØ	10 †				500f	PLØ	X87	A
66	2N1745	60m	1.6M†Δ	800u	#S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	10 †Δ				1.5pØ		TO9	A
67	2N1868	60m	1.6M†Δ	800u	#S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	10 †Δ				1.5pØ		TO9	A
68	2N1743	60m	1.7MΔ	500u	♦S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	10 †Δ				1.5pØ		TO9	A
69#	2SA52	60m	7.0M	1.2m	ØJ	18		12	5.0m	10u							11p	A	TO1	A
70	2N1742	60m	10.MΔ	500u	♦S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	10 †Δ				1.5pØ	Ø	TO9	A
71#	2SA101	60m	15M	1.2m	ØJ	40		.50	10m	16uØ	6.0	1.0m	30				4.0p	D	TO1	
72#	2SA102	60m	25M	1.2m	ØJ	40		.50	10m	16u	6.0	1.0m	40				4.0p	D	TO1	
73#	2SA103	60m	35M	1.2m	ØJ	40		.50	10m	16u	6.0	1.0m	50				4.0p	D	TO1	
74	2N1748A	60m	50M*Δ	800u	#S	25	25 Ø	1.0	50m	10uØ	6.0Ø	1.0mØ	50 Δ	1.0uØb	40 Ø		2.5pØ		TO9	A
75	2N1752	60m	50M*Δ	800u	#S	12	12 Ø	2.0	50m	10uØ	6.0	1.0m	50 Δ	1.0uØb	40		3.0pØ		TO9	A
76	2N1864	60m	50M*Δ	800u	#S	20	20 Ø	.50		10uØ	6.0	1.0m	20 Δ	1.0uØb	40		3.0pØ		TO9	A
77#	2SA104	60m	50M	1.2m	ØJ	40		.50	10m	16uØ	6.0	1.0m	100				4.0p	D	TO1	
78	2N1748	60m	80M§Δ	800u	#S	25	25 Ø	1.0	50m	10uØ	6.0	1.0m	30 Δ	1.0uØb	40 Ø		2.5pØ		TO9	A
79	2N501†	60m	90M§	800u	#S	15	12 Ø	2.0	50m	100u	.50Ø	10mØ	35				1.5p	DA	TO1	A
80	2N501A†	60m	90M§	800u	#J	15	12 Ø	2.0	50m	25u	.50	10mØ	30				1.5p	DA	TO1	A
81	2N979†	60m	100M§Δ	769u	#S	20	20 Ø	2.0	100m	3.0uØ	.50Ø	40mØ	50 †				1.5p	MD	TO18	A
82	2N980†	60m	100M§Δ	800u	#S	20	12	2.0	100m	5.0uØ	.50Ø	40mØ	20 †Δ				3.0pØ		TO18	A
83	2N1499A†	60m	100M§Δ	800m	#S	20	20 Ø	2.0	100m	3.0uØ	.30Ø	10mØ	30 †Δ				3.0pØ		TO9	A
84	JAN2N1499A†	60m	100M§Δ	769u	#A	20	20 Ø	2.0		25u	.30Ø	10mØ	30 †Δ				3.0pØ		TO9	A
85	JAN2N1500†	60m	100M§Δ	769u	#J	15	12 Ø	2.0	50m	10u	.50Ø	50mØ	20 †Δ				3.0pØ		TO9	A
86	2N1726	60m	100M*	1.3m	#S	20	20 Ø	1.0	50m	10uØ	6.0Ø	1.0mØ	50 †Δ	1.0u	40		2.5pØ	ME	TO9	A
87	2N1727	60m	100M*	1.3m	#S	20	20 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	20 †Δ	1.0u	40		2.5pØ	ME	TO9	A
88	2N1728	60m	100M*	1.3m	#S	20	20 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	40 †Δ	1.0u	40		2.5pØ	ME	TO9	A
89	2N1746	60m	100M*Δ	800u	#S	20	20 Ø	1.0	50m	10uØ	6.0Ø	1.0mØ	10 †Δ				3.0pØ		TO9	A
90	2N1788	60m	100M*	1.3m	#S	35	35 Ø	1.0	50m	5.0u	12Ø	1.0mØ	50 †Δ	1.0u	40		2.5pØ	ME	TO9	A
91	2N1789	60m	100M*	1.3m	#S	35	35 Ø	.50	50m	7.0u	12Ø	1.0mØ	20 †Δ	1.0u	40		2.5pØ	ME	TO9	A
92	2N1790	60m	100M*	1.3m	#S	35	35 Ø	.50	50m	7.0u	12Ø	1.0mØ	40 †Δ	1.0u	40		2.5pØ	ME	TO9	A
93	2N3412	60m	100M§Δ	833u	#S	20	20 Ø	2.0	100m	3.0uØ	5.0Ø	1.0m	25 Δ	50uØ	7.0kØ		3pØ		TO5	A
94	HEP638-RT	60m♦	100M§		#J	30	20 Ø§	.50	50m§	10u§	20		60 †						TO5	A
95	2N499A	60m	120M§Δ	833u	#S	30	18	.50	50m	5.0uØ	9.0Ø	1.0m	20 Δ				2.5pØ		TO1	A
96	JAN2N499A	60m	120M§Δ	769u	#S	30	18	.50	50m	100u	9.0Ø	1.0m	20 Δ				2.5pØ		R139	A
97	2N1500†	60m	175M§	769u	#S	15	12 §	2.0	50m	25u	.50Ø	10mØ	70				1.5p	MD	TO9	A
98♦	2N588A	60m	200M*Δ	1.0m	#S	15	15 Ø	.50	50m		.30Ø	10mØ	30 †Δ						TO1	A
99	2N1865	60m	200MØ	769u	#S	20	20 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	70	7.0u	2.0k	1.2	1.8p	ME	TO9	A
100	2N1866	60m	200MØ	769u	#S	35	35 Ø	.50	50m	10uØ	12Ø	1.0mØ	70	7.0u	2.0k	1.1	1.8p	ME	TO9	A
101	2N502	60m	220M§Δ		#J	20	20 §	.50		100u	10Ø	2.0m	45				1.0p	DAØ	TO9	A
102#	AF106	60mØ	220M§	1.3m	#J	25	18	.30	10m	10uØ	12Ø	1.0mØ	50 †					ME	TO72	
103#	AF106A	60m	220M§	1.3m	#J	25	18	.30	10m	10uØ	12Ø	1.0mØ	20 †					ME	TO72	G
104#	AFY12	60m*	230M	1.3m	#J	25	18	.05	10m	10u	12Ø	1.0mØ	50 †					MEØ	TO72	
105#	AF306	60m	280M§	2.0m	#J	25	18	.30	15m	10uØ	12Ø	1.0mØ	30 †				850f†	PLØ	X64d	F
106	2N2489	60m	300M§Δ	800u	#S	20	15	2.0	100m	2.5uØ	.50Ø	10mØ	20 †Δ				3.0pØ	Δ	TO18	A
107	2N779†	60m	320M§Δ	800u	#S	15	15 Ø	2.0	100m	3.0uØ	.50Ø	10mØ	50 †Δ				2.5pØ		TO18	A
108	2N779A†	60m	320M§Δ	800u	#S	15	15 Ø	2.0	100m	3.0uØ	.50Ø	10mØ	50 †Δ				2.5pØ		TO18	A
109	2N846A†	60m	320M§Δ	800u	#S	15	15 Ø		100m	3.0uØ	.50Ø	10mØ	25 †Δ				2.5pØ		TO18	A
110	2N984†	60m	350M§	769u	#S	15	10	2.0	100m	5.0uØ	.50Ø	10mØ	70 †				1.9p	MD	TO18	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1	2N2170†	60m	350M§	769u	#S	15	15 Ø	2.0	100m	5.0uØ	.50Ø	10mØ	70 †				1.9p	MD	TO9		A
2	2N2487	60m	360M§△	800u	#S	15	10	2.0	100m	3.0uØ	.50Ø	10mØ	20 †△				3.0pⓅ	△	TO18		A
3	2N2488	60m	360M§△	800u	#S	15	10	4.0	100m	3.0uØ	.50Ø	50mØ	20 †△				3.0pⓅ	△	TO18		A
4	2N982†	60m	450M§	769u	#S	20	15	2.0	100m	3.0uØ	.50Ø	10mØ	100 †				1.5p	MD	TO18		A
5	2N983†	60m	450M§	769u	#S	15	15	2.0	100m	3.0uØ	.50Ø	10mØ	85 †				1.9p	MD	TO18		A
6	2N2168†	60m	450M§	769u	#S	20	20 Ø	2.0	100m	3.0uØ	.50Ø	10mØ	100 †				1.9p	MD	TO9		A
7	2N2169†	60m	450M§	769u	#S	15	15 Ø	2.0	100m	3.0uØ	.50Ø	10mØ	85 †				1.9p	MD	TO9		A
8#	AF280	60m	550M§	1.6m	#J		15	.30	10m	15u§	10Ø	2.0mØ	25 †				420f§	PLØ	X87		A
9#	AF369	60m#	550M§	1.6m	#J		15	.30	10m	500u△	10Ø	2.0mØ	10 †△				500f	PLØ	X87		A
10	AF139	60m	580M§	800u	#J	20	15	.30	10m	8.0u	12Ø	1.5mØ	40 †				230ft	MEØ	TO72		G
11	2N3320†	60m	600M§△	769u	#S	15	10	2.0	100m	5.0u	.50Ø	40mØ	40 †△				3pⓅ		TO18		A
12	2N3321†	60m	600M§△	769u	#S	12	7.0	2.0	100m	5.0uØ	.50Ø	40mØ	80 †△				3.5pⓅ		TO18		A
13	2N3322†	60m	600M§△	769u	#S	12	7.0	2.0	100m	5.0uØ	.50Ø	40mØ	25 †△				3.5pⓅ		TO18		A
14#	AF240	60m*	650M§	1.3m	#J		15	.30	10m	.50u§Ø							.26p §	Ø	TO72		G
15#	AF239S	60mⓅ	700M	1.3m	#J		15	.30	10m		10Ø	2.0mØ	40 †					MEØ	TO72		
16	AF239	60m	770M§	800u	#J	20	15	.30	10m	8.0u	12Ø	1.5mØ	40 †				300ftⓅ	EMØ	TO72		G
17#	AF279	60m	780M§	1.6m	#J		15	.30	10m	15u§	10Ø	2.0mØ	50 †				420f§	PLØ	X87		A
18#	AF367	60m*	800M§	1.6m	#J		15	.30	10m	500u△							400ft	PLØ	X87		A
19▼#	AF279S	60m	820M§		ØJ		15	.30	10m	1.0u§	5.0Ø	5.0 Ø	45 †				420f	PL	T050		A
20	2N2360	60m	1.6G	769u	♦S	20		.50		10uØ	10Ø	2.0mØ	33 †					MDØ	TO12		G
21	2N2361	60m	1.6G	769u	♦S	20		.50		10uØ	10Ø	2.0mØ	33 †					MD	TO12		G
22	2N2362	60m	1.6G*	769u	#S	20	20 Ø	.50		10uØ	10Ø	2.0mØ	33 †					MD	TO12		G
23	2N2398	60m	1.6G*	769u	#S	20	20 Ø	.50		10uØ	10Ø	2.0mØ	33 †					MDØ	TO12		G
24	2N2399	60m	1.6G*	769u	#S	20	20 Ø	.50		10uØ	10Ø	2.0mØ	33 †					MD	TO12		G
25#	2SA341	63m	70M	1.2m	ØJ	20		.50	10m	13uØ	6.0	1.0m	100				1.5p	AD	TO72		G
26#	2SA342	63m	100M	1.2m	ØJ	20		.50	10m	13uØ	6.0	1.0m	100				1.5p	AD	TO72		G
27#	2SB261	65m	2.5M	1.1m	#J	20	15 §	2.5	30m	12uØ	6.0Ø	1.0m	45	20u	2.0k	6.0		A	R18		
28#	2SB262	65m	3.0M	1.1m	#J	20	15 §	2.5	30m	12uØ	6.0Ø	1.0m	90	30u	3.0k	6.0		A	R18		
29	2SB497	65m	3.0M	1.1m	#J	20	15 §	2.5	30m	6.0uØ	6.0Ø	1.0m	90	30u	3.0k	6.0		AØ	R18		
30	2N992	67m		1.3m	ØS	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	40 △				2.5p†Ⓟ		TO72		J
31	2N990	67m	44M§△	1.3m	ØS	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	40 △				4.0pⓅ		TO72		J
32	2N991	67m	44M§△	1.3m	ØS	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	40 △				4.0pⓅ		TO72		J
33	2N993	67m	44M§△	1.3m	ØS	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	40 △				2.5p†Ⓟ	Ø	TO72		J
34#	AF124	67m	75M§	1.3m	ØJ	20	20 §	.50	11m	25uØ	6.0Ø	1.0m	150					AD	TO72		
35#	AF125	67m	75M§	1.3m	ØJ	20	20	.50	11m	25uØ	6.0Ø	1.0m	150					ADØ	TO72		
36#	AF126	67m	75M§	1.3m	ØJ	20	20	.50	11m	25uØ	6.0Ø	1.0m	150					ADØ	TO72		
37#	AF127	67m	75M§	1.3m	ØJ	20	20 §	.50	11m	25uØ	6.0Ø	1.0m	150					ADØ	TO72		
38	TR12	70m			#J	25		25		15uØ	4.5	1.0m	15					B			
39	TR13	70m			#	25				15uØ	4.5	1.0m	28								
40	TR14	70m			#	25				15uØ	4.5	1.0m	45								
41	TR88	70m			#	25				15uØ	4.5	1.0m	65								
42	TRM13	70m			#	25				15uØ	4.5	1.0m	28								
43	TRM14	70m			#	25				15uØ	4.5	1.0m	45								
44	TRM81	70m			#	25				15uØ	4.5	1.0m	65								
45	TR18	70m	.70M		#	25				15uØ	4.5	1.0m	45								
46	TR87	70m	1.0M	2.0m	#J	25				15uØ	4.5	1.0m	28				50				
47	2N311	75m			#J	15	15	6.0		60u†	5.0Ø	10m	25 △					A△	R157		A
48	2N502B	75m		1.0m	#S	30	30 Ø	.50	50m	5.0uØ	10Ø	2.0m	20 △				1.6pⓅ	Ø	TO9		A
49	JAN2N695†	75m		1.0m	#J	15	15	3.5	50m	3.0uØ	.30Ø	10mØ	25 †△				5.0pⓅ		TO17		G
50	2N700	75m		1.0m	#J	25	20	.20	50m	2.0u	6.0	2.0m	4.0 △	b	30 Ⓟ		1.5pⓅ		TO72		G
51	2N700A	75m		1.0m	#J	25	25	.20	50m	2.0uØ	6.0Ø	2.0m	4.0 △						TO72		G
52	2N1158A	75m		1.0m	#S	20	20 Ø	.50	100m	5.0uØ	10	3.0m	9.0 △				2.8p		TO9		A
53#	ASY63N	75m					26	20		4.0u	.10	15m	80				17pⓅ	A	TO5		A
54	2N206	75m	780k	3.3m	#S	30		12	50m	10u	5.0	1.0m	47	550nb	33	3.2	35p	A	TO1		A
55#	NKT11	75m	1.0M△	1.5m	ØJ	18	10	12	100m	5.0uØ	4.5Ø	1.0mØ	90 △				13pⓅ		TO1		A
56	2N265	75m	1.5M	2.0m	*J		25 §		50m	16u	5.0	1.0m	115	500nb	29	4.0	40p	A	R32		
57#	OC41N	75m	3.0M§△	1.7m		16	15	12	50m	5.0u	0.0	10m	40				14p	A	TO1		A
58#	OC42N	75m	5.5M§△	1.7m		16	15	12	50m	5.0u	0.0	10m	40				14p	A	TO1		A
59#	NKT12	75m	7.5M△	1.5m	ØJ	18	10	12	100m	5.0uØ	4.5Ø	1.0mØ	45 △				13pⓅ		TO1		A
60#	OC45N	75m	9.0M	1.2m	ØJ	15	15	12	10m	2.0uØ	6.0Ø	1.0mØ	25 △				12pⓅ	A	TO1		A
61#	OC44N	75m	30MⓅ	1.2m	ØJ	15	15	12	10m	2.0uØ	6.0Ø	1.0mØ	40 △				13pⓅ	A	TO1		A
62	2N1749	75m	80M§△	1.0m	#S	40	40 Ø	1.0	10m	10uØ	6.0Ø	1.0mØ	30 △	1.0ub	40 Ⓟ		2.5pⓅ		TO9		A
63	2N2199	75m	120M§△	1.0m	#S	15	10	.50	100m	5.0uØ	10Ø	3.0m	20 △				2.8pⓅ		TO9		A
64	2N2200	75m	120M§△	1.0m	#S	15	10	.50	100m	5.0uØ	10Ø	3.0m	70 †Ⓟ				2.8pⓅ		TO9		A
65	2N1499B†	75m	150M§△	1.0m	#S	30	20	2.0	100m	3.0uØ	.30Ø	10mØ	40 †△				3pⓅ		TO9		A
66	2N2416	75m	400M§△	1.0m	#S	15	10	.30	20m	5.0uØ	6.0Ø	2.0mØ	10 △				2.0pⓅ		TO72		G
67	JAN2N2996	75m	400M§△	1.0m	#S	15	10	.30	50m	5.0uØ	6.0Ø	4.0mØ	35 △				3.0p	Ø	TO72		G
68	JAN2N2997	75m	400M§△	1.0m	#S	30	15	.30	50m	5.0uØ	12Ø	4.0mØ	50 △				1.0pⓅ	Ø	TO72		G
69	2N2795†	75m	450M§	1.0m	#S	25	15	2.5	100m		.30Ø	10mØ	100 †				2.5p	D	T018		A
70	2N2796†	75m	450M§	1.0m	#S	20	12	2.0	100m		.30Ø	10mØ	60 †				2.5p	D	T018		A
71	2N2415	75m	500M§△	1.0m	#S	15	10	.30	20m	5.0uØ	6.0Ø	2.0mØ	15 △				2.0pⓅ		TO72		G
72	2N2996	75m	550M§	1.0m	#S	15	10	.30	50m	100u	6.0Ø	4.0mØ	200				3.0p	DMØ	TO72		G
73	JAN2N502A	75m	600M§Ⓟ	1.0m	#S	30	30 Ø	.50		10u	10Ø	2.0m	15 △				1.6pⓅ	Ø	R81r		A
74	JAN2N502B	75m	600M§Ⓟ	1.0m	#S	30	30 Ø	.50		10u	10Ø	2.0m	25 △				1.6pⓅ	Ø	R81r		A
75	2N2997	75m	600M§	1.0m	#S	30	15	.30	50m	100u	12Ø	4.0mØ	200				1.8p	DMØ	TO72		G
76	JAN2N700A	75m	800M§Ⓟ	1.0m	#J	25	25	.30	50m	2.0uØ	6.0	2.0m	4.0 △	b	30		1.4pⓅ		TO72		G
77	2N2998	75m	900M§	1.0m	#S	15	12	.30	20m	100u	6.0Ø	3.0mØ	200				1.7p	DMØ	TO72		G
78	2N3267	75m	900M§△	1.0m	#S	15	8.0	.20	20m	5.0uØ	6.0Ø	3.0mØ	15 △				1.7pⓅ	Ø	TO72		G
79	2N2999	75m	1.6G§	1.0m	#S	15	10	.20	20m	100u	6.0Ø	3.0mØ	100 †				1.7p	DMØ	TO72		G
80	2N1632	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	40 △						TO1		A
81♦	2N1633	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	27 △						T040		AE
82♦	2N1634	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	27 △						TO1		A
83♦	2N1635	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	40 △						T040		AE
84♦	2N1636	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	40 △						TO1		A
85	2N1637	80m		1.3m	#S	34		1.5	10m	5.0uØ	6.0Ø	1.0m	40 △						TO1		A
86♦	2N1638	80m		1.3m	#S	34		1.5	10m	7.0uØ	6.0Ø	1.0m	70 △						TO1		A
87	2N1639	80m		1.3m	#S	34		1.5	10m	7.0uØ	6.0Ø	1.0m	40 △						TO1		A
88#	2SB470	80m		1.2m	#J	25	18 §	2.5	50m	6.0uØ	6.0Ø	1.0m	160	40u	5.0k	.15		A	TO1		
89#	AF170	80m		1.3m	#J	24	24 Ø	.50	10m	12uØ	6.0Ø	1.0mØ	80				3.5p	D	T044		
90#	AF172	80m		1.3m	#J	24	24 Ø	.50	10m	12uØ	6.0Ø	1.0mØ	70				3.5p	D	T044		
91	2N1266	80m	1.0M		#J		10				6.0Ø	1.0mØ	48				11p		T022		A
92	SK3008-RT	80m	1.0M§			34	15	.50	10m				150 †					D	TO1		A
93#	AC107N	80m	2.0M	1.6m	ØJ	15	15 §		10m#		5.0Ø	300uØ	60					AØ	TO1		A
94#	OC47N	80m	4.5M§△	1.6m	ØJ	20	20 Ø		100m	3.0uØ	0.0	15mØ	50 †△					A△	TO1		A
95#	2SA12H	80m	5.0M△			16		12	15m	6.0u	6.0Ø	1.0m	60				10p	A	TO1		
96#	2SA15H	80m	5.0M△			16	13	13	15m	4.0u	6.0Ø	1.0mØ	70				10p	A	TO1		
97#	2SA31	80m	5.0M	1.3m	#J	12		.50	10m	10u	6.0Ø	1.0m	50	24.u	1.5k	3.2	10p	A	TO1		
98#	2SA36	80m	5.0M	1.3m	#J	16		.50	15m	6.0uØ	6.0Ø	1.0m	50 *	24.u	1.5k	3.2	10p	A	TO1		
99#	2SA40†	80m	5.0M	1.3m	#J	25	18 §	12	50m	6.0uØ	6.0Ø	1.0m	65				10p	A	TO1		
100#	2SA137	80m	5.0M	1.3m	#J	6.0		.50	10m	10u	3.0Ø	1.0m	50	32.u	1.6k	4.6		A	TO1		
101#	2SA189	80m	6.0M	1.3m	#J	12		.50	15m	10u	6.0	1.0m	65				10p	A	TO1		
102	2N409	80m	6.8M	1.5m	ØA	13		.50	15m	10uØ	9.0Ø	1.0m	48				9.5p	A	T040		A
103	2N410	80m	6.8M	1.5m	ØA	13		.50	15m	10uØ	9.0	1.0m	48				9.5p	A	TO1		A
104	2N581	80m	8.0M		ØA	18	15	10	100m	6.0uØ	.30Ø	20mØ	30 †				12p	AA	TO5		A
105	2N583	80m	8.0M		ØA	18	15	10	100m	6.0uØ	.30Ø	20mØ	30 †				12p	AA	TO5		A
106#	2SA12	80m	8.0M			16		.50	15m	4.0u	6.0Ø	1.0mØ	70				11p	A	TO1		
107#	2SA139†	80m	8.0M	1.3m	#J	30		10	50m	5.0u	1.0Ø	50mØ	70 †				10p	A△	TO1		
108#	2SB389	80m	8.0M	1.3m	#J	12		.50	10m	6.0u	4.0Ø	.50m	100	25u	8.0k	1.5		AØ	TO1		
109	2N140	80m	10.M		ØA	16	9.0	.50	15m	10u	9.0Ø	.60mØ	75 △				9.5p	A△	T040		A
110	2N219	80m	10.M		ØA	16	9.0	.50	15m	10u	9.0Ø	.60mØ	75 △				9.5p	A△	TO44		A

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	2SA30	80m	10.M	1.3m	#J	12		.50	10m	10u	6.0Ø	1.0m	75	32.u	2.5k	4.2	10p	A	TO1
2#	2SA35	80m	10.M	1.3m	#J	16		.50	15m	6.0uØ	6.0Ø	1.0m	75 *	32.u	2.5k	4.2	10p	A	TO1
3#	2SA136	80m	10.M	1.3m	#J	6.0		.50	10m	10u	3.0Ø	1.0m	75	45.u	2.4k	5.6	13p	A	TO1
4#	2SA188	80m	10.M	1.3m	#J	12		.50	15m	10u	6.0	1.0m	65				10p	A	TO1
5#	2SA385	80m	10M	1.6m	ØJ	16		10	10m	12uØ	6.0Ø	1.0m	120				8.0p	A	TO1
6#	2SA15	80m	12.M			16		.50	15m	6.0u	6.0Ø	1.0mØ	60				10p	A	TO1
7#	2SA641	80m	15.M	1.3m	#J	16	12 §	9.0	40m	6.0uØ	6.0Ø	1.0m	65 *	44u	2.1k	3.9	10p	A	TO1
8#	2SA138†	80m	15.M	1.3m	#J	20	15	10	25m	5.0u	1.0Ø	10mØ	70 †				10p	AΔ	TO1
9	2N411	80m	16M§	1.5m	ØA	13		.50	15m	10u	9.0Ø	600u	75				9.5p	A	TO40 A
10	2N412	80m	16M§	1.5m	ØA	13		.50	15m	10u	9.0Ø	600u	75				9.5p	A	TO1 A
11#	2SA111	80m	20.M		#S	20			10m	20uØ	9.0	1.0mØ	40				1.7p	D	TO44
12#	2SA112	80m	20.M		#S	20			10m	20uØ	9.0	1.0mØ	45				1.7p	D	TO44
13#	2SA272	80m	20.M	1.3m	#J	9.0		.50	10m	10uØ	6.0Ø	1.0mØ	45				3.0p	DØ	TO1
14#	2SA17H†	80m	21.M	1.4m	#J	16	10	12	15m		6.0Ø	1.0m	120				10p	A	TO1 A
15	2N274	80m	30M	1.8m	ØA	35		.50	10m	8.0uØ	12Ø	1.0m	60				1.7p	A	TO44 A
16	2N372	80m	30M		ØA	24		.50	10m	10u							30p$	AD	TO7 H
17#	2SA43	80m	30.M		#S	35			10m	16uØ	9.0	1.0mØ	60				1.7p	D	TO44
18#	2SA109	80m	30.M		#S	20			10m	20uØ	9.0	1.0mØ	60				1.7p	D	TO44
19#	2SA110	80m	30.M		#S	20			10m	20uØ	9.0	1.0mØ	60				1.7p	D	TO44
20#	2SA269	80m	30.M	1.3m	#J	20		.50	10m	10uØ	6.0Ø	1.0m	45				2.2p	DØ	TO1
21#	2SA271	80m	30.M	1.3m	#J	9.0		.50	10m	10uØ	6.0Ø	1.0m	60				3.0p	DØ	TO1
22#	2SA274	80m	30.M	1.3m	#J	34		1.0	10m	7.0uØ	6.0Ø	1.0mØ	40				2.0p	D	TO1
23#	2SA354	80m	30.M			25		.50	10m	10u	9.0Ø	1.0m	70				2.5p	D	TO1
24#	2SA355	80m	30.M			25		.50	10m	10u	9.0Ø	1.0m	90				2.5p	D	TO1
25	SK3007-RT	80m	30M§			24	15	.50	10m				120 †					D	TO7 H
26	2N1524	80m	33MΔ	2.5m	#S	24		.50	10m	16uØ	6.0Ø	1.0m	17 Δ				3.6pØ		TO1 A
27	2N1526	80m	33MΔ	2.5m	#S	24		.50	10m	16uØ	5.7Ø	1.0m	27 Δ						TO1 A
28#	2SA268	80m	40.M	1.3m	#J	20		.50	10m	10uØ	6.0Ø	1.0m	45				2.2p	DØ	TO1
29#	2SA273	80m	40.M	1.3m	#J	34		1.0	10m	7.0uØ	6.0Ø	1.0mØ	45				2.0p	DØ	TO1
30#	2SA350	80m	40.M			20		.50	10m	10u	9.0	1.0m	40				2.5p	D	TO1
31#	2SA351	80m	40.M			20		.50	10m	10u	9.0Ø	1.0mØ	70				2.5p	D	TO1
32#	2SA352	80m	40.M			20		.50	10m	10u	9.0Ø	1.0mØ	75				2.5p	D	TO1
33#	2SA353	80m	40.M			25		.50	10m	10u	9.0Ø	1.0mØ	70				2.5p	D	TO1
34#	2SA108	80m	45.M		#S	20			10m	20uØ	9.0	1.0mØ	70				1.7p	D	TO44
35#	2SA275	80m	45.M	1.3m	#J	34		1.0	10m	5.0uØ	6.0Ø	1.0mØ	60				2.0p	DØ	TO1
36#	2SA350H	80m	45.M			30	30 Ø	30	10m	5.0u	9.0	1.0m	12				2.5p	D	TO1
37#	2SA267	80m	50.M	1.3m	#J	20		.50	10m	10uØ	6.0Ø	1.0m	60				2.2p	DØ	TO1
38#	2SA270	80m	50.M	1.3m	#J	9.0		.50	10m	10uØ	6.0Ø	1.0m	75				3.0p	DØ	TO1
39#	2SA266	80m	60.M	1.3m	#J	20		.50	10m	10uØ	6.0Ø	1.0m	75				2.2p	DØ	TO1
40#	2SA400	80m	70.M	1.3m	#J	20		.50	10m	10uØ	6.0Ø	1.0m	70				2.3p	D	TO1
41#	AF114	80m	75M§	1.6m	ØJ	20	20	.50	10m	8.0uØ	6.0Ø	1.0m	40 Δ					AD	TO7
42#	AF117	80m	75M§	1.6m	ØJ	20	20	.50	10m	8.0u	6.0Ø	1.0m	40 Δ					ADØ	TO7
43	SK3006-RT	80m	118M§			30	15	.50	10m				100 †					D	TO45 H
44#	AF166	80m	130M	1.3m	#J	30	30 Ø	1.0	10m	8.0uØ	6.0Ø	1.5mØ	85				3.1p	D	TO44
45#	NKT603F†	80m	140M	1.6m	ØJ	40	40 §	1.0	50m	5.0uØ	4.5Ø	1.0mØ	100				3.5pØ		TO7 H
46#	NKT613F	80m	140M	1.6m	ØJ	40	40 §	.50	10m	5.0uØ	4.5Ø	1.0mØ	40 Δ				2.0pØ		TO7 H
47#	NKT674F	80m	140M	1.6m	ØJ	20	20 §	.50	10m	8.0uØ	4.5Ø	1.0mØ	60 Δ				3.0pØ		TO7 H
48#	NKT677F	80m	140M	1.6m	ØJ	20	20 §	.50	10m	8.0uØ	4.5Ø	1.0mØ	60 Δ				3.0pØ		TO7 H
49	2N3399	80m	400M§Δ	1.1m	#S	20		.30	7.0m	8.0u	12Ø	1.5mØ	10 †Δ				2pØ	ME	TO72 G
50#	2SA434	80m	400M			20		.50	10m	30u	6.0	3.0m	10 Δ				1.4p	ME	TO7
51#	2SB335	83m	1.0M	1.6m	ØJ	20		10	60m	10uØ	6.0Ø	1.0m	70					A	R18
52#	2SB336	83m	1.0M	1.6m	ØJ	20	20 Ø	10	60m	10uØ	1.0Ø	60m	80 †					A	R18
53	OC46	83m	3.0M		ØJ	20	20	15	125m	3.0u	5.0	3.0m	80					AΔ	R9
54	OC47	83m	5.5M		ØJ	20	20	15	125m	3.0u	5.0	15m	200					AΔ	R9
55#	OC45	83m	6.0M	1.6m	ØJ	15	15 Ø	12	10m	10u	6.0	1.0m	50				10p	A	R9
56	OC44	83m	15.M	1.7mØ	J	15		12	10m	10u	2.0	1.0m	100						R9
57	2N1517	83m	70.M§	1.7mØ	J	20			10m	13uØ	6.0	1.0m	67 †				6.0p	AD	TO7 H
58#	OC170	83m	75M§	2.0m	ØJ	20	20	.50	10m	8.0uØ	6.0	1.0mØ	40 Δ				3.0pØ	AD	TO7
59#	OC171	83m	75M§	2.0m	ØJ	20	10	.50	10m	8.0uØ	6.0	1.0mØ	40 Δ				3.0pØ	AD	TO7
60#	ASZ20	83m	100M§	1.7mØ	J	40	40	.50	25m	4.5uØ	6.0Ø	1.0mØ	45 Δ				2.5p	ADΔ	TO7
61#	2SA343	83m	150M	1.7mØ	J	20		.40	5.0m	12uØ	6.0Ø	1.0m	100				1.5p	AD	TO7
62#	AFZ12	83m	180M§	1.7mØ	J	20	20	.50	10m	50uØ	6.0Ø	1.0mØ	70	220u			2.0p	ADØ	TO72 G
63	2N130	85m	700k	2.0m	J	25	22 §	12	10m	12u	6.0	1.0m	24				40p	A	TO5 A
64	2N131	85m	800k	2.0m	J	25	15 §	12	10m	12u	6.0	1.0m	50				40p	A	TO5 A
65	2N133	85m	800k	2.0m	J	25	15 §	12	10m	12u	6.0	1.0m	50				40p	A	TO5 A
66	2N132	85m	1.0M	2.0m	J	25	12 §	12	10m	12u	6.0	1.0m	90				40p	A	TO5 A
67	2N207	85m	2.0M	1.2m	J	12	12	12	20m	15u	5.0	1.0m	100	400n	33		40p	A	TO5 A
68	2N207A	85m	2.0M	1.2m	J	12	12	12	20m	10u	5.0	1.0m	100	400n	33		40p	A	TO5 A
69	2N207B	85m	2.0M	1.2m	J	12	12	12	20m	10u	5.0	1.0m	100	400n	33		40p	A	TO5 A
70	SWT1516	85m	70M§	1.6m	ØJ	35	32 §	.50	10m	15uØ	6.0Ø	1.0mØ	20 †Δ				3.0p	D	TO7 H
71	JAN2N987	86m	100M§	1.3m	#J	40	40 §	1.0	10m	8.0uØ	6.0	1.0m	100	25u	770	615	14p	AD	TO72
72	GT24H	90m			#J	12				10uØ			30					A	
73	GT210H	90m			ØS	12			50m	25uØ	4.5	1.0m	120					A	
74	TR801	90m	2.5M		ØS	12			100m	6.0u	4.5	1.0m	25					A	
75	TR802	90m	5.0M		ØS	10			100m	6.0u	4.5	1.0m	40					A	
76	TR803	90m	11.M		ØS	10			100m	6.0u	4.5	1.0m	70					A	
77	TR804	90m	17.M		ØS	6.0			100m	6.0u	4.5	1.0m	120					A	
78#	2SA447	90m	650M§	3.3m	§J	25	25	.30	15m		10Ø	2.0m	80				1.6p	A	TO12
79	2N987	100m		1.5m	#S	40	40	1.0	10m	8.0uØ	6.0Ø	1.0m	40 Δ				4.0pØ		TO72 J
80	2N2496	100m		1.6m	#S	40	40 Ø		10m	6.0uØ	6.0Ø	1.0mØ	25 †Δ				2.0pØ	Ø	TO72 J
81	GT14H	100m			ØJ	12			50m				28					A	
82	GT20H	100m			ØJ	12			50m				42					A	
83	GT81H	100m			ØJ	12			50m				80					A	
84	TR20	100m			#S	30			200m	5.0uØ			20					A	
85	SWT2188	100m	60m§Δ	2.5m	ØJ	40	25	2.0	10m	3.0uØ	9.0Ø	1.5 Ø	40 Δ				3.0p	D	R96 G
86	SWT3588	100m	175m§	1.7m	ØJ	25	25 §	.65	10m	5.0uØ	6.0Ø	1.0mØ	20 †Δ				3.0p	D	R96 J
87#	GT11	100m	.42M		ØS	9.0			10m	5.0u	4.5	1.0m	30					A	
88	2N519	100m	500kΔ	1.6m	#S	15	15	10		2.0uØ	4.5Ø	1.0m	25	700nb	30	3.0	14p	A	TO5 A
89	TR758A	100m	.50M		#S	20			200m	5.0uØ	4.5	1.0m	15						
90	2N63	100m	.60M	1.7m	#J		22 Ø	12	10m	20u	6.0	1.0m	22			25		F	OV3
91	TR63	100m	.60M	1.7m	#J		22		150m	6.0u	6.0	1.0m	22					F	
92	2N367	100m	700k	2.0m	ØS	30		10	50m	30u	5.0Ø	1.0m	15 †	890mb	34	3.5	33p	A	OV9 F
93	2N64	100m	.80M	1.7m	#J		15 Ø	12	10m	20u	6.0	1.0m	45					F	OV3
94	2N106	100m	.80M	1.7m	#J	15			10m		1.5	.50m	45				36p	FØ	OV4
95	2N186	100m	.80M	3.0m	#S	25		.50	200m	16u	5.0	1.0m	24		1.2k		40p	A	R32
96	TR64	100m	.80M	1.7m	#J	15			150m	6.0u	6.0	1.0m	45					F	
97#	GT12	100m	.85M		ØS	9.0			10m	5.0u	4.5	1.0m	60					A	
98	2N132A	100m	1.0M	1.7m	#J		24 Ø	12	100m	15u	6.0	1.0m	90	20u	30k	.56		A	OV16 A
99	2N187	100m	1.0M	3.0m	#S	25		5.0	200m	16u	5.0	1.0m	36		2.0k		40p	A	R32
100	2N368	100m	1.0M	2.0	ØS	30		10	50m	20u				500nb	33	2.0	33p	AØ	OV9 F
101	2N1265	100m	1.0MΔ	1.7m	#J	20	10	10	100m	10uØ	6.0Ø	1.0mØ	50 Δ		30		25pØ		TO5 A
102#	2SB57	100m	1.0M	2.2m	ØJ	30		10	100m	15u	6.0	1.0m	65	300nb	30	3.0		AΔ	R55
103#	2SB400	100m	1.0M		#J	20			40m	15uØ	6.0Ø	1.0mØ	100	35u	3.0k	8.0		AØ	TO1
104#	OC65	100m	1.0M§	1.5m	#J	10		10	10m	12uØ	2.0Ø	3.0mØ	30					A	TO1 A
105#	OC66	100m	1.0M§	1.5m	#J	10		10	10m	12uØ	2.0Ø	3.0mØ	45					A	TO1 A
106	2N188	100m	1.2M	3.0m	#S	25		5.0	200m	16u	5.0	1.0m	54		2.6k		40p		R32
107	TR65	100m	1.2M	1.7m	#J	12			150m	6.0u	6.0	1.0m	90					F	
108	2N241	100m	1.3M		#	25			200m	16u	1.0	100m	73						R32
109	2N369	100m	1.3M	2.0	ØS	30		10	50m	20u				350nb	30	2.5	33p	AØ	OV9 F
110#	GT13	100m	1.7M		ØS	9.0			10m	5.0u	4.5	1.0m	100					A	

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1	GT759	100m	1.7M	2.0m	#S	20		15	200m	25u	4.5Ø	1.0mØ	25				14p	A		
2#	GT40	100m	2.5M	2.0m	ØJ	15		15	100m	15u	4.5	1.0m	30			3.0	15p	AΔ	R12	
3#	GT44	100m	2.5M	2.0m	ØJ	25		15	100m	15u	4.5	1.0m	30			3.0	15p	AΔ	R12	
4	2N520	100m	3.0MΔ	1.6m	#S	15	12	10		2.0uØ	4.5Ø	1.0m	40	700nb	30	6.0	14p	A	TO5	A
5	GT153	100m	3.0M	2.0m	#S	30		10	200m	50u	2.0Ø	1.0mØ	20 †	700nb	30	6.0	15p	AΔ		
6	TR759	100m	3.0M		ØJ	15			100m				25					A		
7#	GT41	100m	4.0M	2.0m	ØJ	15		15	100m	15u	4.5	1.0m	30	20u	900	3.0	15p	AΔ	R12	
8#	GT45	100m	4.0M	2.0m	ØJ	25		15	100m	15u	4.5	1.0m	30	20u	900	3.0	15p	AΔ	R12	
9	2N135	100m	4.5M	1.7m	#J	20			50m	5.0u	5.0	1.0m	20				14p	A	R31	
10	TR792	100m	4.8M		#S	20			100m	6.0uØ	5.0Ø	5.0mØ	100					A		
11	2N315†	100m	5.0M	2.0m	#S	20	15	20	200m	2.0uØ	.20Ø	100mØ	20				14p	A	TO5	A
12#	2SA203	100m	5.0M		ØJ	15		5.0	15m	10uØ	6.0Ø	1.0m	30				11p	A	TO1	
13	GT760	100m	5.0M	2.0m	#S	15		15		5.0u	4.5Ø	1.0mØ	40				14p	A		
14#	2SA33	100m	6.0M	2.2m	ØJ	20		10	25m	5.0u	6.0	1.0m	65	400nb	29		12p	A	R55	
15#	GT42	100m	6.0M	2.0m	ØJ	15		15	100m	15u	4.5	1.0m	60	25u	1.6k	3.0	15p	AΔ	R12	
16#	GT46	100m	6.0M	2.0m	ØJ	25		15	100m	15u	4.5	1.0m	60	25u	1.6k	3.0	15p	AΔ	R12	
17#	GT100	100m	6.0M	2.0m	ØJ	9.0		9.0	100m		4.5	1.0m	60	25u	1.6k	3.0		AΔ		
18	2N136	100m	6.5M	1.7m	#J	20			50m	5.0u	5.0	1.0m	40				14p	A	R31	
19	2N521	100m	8.0MΔ	1.6m	#S	15	10	10		2.0uØ	4.5Ø	1.0m	70	700nb	30	10	14p	A	TO5	A
20#	2SA201	100m	8.0M		ØJ	15		5.0	15m	10uØ	6.0Ø	1.0m	50				11p	A	TO1	
21#	GT43	100m	9.0M	2.0m	ØJ	15		15	100m	15u	4.5	1.0m	100	30u	2.7k	3.0	15p	AΔ	R12	
22#	GT47	100m	9.0M	2.0m	ØJ	25		15	100m	15u	4.5	1.0m	100	30u	2.7k	3.0	15p	AΔ	R12	
23	2N137	100m	10.M	1.7m	#J	10			50m	5.0u	5.0	1.0m	60				14p	A	R31	
24	2N487	100m	10M§Δ	1.6m	#S	18		3.0	25m	15uØ	6.0Ø	1.0mØ	20 †Δ				14pØ		TO5	A
25#	2SA32†	100m	10M	2.2m	ØJ	20		10	50m	5.0u	6.0	1.0m	65	400nb	29	20	12p	AΔ	R55	
26	GT761	100m	10.M	2.0m	#S	15				5.0u	4.5Ø	1.0mØ	70				14p	A		
27	2N316†	100m	12M	2.0m	#S	20	10	20	200m	2.0uØ	.20Ø	200mØ	30				14p	A	TO5	A
28#	2SA202	100m	12.M		ØJ	15		5.0	15m	10uØ	6.0Ø	1.0m	55				11p	A	TO1	
29	2N522	100m	15MΔ	1.6m	#S	15	8.0	10		2.0uØ	4.5Ø	1.0m	120	700nb	30	14	14p	A	TO5	A
30	2N317†	100m	20M	2.0m	#S	20	6.0	20	200m	2.0uØ	.25Ø	400mØ	30				14p	A	TO5	A
31	GT762	100m	20.M	2.0m	#S	15				5.0u	4.5Ø	1.0mØ	120				14p	A		
32	2N523	100m	21MΔ	1.6m	#S	15	6.0	10		2.0uØ	4.5Ø	1.0m	200	700nb	30	20	14p	A	TO5	A
33	GT764	100m	25.M	2.0m	#S	20			200m	5.0uØ	4.5	1.0m	200					A		
34	GT763	100m	30.M	2.0m	#S	15				5.0u	4.5Ø	1.0mØ	200				14p	A		
35	SWT274	100m	30M	1.7m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 Δ				3.0p	D	R96	G
36	2N2089	100m	44M§Δ	1.7m	#S	20	20	1.0	11m	8.0uØ	6.0Ø	1.0m	40 Δ				4.0pØ		TO7	H
37#	2N2090	100m	44M§Δ	1.7m	#S	20	20	1.0	11m	8.0uØ	6.0Ø	1.0m	40 Δ				4pØ		TO7	H
38#	2N2091	100m	44M§Δ	1.7m	#S	20	20	1.0	11m	8.0uØ	6.0Ø	1.0m	40 Δ					Ø	TO7	H
39	2N2092	100m	44M§Δ	1.7m	#S	20	20	1.0	11m	8.0uØ	6.0Ø	1.0m	40 Δ				2.5pt Ø	Ø	TO7	H
40#	2SA69	100m	70M	2.0m	ØJ	20		.50	10m	13uØ	6.0Ø	1.0m	150				4.0p	AD	TO7	
41#	2SA70	100m	70M	2.0m	ØJ	20		.50	10m	13uØ	6.0Ø	1.0m	150				3.5p	AD	TO7	
42	2N2273	100m	100M§Δ	1.3m	#S	25	15	1.0	100m	10uØ	10Ø	1.0mØ	20 Δ				3.5pØ		TO18	AØ
43#	2SA71	100m	100M	2.0m	ØJ	20		.50	10m	13uØ	6.0	1.0m	150				2.5p	AD	TO7	
44	2N3588	100m	200M§Δ	1.7m	#S	25		.65	10m	5.0uØ	6.0Ø	1.0mØ	20 †Δ						R96	
45	2N976†	100m	250M§Δ	1.3m	#S	15	10	2.0	100m	3.0uØ	.50Ø	20mØ	30 †Δ				3.0pØ		TO18	A
46	JAN2N2273	100m	250M§Δ	1.3m	#S	25	25 Ø	1.0		10uØ	10Ø	1.0uØ	20 †Δ				4.0pØ		TO18	AØ
47	2N3283	100m	250M§Δ	1.3m	#J	25	25 Ø	.50	50m	10uØ	10Ø	3.0mØ	10 Δ				1.5pØ	Ø	R96d	G
48	2N3284	100m	250M§Δ	1.3m	#J	25	25 Ø	.50	50m	10uØ	10Ø	3.0mØ	10 Δ				1.5pØ	Ø	R96d	G
49	2N3285	100m	250M§Δ	1.3m	#J	20	20 Ø	.50	50m	10uØ	10Ø	3.0mØ	5.0 Δ				2pØ		TO72	GØ
50	2N3286	100m	250M§Δ	1.3m	#J	20	20 Ø	.50	50m	10uØ	10Ø	3.0mØ	5.0 Δ				2pØ		TO72	GØ
51	HEP3-RT	100m♦	250M§		#J	20	20 Ø§	.50	50m§	15u§	10		85 †						TO72	G
52	2N2717	100m	390M	22m	ØJ	25	25		15m	8.0uØ	10Ø	3.0m	30 †Δ				1.8p	Δ	TO18	A
53	2N3127	100m	400M§Δ	1.3m	#S	25	20	.75	50m	5.0uØ	10Ø	3.0mØ	125 Ø				1.2pØ	Ø	TO72	G
54	JAN2N3127	100m	400M§Δ	1.3m	#J	25	20	.75	50m	5.0uØ	10Ø	3.0uØ	20 Δ				1.2pØ	Ø	TO72	G
55#	2SA413†	100m	500M§		ØJ	20	15	2.5	30m	5.0uØ	1.0Ø	30mØ	70 †					AD	TO18	
56	2N3281	100m	550M§Δ	1.3m	#J	30	15	.50	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1.2pØ	Ø	R96d	G
57	2N3282	100m	550M§Δ	1.3m	#J	30	15	.50	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1.2pØ	Ø	R96d	G
58	2N3279	100m	600M§Δ	1.3m	#J	30	20	1.0	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1pØ	Ø	R96d	G
59	2N3280	100m	600M§Δ	1.3m	#J	30	20	1.0	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1pØ	Ø	R96d	G
60#	AF379	100m*	1.2G§	2.2m	#J		13	.30	20m	15u	8.0Ø	8.0mØ	80 †					PL	X87	A
61#	AFY16	112m*	550M§	1.3m	ØJ	30	25	.50	10m	3.0u	12Ø	1.5mØ	40 †					MEØ	TO72	
62	2N605	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	40	2.0ub			7.0pØ	D	TO5	A
63	2N606	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	60	2.0ub			7.0pØ	D	TO5	A
64	2N607	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	80	2.0ub			7.0pØ	D	TO5	A
65	2N608	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	120	2.0ub			7.0pØ	D	TO5	A
66	2N1450†	120m		2.0m	#S	30		1.0	100m	10uØ	1.0Ø	10mØ	20 †Δ					AD	TO9	
67	JAN2N1450M†	120m		2.0m	#S	30	20	1.0	100m	10uØ	1.0Ø	10mØ	20 †Δ						R81p	A
68♦	2N2208	120m		1.6m	#S	40	10	.50	10m	50u	12Ø	1.5m	30 Δ				3.0pØ		TO44	AØ
69♦	2N2953	120m#		2.6m	#S	30	25 §	25	150m	5.0uØ	10Ø	10mØ	200 Δ						TO1	A
70#	2SB459	120m				30	18 §	2.5	50m	12u	6.0Ø	1.0m	180	78u	5.2k	1.1		A	TO1	
71	SWT1224	120m	30m	1.6m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 Δ				3.0p	D	TO12	G
72	SWT1225	120m	100m	1.6m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 Δ				3.0p	D	TO12	G
73	2N564	120m	800k	2.0m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	25	2.0ub	35	2.5	30p	A	TO5	A
74	2N566	120m	1.0M	2.0m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	55	2.0ub	30	3.5	30p	A	TO5	A
75	2N568	120m	1.5M	2.0m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	100	2.0ub	30	4.0	30p	A	TO5	A
76	TR34	120m	1.6MΔ	2.0m	#J	40		10	150m	20u	6.0	1.0m	15				15p		TO5	
77	2N570	120m	2.0M	2.0m	#S	30	20	10	300m	5.0uØ	5.0Ø	1.0mØ	150	2.0ub	30	5.0	30p	A	TO5	A
78	2N572	120m	3.0M	2.0m	#S	30	10	10	300m	5.0uØ	5.0Ø	1.0mØ	200	2.0ub	30	10	30p	A	TO5	A
79	2N269	120m	4.0MΔ	2.8m	ØA	20	20	9.0	100m	20u	.30	20mØ	40				20p	AΔ	TO1	A
80	2N2613	120m	4.0MΔ	2.6m	#S	30	25 §	25	50m	5.0uØ	4.0Ø	500mØ	120 Δ					Ø	TO1	A
81	2N2614	120m	4.0MΔ	2.6m	#S	40	35 §	25	50m	5.0uØ	6.0Ø	1.0mØ	100 Δ				12pØ		TO1	A
82	2N578†	120m	5.0M		ØA	20	15	12	400m	5.0uØ	.30Ø	400mØ	15 †					A	TO5	A
83	2N1319	120m	6.0M		#	20		20	400m	6.0u	.30	400m	30 †				20p		TO5	
84#	2SB486	120m	7.0M§	2.0m	#J	25	20 §	12	50m	6.0uØ	6.0Ø	1.0m	200	56u	6.5k	9.0	6.5p	AØ	TO1	A
85	2N579†	120m	8.0M		ØA	20	15	12	400m	5.0uØ	.30Ø	400mØ	30 †					A	TO5	A
86	2SA538	120m	8.0M	2.3m	ØJ	25		12	50m	50u	6.0Ø	1.0m	70				20pØ	A	TO1	
87	2N1670	120m	10MΔ	2.0m	#J	100		3.0		7.0uØ	.50	10mØ	15 †Δ				5.0p		TO9	F
88	40359	120m#	10.M	2.7m	#A	20	18 §	2.5	50m	12uØ	6.0Ø	1.0mØ	100					A	TO1	A
89	40395	120m#	10M	2.6m	#J	20	18 §	20	50m	12u	6.0Ø	1.0mØ	250 Ø						TO1	A
90	2N602A	120m	12M§Δ			35	25	1.5		5.0uØ	1.0Ø	500uΔ	80 †Ø	2.0uØb			7.0pØ	DΔ	TO9	A
91	2N603A	120m	12M§Δ			30	20	2.0		5.0uØ	1.0Ø	500uΔ	100 †Ø	2.0uØb			5.0pØ	DΔ	TO9	A
92	2N604A	120m	12M§Δ			30	20	2.5		5.0uØ	1.0Ø	500uΔ	120 †Ø	2.0uØb			6.0pØ	DΔ	TO9	A
93	TR269	120m	12.M		ØA	25		12	100m	20u	.30	20mØ	40				20p	AΔ		
94	2N580†	120m	15M		ØA	20	15	12	400m	5.0uØ	.30Ø	400mØ	45 †					A	TO5	A
95	2N582	120m	18M		ØA	25	14	12	100m	5.0uØ	.20Ø	20mØ	60 †					AΔ	TO5	A
96	2N584	120m	18M		ØA	25	14	12	100m	5.0uØ	.20Ø	20mØ	60 †					AΔ	TO1	A
97	2N602	120m	20M	2.0m	#S	20	20	1.0		8.0uØ	1.0Ø	500uØ	20 †Δ	500nb	33	3.0	4.0p	DΔ	TO5	A
98	2N1065	120m	20MΔ	2.0m	#S	40	20	1.0		8.0uØ	1.0Ø	500mΔ	20 †Δ				7.0pØ		TO9	A
99	JAN2N384	120m	25M§Δ	1.6m	#S	40	20	.50	10m	50u	12Ø	1.5m	20 Δ				3.0pØ		TO72	G
100	2N794	120m	25M§Δ	2.0m	#S	13	12 §	1.0	100m	3.0uØ	.30Ø	10mØ	30 †Δ				12pØ		TO18	AØ
101	2N1678	120m	25MΔ	2.0m	#J	60	60	4.0		5.0uØ	.25Ø	20mØ	25 †Δ	2.0uØb			5.0pØ	DΔ	TO9	A
102	2N1224	120m	30.M	1.6m	#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	60				2.0p	D	TO12	G
103	JAN2N1224	120m	30M§Δ	1.6m	#S	40		.50	10m	20u	12Ø	1.5mØ	30 Δ				3.0pØ		TO33	GØ
104	2N1226	120m	30.M	1.6m	#A	60	60 §	.50	10m	12uØ	10Ø	1.5m	60				2.0p	D	TO33	G
105	2N1395	120m	30.M	1.6m	#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	90				2.0p	D	TO33	G
106#	SFT315	120m	30.M	2.0m	#J	40	40 §	.50	10m	15u	9.0Ø	1.0mØ	80				2.0p	D	TO44	A
107	SWT1224L	120m	30M	1.6m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 Δ				3.0p	D	TO33	G
108	2N795	120m	35M§Δ	2.0m	#S	13	12 §	4.0	100m	3.0uØ	.30Ø	10mØ	30 †Δ				12pØ		TO18	AØ
109	2N603	120m	40M	2.0m	#S	30	20	1.0		8.0uØ	1.0Ø	500uØ	30 †Δ	400nb	30	4.0	3.0p	DΔ	TO5	A
110	JAN2N604†	120m	50M§Δ	2.0m	#S	30	20	2.0		8.0uØ	1.0Ø	500uØ	40 †Δ#	2.0uØb			5.0pØ		R81p	A

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	2N796	120m	50M§△	2.0m	#S	12	12 §	4.0	100m	3.0uØ	.30Ø	10mØ	50 †△				12pØ		TO18 AØ
2	JAN2N1225	120m	50M§△	1.6m	#S	40		.50	10m	20u	12Ø	1.5mØ	30 △				3.0pØ		TO33 GØ
3	2N604	120m	60M	2.0m	#S	30	20	2.0		8.0uØ	1.0Ø	500uØ	40 †△	250nb	27	3.0	3.0p	DA	TO5 A
4#	SFT316	120m	70.M§	2.0m	#J	20		.50	10m	15uØ	6.0Ø	1.0mØ	120				1.8p	D	TO44 A
5#	SFT357P	120m	80.M§	2.0m	#J	30	10	.50	10m	20u	9.0Ø	1.0mØ	180				2.0p	D	TO44 A
6#	SFT357	120m	85.M§	2.0m	#J	20		.50	10m	15uØ	6.0Ø	1.0mØ	120				1.8p	D	TO44 A
7#	SFT354	120m	87.M§	2.0m	#J	20		.50	10m	15uØ	6.0Ø	1.0mØ	120				1.8p	D	TO44 A
8	2N384	120m	100M	1.6m	#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	60		400		2.0p	D	TO44 A
9	2N1225	120m	100M	1.6m	#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	60				2.0p	D	TO12 G
10	2N1396	120m	100M	1.6m	ØA	40	40 §	.50	10m	12uØ	124	1.5m	90				2.0p	D	TO33 G
11#	2SA344	120m*	100M	4.0m	ØJ	30		.50	30m	6.0uØ	2.0Ø	10mØ	200				4.0p	AD	TO44
12	SWT1225L	120m	100M	1.6m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 △				3.0p	D	TO33 G
13#	SFT358	120m	110M	2.0m	#J	20		.50	10m	15uØ	6.0Ø	1.0mØ	120				1.8p	D	TO44 A
14	2N1066	120m	120M	1.6m	#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	60				2.0p	D	TO33 G
15	2N1397	120m	120M	1.6m	ØA	40	40 §	.50	10m	12uØ	124	1.5m	90				2.0p	D	TO33 G
16	SWT2207	120m	180M§	5.2m	ØJ	70	70 §	.50	50m	12uØ	6.0Ø	10 Ø	35 †△				3.0p	D	TO7 H
17#	ASZ21†	120m	300M§△	2.0m	#J	20	15		30m	60u#	.50Ø	10mØ	30 †△				5.0p$Ø	AD	TO18 AØ
18	GT14	125m		2.0m	#S	25		10	100m	25u	.50Ø	1.0m	28	500nb	40	3.0	35p	A	
19	TR11	125m			#S	100			100m	450u	4.5	1.0m	18					A	
20	TR15	125m			#S	25			100m	6.0uØ	4.5	1.0m	75					A	
21	TR16	125m			#S	25			100m	6.0uØ	4.5	1.0m	150					A	
22	TR17	125m			#S	25			100m	6.0uØ	4.5	1.0m	150					A	
23	TR21	125m			#J	12			100m	6.0uØ			20					A	
24	TRM15	125m			#S	25			100m	6.0uØ	4.5	1.0m	75					A	
25	TRM16	125m			#S	25			100m	6.0uØ	4.5	1.0m	150					A	
26	TRM17	125m			#S	25			100m	6.0uØ	4.5	1.0m	150						
27	TRM21	125m			#J	12			100m	6.0uØ			20						
28	2N279	125m	300k	2.5m	ØJ		20		10m	12uØ	2.0Ø	500uØ	30	23u	2.2k	9.0		△	R9 F
29	2N280	125m	300k	2.5m	ØJ		20		10m	12uØ	2.0Ø	3.0mØ	47	80u	800	5.0		△	R9 F
30#	2SB170	125m	300k	2.5m	ØJ	30			10m	12uØ	2.0	500u	30	15u	1.8k	4.5		A	TO1
31	2N281	125m	350k	2.5m	ØJ	16	16	10	125m	10uØ	5.4Ø	10m	70 †					ADA	R8
32	2N284	125m	350k	2.5m	ØJ	32	32	10	125m	10uØ	6.0Ø	250m	15 †△					AA	R8 F
33	2N284A	125m	350k	2.5m	ØJ	60	60	10	125m	10uØ	6.0Ø	250m	15 †△					AA	R8 F
34	2N283	125m	500k	2.5m	ØJ	20	20		10m	6.0uØ	10Ø	500uØ	40					△	R9 F
35#	2SB171	125m	500k	2.5m	ØJ	30			10m	12uØ	2.0	3.0u	50	75u	800	4.5		A	TO1
36#	2SB173	125m	500k	2.5m	ØJ	20			10m	12uØ	6.0Ø	1.0u	50					AØ	TO1
37#	2SB175	125m	600k	2.5m	ØJ	30			10m	12uØ	2.0	3.0m	90	80u	1.3k	5.5		A	TO1
38#	GT1	125m	.80M		ØS	9.0			10m	5.0u	4.5	1.0m	20	18u	1.1k	3.5		A	
39#	GT31	125m	800k	2.5m	ØJ	15		15	100m		4.5	1.0m	20	18u	1.1k	3.5		AA	R12
40#	2SB177	125m	900k	2.5m	ØJ	60		10	125m	12uØ		300m	65 †					A	TO1
41#	GT32	125m	900k	2.5m	ØJ	15		15	100m		4.5	1.0m	40	20u	1.8k	4.0		AA	R12
42	2N65	125m	1.0M	1.7m	#J	20		16	100m	10u	5.0	1.0m	75				35p	A	OV4 A
43#	2SB172	125m	1.0M	2.5m	ØJ	32		10	125m	12uØ	1.0Ø	100mØ	50 †					A	TO1
44#	GT2	125m	1.0M		ØS	9.0			10m	5.0u	4.5	1.0m	40	20u	1.8k	4.0		A	
45#	GT33	125m	1.0M	2.5m	ØJ	15		15	100m		4.5	1.0m	60	25u	2.5k	5.0		AA	R12
46#	OC70	125m	1.0M	2.5m	ØJ	30	30	10	50m	13uØ	2.0Ø	500uØ	20 △					A	TO1 A
47#	OC71	125m	1.0M	1.7m	#J	30	20	10	50m	13uØ	2.0Ø	3.0mØ	30 △				40p	A	TO1 A
48#	OC77	125m	1.0M§	1.6m	#J	60	60	10	250m	10uØ	5.4Ø	10mØ	45 △				40p	A	TO1 A
49#	GT3	125m	1.3M		ØS	9.0			10m	5.0u	4.5	1.0m	60	25u	2.5k	5.0		A	
50#	2SB176	125m	1.4M	2.5m	ØJ	32		10	125m	12uØ	1.0Ø	100mØ	100 †					A	TO1
51	40329	125m	1.5M	2.8m	#J	25	25 §	2.5	100m	14uØ	10Ø	10mØ	75 △	175u	400	3.0	35p	A	TO1 A
52	TR19	125m	2.0M	2.5m	#J	25				5.0uØ	5.0	1.0m	100				50p	A	
53	2N614	125m	3.0M		#J	20	15	10	150m	6.0u	9.0	.50m	4.5				8.0p		TO5 A
54	2N615	125m	5.0M		#J	20	15	10	150m	6.0u	9.0	.50m	7.5				8.0p		TO5 A
55	2N617	125m	7.5M		#J	15	12	10	150m	6.0u	9.0	500u	15				7.0p	F	TO5 A
56	2N505	125m	8.0M	2.0m	#J	40		40	250m		1.0Ø	10mØ	40				10p		TO9 A
57	JAN2N2084	125m	40M§△	1.6m	#A	40	20	1.0	10m	8.0uØ	6.0Ø	1.0mØ	40 △				4.0pØ		TO33 GØ
58	2N2188	125m	60M§△	2.1m	#J	40	25	2.0	30m	3.0uØ	9.0Ø	1.5mØ	40 △				2.5p$Ø		TO58 A
59	2N2190	125m	60M§△	2.1m	#J	60	25	2.0	30m	3.0uØ	9.0Ø	1.5mØ	40 △				2.5p$Ø		TO58 A
60	2N2084	125m	100M§△	600u	#S	40	20	1.0	10m	8.0uØ	6.0Ø	1.0mØ	40 △				4.0pØ		TO33 GØ
61	2N2189	125m	102M§△	2.1m	#J	40	25	2.0	30m	3.0uØ	9.0Ø	1.5mØ	60 △				2.5p$Ø		TO58 A
62	2N2191	125m	102M§△	2.1m	#J	60	25	2.0	30m	3.0uØ	9.0Ø	1.5mØ	60 △				2.5p$Ø		TO58 A
63	MM1139	125m	550M§	1.7m	#J	30	15	.30		8.0uØ	10Ø	2.0mØ	35 †				.17p$		TO72 G
64	TR761	130m		2.5m	#J	30		20	200m									F	
65	2N111	130m	3.0M	2.5m	#J	30		20	200m		6.0	1.0m	25				12p	F	OV4
66	2N111A	130m	3.0M	2.5m	#J	30		20	200m		6.0	1.0m	25				12p	F	OV4 A
67	2N112	130m	5.0M	2.5m	#J	30		20	200m		6.0	1.0m	30				12p	F	OV4
68	2N112A	130m	5.0M	2.5m	#J	30		20	200m		6.0	1.0m	30				12p	F	OV4 A
69	2N113	130m	10.M	2.5m	#J	30		20	200m		6.0	1.0m	45				12p	F	OV4
70	2N114	130m	20.M	2.5m	#J	30		20	200m		6.0	1.0m	75				12p	F	OV4
71	TR762	130m	20.M	2.5m	#J	30		20	200m	1.0uØ	6.0	1.0m	75				12p	F	
72	2N1097	140m			#J		16		100m	16u	1.0Ø	20mØ	34 †△						TO5 A§
73	2N1098	140m			#J		16		100m	16u	1.0Ø	20mØ	25 †△						TO5 A§
74	2N1144	140m		4.0m	*J	16	16 §		100m	16u	5.0	1.0m	55				40p	A	R32
75	2N1145	140m		4.0m	*J	16	16 §		100m	16u	5.0	1.0m	45				40p	A	R32
76#	AF181	140m	350M	3.1m	ØJ	30	30		20m	10uØ	6.0Ø	12m	27 †△				1.8p	AD	TO12
77#	AFY40	140m	700M§	2.3m	ØS	32	20	.30	20m	8.0uØ								ME	R90 A
78	2N138	150m			ØA	20			150m	20u	1.0Ø	50mØ	44					A	TO22 A
79	2N185	150m			*A	20			150m	14u	1.0Ø	50mØ	80					A	TO22 A
80	2N270	150m		4.1m	*A	25			75m	10u	1.0	150mØ	70 †					A	R27 AE
81	2N315A†	150m		2.0m	#S	30	20	20	500m#	2.0uØ	.20Ø	100mØ	20 †△						TO5 A
82	2N315B	150m		2.0m	#S	30	20	20	500m#	2.0uØ	.20Ø	100mØ	20 †△						TO5 A
83	2N316A†	150m		2.0m	#S	30	15	20	500m#	2.0uØ	.20Ø	200mØ	20 †△						TO5 A
84	2N317A†	150m		2.0m	#S	25	10	20	500m#	2.0uØ	.25Ø	400mØ	20 †△						TO5 A
85	2N407	150m		3.0m	ØJ	20	18	2.5	70m	14uØ	1.0Ø	50mØ	65					A	TO40 A
86	2N408	150m		3.0m	ØJ	20	18	2.5	70m	14uØ	1.0Ø	50mØ	65					A	TO1 A
87	2N680	150m		3.0m	ØS	20	20 Ø	10	150m	14uØ	5.0Ø	1.0mØ	15 △				50pØ		OV9 A
88	JAN2N705†	150m		2.0m	#J	15	15 Ø	3.5		100u	.30Ø	10mØ	25 †△					DM	TO18 AØ
89	2N705A†	150m		2.0m	#J	15	15	3.5	100m	3.0uØ	.30Ø	10mØ	25 †△				8.0pØ		TO18 AØ
90	2N710A†	150m		2.0m	#S	15	15 Ø	2.0	50m	3.0uØ	.50Ø	10mØ	25 †△				8pØ		TO18 AØ
91	2N741	150m		4.0mØ	#J	15	15	1.0	100m	3.0uØ	4.0Ø	5.0mØ	20 △		15 ØΩb		10pØ		TO18 AØ
92	2N782†	150m		2.0m	#J	12	12 Ø	1.0	200m	3.0uØ	.25Ø	10mØ	20 †△						TO18 AØ
93	2N837†	150m		2.0m	#S	12	6.0	1.0	100m	3.0uØ	.50Ø	10mØ	30 †△				9pØ		TO18 AØ
94	2N1408	150m		2.0m	#S	50	50 Ø	10		7.0uØ	5.0Ø	1.0m	10 △	2.0ub					TO5 A
95	JAN2N1646†	150m		2.0m	#S	15	12 Ø	2.0	50m	3.0uØ	.50Ø	10mØ	20 †△				5.0pØ		X25 AØ
96	2N1729†	150m		2.5m	#J	25	15 #	20	300m	6.0u	.30Ø	100mØ	30 †△				20pØ		TO5 A§
97	2N1853	150m		2.5m	#J	18		2.0	100m	4.2u	.40Ø	6.0mØ	30 †△						TO5 A
98	JAN2N1853†	150m		25m	#S	18	18 #	4.0	100m	35u†	1.0Ø	200uA	30 †△						TO5 A
99#	2SB156	150m				16		2.5	300m	14u	4.0Ø	1.0m	45					A	TO1
100#	2SB156A	150m				20		6.0	300m		4.0Ø	1.0m	45					A	TO1
101#	2SB185	150m			ØJ	25		25	50m	15u	1.5Ø	30m	45					A	TO1
102#	2SB186	150m			ØJ	25		25	50m	15u	1.5Ø	30m	170					A	TO1
103#	2SB187	150m			ØJ	25		25	50m	15u	1.5Ø	30m	100					A	TO1
104#	2SB188	150m			ØJ	25		25	50m	15u								A	TO1
105	GT34HV	150m		2.0m	#S	50		10		25u	5.0Ø	1.0m	18	500nb	40	3.0	35p	A	
106	GT75	150m		2.0m	#S	25		10		25u	5.0Ø	1.0mØ	150	500nb	40	8.0	35p	A	TO5
107	GT2694	150m		2.5m	#J	25	15	10		25u	5.0Ø	1.0m	80	5.0ub			15p	FA	TO5
108	GT2696	150m		2.5m	#J	25	15	10		25u	5.0Ø	1.0m	70	5.0ub			15p	FA	TO5
109	GT2883	150m		2.5m	#J	9.0	6.0 Ø	9.0		50u	6.0Ø	1.0m	50				20p	FA	TO5
110	GT2885	150m		2.5m	#J	9.0	6.0 Ø	7.0		50u	6.0Ø	1.0m	200				20p	FA	TO5

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A X	M E A P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	GT2887	150m		2.5m		#J	9.0	6.0 Ø	7.0		50u	6.0Ø	1.0m	250				20p	FA	TO5
2	TR10	150m				#J	50			100m	25u	5.0	1.0m	18					A	
3	TR81	150m		2.8m		#J	25				20u	4.5	1.0m	200					A	
4	TR-C70	150m		2.8m		#J	16		12		10u	6.0	1.0m	30						TO5
5	TR-C71	150m		2.8m		#J	12		9.0		10u	6.0	1.0m	60						TO5
6	TR-C72	150m		2.8m		#J	20		16		20u	5.4	1.0m	100						TO5
7	UPI1303	150m		2.5m		#J	30	15	25	300m	6.0u	1.0Ø	10m	20 †				20p	#	OV9 A
8	UPI1305	150m		2.5m		#J	30	15	25	300m	6.0u	1.0Ø	10m	40 †				20p	#	OV9 A
9	UPI1307	150m		2.5m		#J	30	15	25	300m	6.0u	1.0Ø	10m	60 †				20p	#	OV9 A
10	UPI1309	150m		2.5m		#J	30	15	25	300m	6.0u	1.0Ø	10m	80 †				20p	#	OV9 A
11#	AC125	150m*	1.7m§	3.3m		#J	32	32 §	10	200m	10uØ	5.0	2.0m	100 †				40p$	A	TO1 F
12#	AC126	150m*	2.3m§	3.3m		#J	32	32 §	10	1.0 #	10uØ	0.0	300m	90 †				100p$	A	TO1 F
13#	2SB475	150m	10k†	3.0m		ØJ	20	10	6.0	300m	20uØ								A	TO1 A
14	JAN2N464	150m	400kΔ	2.5m		#S	40		12		20u	6.0	1.0m	14 Δ	1.0uØb	45 Ø		60pØ		R81a A
15	2N237	150m	.50M			#	45			20m	10u	6.0	1.0m	50						A
16	JAN2N465	150m	500kΔ	2.0m		#S	40	30	12	50m	15u	6.0	1.0m	27 Δ	1.0uØb	45 Ø		20pØ		TO5 A
17	JAN2N466	150m	500kΔ	2.0m		#J	35	25 §	12		20u	6.0	1.0m	54 Δ	1.0uØb	45 Ø		60pØ		TO5 A
18	JAN2N466M	150m	500kΔ	2.0m		#S	35		12		20u	6.0	1.0m	54 Δ	1.0uØb	45 Ø		60pØ		TO5 A
19	2N519A	150m	500kΔ	2.0m		#S	25	18	10		2.0uØ	5.0Ø	1.0m	15 Δ	1.5uØb				Δ	TO5 A
20	JAN2N398A	150m	600kΔ	2.0m		#S	105	105 Ø	75	200m	14uØ	6.0Ø	1.0mØ	20 Δ				25pØ		TO5 A
21	MA909	150mØ	.60M	2.0m		#J	75	75	35	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5 A
22	MA910	150mØ	.60M	2.0m		#J	90	90	45	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5 A
23	2N405	150m	650k	3.3m		ØA	20	18	2.5	35m	14uØ	6.0Ø	1.0m	35	17u	1.1k	2.9	40p	A	TO44 A
24	2N406	150m	650k			ØA	20	18	2.5	35m	14uØ	6.0Ø	1.0m	35	17u	1.1k	2.9	40p	A	TO1 A
25	2N104	150m	700k	2.5m		ØA	30		12	50m	10uØ	6.0Ø	1.0mØ	44	23u	1.6k	5.0	40p	A	TO40 A
26	2N180	150m	.70M	3.0mØ			30		30		10u	6.0	1.0m	60				25p	A	R8a A
27	2N181	150m	.70M	5.0mØ			30		30		10u	6.0	1.0m	60				25p	A	X41 A
28	JAN2N467	150m	700kΔ	2.0m		#S	35	15	12	50m	10u	6.0	1.0m	110 Δ	1.0uØb	45 Ø		20pØ		TO5 A
29#	2SB66H	150m	.70M				30	30	12	70m	6.0u	6.0Ø	1.0m	70	27u	2.2k	5.0	30p	A	TO1
30#	2SB120	150m	.70M	2.5m		#J	32		2.5	20m	6.5uØ	12Ø	2.0m	70					A	TO1
31	GT87	150m	700k	2.0m		#S	25		10		25u	5.0Ø	1.0m	28	500nb	40	4.0	35p	AΔ	
32	TR104	150m	700k	2.5m		ØA	30			50m	10uØ	6.0	1.0mØ	44				40p	A	
33	TR215	150m	700k	2.5m		ØA	30			50m	10uØ	6.0	1.0mØ	44				40p	A	
34	2N1129	150m	750k	2.5m		#J	25	25 Ø		250m	25u	6.0	10mØ	190	1.6ub	10	5.5	125p	AΔ	R2 A
35	2N1130	150m	750k	2.5m		#J	30			250m	25u	6.0	10mØ	160	1.6ub	10	5.5	125p	AΔ	R2 A
36	2N563	150m	800k	2.5m		#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	25	2.0ub	35	2.5	30p	A	R109 A§
37#	2SB32	150m	800k	2.5m		#J	20		2.5	50m	14uØ	6.0Ø	1.0m	40	16u	1.5k	4.2		A	TO1
38#	2SB168	150m	.80M	2.5m		#J	9.0		2.5	100m	14u	3.0Ø	1.0m	60	20u	1.3k	4.9		A	TO1
39	2N44	150m	1.0M	4.0m		#J	45	30	5.0	300m	16u	1.0Ø	100mØ	13 †Δ	1.5uØb	38 Ø	13 Ø	60pØ	F	R32 A§
40	2N45	150m	1.0M	2.0m		#J	45		5.0	10m	15u				2.0uØb	50 Ø	5.0 Ø	50uØ	F	R31a A§
41	2N45A	150m	1.0M			#J	45		5.0	10m	15u	5.0Ø	1.0mØ	15 Δ				40p		TO5 A
42	2N398A	150m	1.0M	2.0m		#J	105	105	50	200m	50u	.35Ø	5.0mØ	65 †						TO5 A
43	JAN2N422	150m	1.0MΔ	2.5m		#S	35		12		20u	35Ø	0.0	30 Δ	1.0uØ	45 Ø		60pØ	Ø	R81a AØ
44	2N565	150m	1.0M	2.5m		#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	55	2.0ub	30	3.5	30p	A	R109 A§
45	2N1128	150m	1.0M	2.5m		#J	25	18 Ø		250m	20u	10	2.0mØ	100	500nb	12	1.8	90p	A	R2 A
46#	2SB33	150m	1.0M	2.5m		#J	20		2.5	50m	14uØ	6.0Ø	1.0m	80	20u	2.6k	5.5		A	TO1
47#	2SB37	150m	1.0M	2.5m		#J	30	20 §	12	50m	14u	6.0Ø	1.0m	80 *	20u	2.6k	5.5	45p	A	TO1
48#	2SB54	150m	1.0M§	3.0m		ØJ	30	20 §	12	150m	14uØ	6.0Ø	1.0m	140	30u	4.2k	6.0	35p	A	TO1 A
49#	2SB55	150m	1.0M§	3.0m		ØJ	60	60 §	12	150m	14uØ	1.0Ø	50mØ	80 †				35p	A	TO1
50#	2SB56	150m	1.0M§	3.0m		ØJ	30	25 §	12	150m	14uØ	1.0Ø	50mØ	80 †				35p	A	TO1
51#	2SB56A	150m	1.0M§	3.0m		ØJ	45	45 §	12	150m	14uØ	1.0Ø	50mØ	80 †				35p	A	TO1 A
52#	2SB59	150m	1.0M	2.5m		#J	30	20	10	100m	15u	1.0Ø	50mØ	70 †					AΔ	TO1
53#	2SB60	150m	1.0M	2.5m		#J	20		2.5	50m	14uØ	6.0	1.0m	65	300nb	30	3.0		A	TO1
54#	2SB60A	150m	1.0M	2.5m		#J	20	20 Ø	2.5	50m	14uØ	1.0Ø	50mØ	70 †					A	TO1
55#	2SB61	150m	1.0M	2.5m		#J	30		12	50m	10u	6.0Ø	1.0m	85	30u	3.0k	7.0	40p	A	TO1
56#	2SB65	150m	1.0M	2.5m		#J	30	20 §	12	100m	15u	6.0Ø	1.0m	65	30u	3.0k	7.0	40p	A	TO1
57#	2SB169	150m	1.0M	2.5m		#J	9.0		2.5	100m	14u	3.0Ø	1.0m	85	24u	2.3k	6.3		A	TO1
58#	2SB365	150m	1.0M	3.0m		ØJ	20	20 §	12	400m	14nØ	.50Ø	100mØ	90 †				50p	A	TO1
59	GT83	150m	1.0M	2.0m		#S	25		10		25u	5.0Ø	1.0m	42	500nb	40	4.0	35p	AΔ	
60	MA200	150m	1.0M	2.0m		#J	105	105	10	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5 A
61	MA201	150m	1.0M	2.0m		#J	105	105	20	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5 A
62	MA202	150m	1.0M	2.0m		#J	105	105	10	200m	50u	.35Ø	5.0mØ	40 †Δ					A	TO5 A
63	MA203	150m	1.0M	2.0m		#J	105	105	20	200m	50u	.35Ø	5.0mØ	40 †Δ					A	TO5 A
64	MA204	150m	1.0M	2.0m		#J	90	90	20	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5 A
65	MA205	150m	1.0M	2.0m		#J	75	75	20	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5 A
66	MA206	150m	1.0M	2.0m		#J	60	60	10	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5 A
67#	OC75	150m	1.0M	2.3m		#J	30	30	10	100m	10uØ	4.5Ø	1.0mØ	60 Δ				40p	A	TO1 A
68#	OC76	150m	1.0M	2.3m		#J	32	16	10	300m	10uØ	5.4Ø	10mØ	45 Δ				40p	A	TO1 A
69	SK3003-RT	150m	1.0M§				20	18	2.5	70m		1.0	50mØ	90 †					A	TO1 A
70	TR43A	150m	1.0M	2.0m		#	45		15	50m	5.0u	5.0	1.0m	43				40p	F	
71#	2SB75AH	150m	1.2M				45	45 Ø	12	100m	6.0u	6.0Ø	1.0m	55	23u	1.6k	3.0	52p	A	TO1
72#	2SB75H	150m	1.2M				30		12	100m	6.0u	6.0Ø	1.0m	55	23u	1.6k	30	52p	A	TO1
73#	2SB364	150m	1.2M	3.0m		ØJ	20	20 §	12	400m	14uØ	.50Ø	100mØ	90 †				50p	A	TO1
74	2N43	150m	1.3M	4.0m		#J	45	30	5.0	300m	16u	1.0Ø	100mØ	30 †Δ	1.5uØb	35 Ø	15 Ø	60pØ	F	R32 A§
75	2N43A	150m	1.3M	2.0m		#J	45	30	5.0	300m	16u	1.0Ø	100mØ	30 †Δ	1.5uØb	35 Ø	15 Ø	60pØ		R32 A§
76	2N567	150m	1.5M	2.5m		#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	100	2.0ub	30	4.0	30p	A	R109 A§
77#	2SB77AH	150m	1.5M				45	30	12	100m	6.0u	6.0Ø	1.0m	70	26u	1.9k	3.8		A	TO1
78#	2SB77H	150m	1.5M				30	30	12	100m	6.0u	6.0Ø	1.0mØ	70	26u	1.9k	3.8		A	TO1
79#	AC151	150m*	1.5M§	3.3m		#J	32	24	10	200m	25u	1.0Ø	2.0mØ	110	130u	1.0k	14	27p	AØ	TO1
80#	AC151R	150m*	1.5M§	3.3m		#J	32	24	10	200m	100uØ	1.0Ø	2.0mØ	80	100u	750	9.0	27p	AØ	TO1
81#	ACY23	150m*	1.5M§	3.3m		#J	32	30	16	200m	10uØ	5.0Ø	1.0mØ	100	40u	3.0k	7.0	27p	A	TO1
82#	ACY32	150m*	1.5M§	3.3m		#J	32	30	16	200m	10uØ	5.0Ø	1.0mØ	100	40u	3.0k	7.0	27p	AØ	TO1
83	GT88	150m	1.5M	2.0m		#S	25		10		25u	5.0Ø	1.0m	80	500nb	40	5.0	35p	AΔ	
84	TR45	150m	1.5M	2.5m		#J	45		5.0	400m	16u	1.0Ø	20mØ	20 †				20p		TO5
85	2N569	150m	2.0M	2.5m		#S	30	20	10	300m	5.0uØ	5.0Ø	1.0mØ	150	2.0ub	30	5.0	30p	A	R109 A§
86#	2SB75	150m	2.0M				2.5	25 Ø	12	100m	14u	6.0Ø	1.0mØ	55	17k	17k	3.0		A	TO1
87#	2SB77	150m	2.0M				25	25 Ø	12	100m	14u	6.0Ø	1.0mØ	70	26u	1.9k	3.8		A	TO1
88#	2SB77A	150m	2.0M				45	45 Ø	12	100m	25u	6.0Ø	1.0mØ	70	26u	1.9k	3.8		A	TO1
89#	2SB439	150m	2.0M	3.0m		ØJ	30	20 §	12	150m	14uØ	6.0Ø	1.0m	130	45u	4.0k	8.0	30p	AØ	TO1
90#	2SB440	150m	2.0M	3.0m		ØJ	30	20 §	12	150m	14uØ	6.0Ø	1.0m	130	45u	4.0k	8.0	30p	AØ	TO1
91#	ASY56N	150m	2.0MΔ	2.5m			16	10	12	200m	10u	0.0	10m	40				20pØ	A	TO5 A
92	TR650	150m	2.0M	2.5m		#J	45	25	25	400m	15uØ	6.0Ø	1.0m	40				20p	A	TO5 A
93	TR653	150m	2.0M	2.5m		#J	30	15	25	400m	15uØ	6.0Ø	1.0m	40				20p	A	TO5 A
94	TR44	150m	2.2M	2.5m		#J	45		5.0	400m	16u	1.0Ø	20mØ	30 †				20p		TO5
95	JAN2N425†	150m	2.5MΔ	2.0m		#S	30	20	20	400m	3.0uØ	.25Ø	1.0mΔ	20 †Δ				20pØ		TO5 A
96	2N1352	150m	2.5MΔ	2.5m		#J	30	20	15	200m	5.0u	6.0	1.0m	70 †				18p	A	TO5 A
97	TR43	150m	2.5M	2.5m		#J	45		5.0	400m	16u	1.0Ø	20mØ	45 †				20p		TO5
98	TR320	150m	2.5MΔ	2.5m		#J	30		5.0	200m	16u	1.0Ø	20mØ	50				20p		TO5
99	TR323	150m	2.5M	2.5m		#J	16		5.0	200m	16u	1.0Ø	20mØ	75				20p		TO5
100	TR722	150m	2.5MΔ	2.5m		#J	30		10	200m	20u	6.0	1.0m	22				20p		TO5
101	UPI1352	150m	2.5M	2.5m		#J	30	20	15	200m	5.0u	6.0	1.0m	70 †				18p	A	OV9 A
102	JAN2N44A	150m	3.0MØ	2.5m		#J	45	30 §	5.0		16u	5.0Ø	1.0m	38 Ø	1.5uØb	38 Ø		60pØ		R32 A
103	JAN2N426†	150m	3.0MΔ	2.0m		#S	30	18	20	400m	3.0uØ	.25Ø	1.0mΔ	30 †Δ				20pØ		TO5 A
104	2N520A	150m	3.0MΔ	2.0m		#S	25	15	10		2.0uØ	5.0Ø	1.0m	40 Δ	1.5uØb				Δ	TO5 A
105	2N571	150m	3.0M	2.5m		#S	30	10	10	300m	5.0uØ	5.0Ø	1.0mØ	200	2.0ub	30	10	30p	A	R109 A§
106	2N1303	150m	3.0MΔ	2.5m		#J	30		25	300m	6.0uØ	1.0Ø	10mØ	20 †Δ				20pØ	Δ	TO5 A§
107	JAN2N1303	150m	3.0MΔ	2.5m		#S	30		25	300m	6.0uØ	1.0Ø	10mØ	20 †Δ				20pØ		TO5 A§
108#	ASY54N	150m	3.0MΔ	2.5m		#J	30	20	30	500m	10uØ	1.0Ø	50m	60 †				20pØ	AØ	TO5 A
109#	NKT133	150m	3.0M	2.1m		#J	30		25	300m	6.0uØ	1.0Ø	10m	20 †Δ				20pØ	A	TO5 A
110#	SFT237	150m	3.0MΔ	2.5m		#J	15	15 #	9.0	100m	2.0uØ	6.0Ø	1.0mØ	100	60u	2.7k	5.0		AØ	TO5 A

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1	TR526	150m	3.0M	2.5m	#J	45		15	500m	10u	5.0	1.0m	73	420nb	30	6.5	25p	A			
2	TR721	150m	3.0M△	2.5m	#J	30		10	200m	20u	6.0	1.0m	45				20p		TO5		
3	TR321	150m	3.1M△	2.5m	#J	20		5.0	200m	16u	1.0Ø	20mØ	80				20p		TO5		
4	TR527	150m	3.3M			45		15	500m	10u	5.0	1.0m	91	370nb	31	8.0	25p	A			
5	JAN2N43A	150m	3.5MØ	2.5m	#J	45	30 §	5.0		16u	5.0Ø	1.0m	66 Ø	1.5ubØ	35 Ø		60pØ		R32	A	
6	TR482	150m	3.5M	2.5m	#J	14		5.0	200m	10u	60	1.0m	20				12p		TO5		
7	TR508	150m	3.5M	2.5m	#J	16		5.0	200m	16u	1.0Ø	20mØ	25				20p		TO5		
8#	ASY57N	150m	3.7M△	2.5m		16	10	12	200m	10u	0.0	10m	50				20pØ	A	TO5	A	
9	2N394	150m	4.0M△	2.5m	#S	10	10	10	200m		1.0Ø	10mØ	20 †△					A△	TO5	A§	
10	JAN2N404	150m	4.0M△	2.5m	#J	25	24	12	200m	5.0uØ	.15Ø	12mØ	30 △				20pØ		TO5	A	
11	2N404A	150m	4.0M△	2.0m	#J	40	35	25	150m	5.0uØ							20pØ	A△	TO5		
12	JAN2N404A	150m	4.0M△	2.0m	#J	40	35	25	200m	5.0uØ	.15Ø	12mØ	30 △				20pØ		TO5	A	
13	2N1404	150m	4.0M△	2.5m		25		20	300m	5.0u	.20Ø	24mØ	100 †				8.0p	A	TO5	A§	
14	GT2693	150m	4.0M	2.5m	#J	30	15	20		25u	5.0Ø	1.0m	50	5.0ub			15p	FA	TO5		
15	GT2695	150m	4.0M	2.5m	#J	30	15	20		25u	5.0Ø	1.0m	20	5.0ub			15p	FA	TO5		
16	TR-C45	150m	4.0M	2.5m	#J	12		9.0		10u	6.0	1.0m	40				12p		TO5		
17	UPI404A	150m	4.0M	2.0m	#J	40	35	25	150m	5.0uØ	.30Ø	40m	100				20p	A	OV9	A	
18	2N395†	150m	4.5M	2.5m	#S	30	15	20	200m	6.0uØ	1.0Ø	10mØ	20 †△				12p	A	TO5	A§	
19	JAN2N123†	150m	5.0M△	2.5m	#J	20	15	10		6.0u	5.0Ø	1.0m	60 △				25pØ	A	R109	A	
20	JAN2N416	150m	5.0M△	2.0m	#J	30		12		25u	6.0	1.0m	45 △				20pØ		R81	A	
21	JAN2N427†	150m	5.0M△	2.0m	#S	30	15	20	400m	3.0uØ	.25Ø	1.0m△	45 †△				20pØ		TO5	A	
22	2N1093	150m	5.0M△	2.5m	#S	30	15	15	300m	6.0u	5.0Ø	1.0mØ	40 △				20p		TO5	AØ	
23	2N1115	150m	5.0M△	2.5m	#S	20	15	10	125m	6.0u							20pØ	A△	R109	A§	
24	2N1305	150m	5.0M△	2.5m	#J	30		25	300m	6.0uØ	1.0Ø	10mØ	40 †△				20pØ	△	TO5	A§	
25	JAN2N1305	150m	5.0M△	2.5m	#S	30		25	300m	6.0uØ	1.0Ø	10mØ	40 †△				20pØ		TO5	A§	
26	2N1347	150m	5.0M△	2.5m	#J	20	12	10	200m	6.0uØ	1.0Ø	10mØ	80 †				12p	A△	TO5	A	
27	2N1731	150m	5.0M△	2.5m	#S	30	30 #	25	300m	6.0u	1.0Ø	10mØ	40 †△				20pØ		TO5	A§	
28#	AF187	150m	5.0M			18			100m									A	TO1		
29#	NKT135†	150m	5.0M	2.1m	#J	30	20	25	300m	6.0uØ	1.0Ø	10mØ	40 †△				20pØ		TO5	A	
30	UPI1347	150m	5.0M	2.5m	#J	20	12	10	200m	6.0uØ	1.0Ø	10m	50 †				12p	A	TO5	A	
31#	2SA414†	150m	5.5M§		#J	30	25	20	200m	3.0uØ	.50Ø	100mØ	30 †					A	TO5		
32#	SFT226†	150m	5.5M§	2.5m	#J	40	32 §	24	250m	10u	.50Ø	10mØ	25 †△					A△	TO5	A	
33	2N1343†	150m	6.0M	2.5m	#J	20	16	10	400m	6.0u	.35Ø	50mØ	15 †△				12p	A△	TO5	A	
34	2N302	150m	7.0M△	2.5m	#J	30	10	20	200m	1.0uØ	6.0	1.0m	45				12p$	AF	OV4	F	
35	2N394A	150m	7.0M	2.5m	#S	30	15 §	20	200m	6.0uØ	1.0Ø	10mØ	70 †		2.0k		12p	A	TO5	AØ	
36	2N1344†	150m	7.0M△	2.5m	#J	15	10	10	400m	10u	1.0Ø	20mØ	90 †				12p	A	TO5	A	
37#	ASY58N	150m	7.0M△	2.5m		16	10	12	200m	10u	0.0	10m	70				20pØ	A	TO5	A	
38#	SFT227†	150m	7.5M§	2.5m	#J	30	24 §	18	250m	10u	.50Ø	10mØ	35 †△					A△	TO5	A	
39	2N123†	150m	8.0M	2.5m	#S	20	15	10	125m	6.0u	5.0	1.0m	980m	900nb	28	8.0	15p$		R31	A§	
40	2N396†	150m	8.0M	2.5m	#S	30	20	20	200m	6.0uØ	1.0Ø	10mØ	30 †△				12p	A	TO5	A§	
41	2N521A	150m	8.0M△	2.0m	#S	25	12	10		2.0uØ	5.0Ø	1.0m	70 △	1.5uØb				△	TO5	A	
42	2N1284†	150m	8.0M	2.5m	#J	20	15	10	400m	6.0u	1.0Ø	10mØ	90	b		90	15p	A△	TO5	A	
43#	2SA415†	150m	8.0M§		#J	25	20	20	200m	3.0uØ	.50Ø	100mØ	45 †					A	TO5		
44#	ASY26-RT†	150m	8.0M§	2.5m	#J	30	15	20	200m	7.0u	5.0Ø	2.0mØ	50	65u	750	5.0	11p$	A	TO5	A§	
45#	ASY55N	150m	8.0M△	2.5m	#J	20	5.0	20	300m	10u	1.0Ø	10m	60 †				20pØ	AØ	TO5	A	
46	TR123	150m	8.0M	2.5m	#J	20		10	125m	6.0u	5.0	1.0m	65	600nb	28	8.0	15p	A△			
47	TR396	150m	8.0M	2.5m	#S		20	20	200m	6.0u	5.0	1.0m	90	90ub			12p	A△			
48	TR-C44	150m	8.0M	2.5m	#J	6.0		6.0		10u	6.0	1.0m	80				12				
49	2N616	150m	9.0M		#J	15	12	10	150m	6.0u	9.0	500u	25				7.0p	F	TO5	A	
50	JAN2N428†	150m	10MΔ	2.0m	#S	30	12	20	400m	25u	.25Ø	1.0m△	60 †△				20pØ		TO5	AØ	
51	2N428A†	150m	10MΔ	2.0m	#S	30	18	20	1.0 #	4.0uØ	.25Ø	1.0m△	80 †△				20pØ		TO5	A	
52	2N450	150m	10.M	2.5m	#J	20	12	10	125m	6.0uØ	5.0Ø	1.0m	130	90u	4.0k	6.5	20pØ	A△	R109	AØ	
53	2N1307	150m	10MΔ	2.5m	#J	30		25	300m	6.0uØ	1.0Ø	10mØ	60 †△				20pØ	△	TO5	A§	
54	JAN2N1307	150m	10MΔ	2.5m	#S	30		25	300m	6.0uØ	1.0Ø	10mØ	60 †△				20pØ		TO5	A§	
55	2N1345†	150m	10.MΔ	2.5m	#J	10	8.0	6.0	400m	6.0u	.30Ø	400mØ	60 †				14p	A	TO5	A	
56	2N1346†	150m	10.MΔ	2.5m	#J	12	10	8.0	400m	5.0uØ	.25Ø	.35mØ	125 †				14p	A	TO5	A	
57	2N1969†	150m	10.MΔ	2.5m	#J	30	15	20	400m	25u	.25Ø	.20mΔ	50 †△				20pØ		TO5	A	
58#	AF188	150m	10.M			18			100m									A	TO1		
59#	NKT137†	150m	10.M	2.1m	#J	30	15	25	300m	6.0uØ	1.0Ø	10mØ	60 †△				20pØ		TO5	A	
60	UPI1345	150m	10M	2.5m	#J	10	8.0	6.0	400m	6.0u	.30Ø	400m	65 †				14p	A	TO5	A	
61	2N518	150m	11M	2.5m	#J	45		30	125m	6.0u	1.0Ø	10mØ	60	b		100	12p	A	R32		
62	2N397†	150m	12M	2.5m	#S	30	15	20	200m	6.0uØ	1.0Ø	10mØ	40 †△				12p	A	TO5	A§	
63#	ASY59N	150m	12M	2.5m		16	10	12	200m	10u	0.0	10m	100				20pØ	A	TO5	A	
64#	SFT228†	150m	12.M§	2.5m	#J	24	20 §	12	250m	10u	.50Ø	10mØ	50 †△					A△	TO5	A	
65	2N404†	150m	13.M	2.5m	#A	25		12	100m	20u	.20Ø	24mØ	40 †				12p	A	TO5	A§	
66	UPI404	150m	13M	2.5m	#A	27	150m	12	100m	20u	.20Ø	25mØ	40 †				12p	A	TO5	A	
67	2N303	150m	14.MΔ	2.5m	#J	30	10	20	200m	1.0uØ	6.0	1.0m	75				12p$	AF	OV4	F	
68#	ASY27-RT†	150m	14M§	2.5m	#J	25	15	20	200m	7.0u	5.0Ø	2.0mØ	90	100u	1.4k	7.5	11p$	A	TO5	A§	
69	JAN2N417	150m	15MΔ	2.0m	#J	30		12		25u	6.0	1.0m	60 △				20pØ		R81	A	
70	2N522A	150m	15MΔ	2.0m	#S	25	10	10		2.0uØ	5.0Ø	1.0m	100 △	1.5uØb				△	TO5	A	
71	2N1309	150m	15MΔ	2.5m	#J	30		25	300m	6.0uØ	1.0Ø	10mØ	80 †△				20pØ	△	TO5	A§	
72	JAN2N1309	150m	15MΔ	2.5m	#S	30		25	300m	6.0uØ	1.0Ø	10mØ	80 †△				20pØ		TO5	A§	
73♦	2N1309A	150m	15MΔ	2.5m	#J	35		35	300m	6.0uØ	1.0Ø	10mØ	80 †△				20pØ	△	TO5	A§	
74#	ACY38	150m	15.M§	2.5m	#S	15	15 #	9.0	100m	2.0uØ	6.0	1.0m	100 *	60u	3.0k	5.0		AØ	TO5		
75#	NKT139	150m	15M	2.1m	#J	30	15	25	300m	6.0uØ	1.0Ø	10m	60 †△				20pØ	A	TO5	A	
76#	SFT288†	150m	16.M	2.5m	#J	24		12	500m	10u	.35Ø	400mØ	40 †△				12p	A△	TO5	A	
77#	SFT319	150m	20.M§	2.5m	#J	20		.50	10m	15uØ	9.0Ø	1.0mØ	50				2.5p	D	TO1	A	
78	2N523A	150m	21MΔ	2.0m	#S	20	6.0	10		2.0uØ	5.0Ø	1.0m	125 △	1.5uØb				△	TO5	A	
79	MM4404†	150m	25M	2.0m	#J	40	35 Ø	25	250m	5.0uØ	6.0Ø	1.0mØ	145	50u	4.0k	8.5	20pØ	MEØ	TO18	A	
80	MM4404A	150m	25M	2.0m	#J	40	35 Ø	25	250m	5.0uØ	6.0Ø	1.0mØ	145	50u	4.0k	8.5	4.0p	MEØ	TO18	A	
81#	SFT229†	150m	25.M	2.5m	#J	18	15 §	12	250m	10u	.50Ø	10mØ	75 †△					A△	TO5		
82	TR764	150m	25.M	2.8m	#J	20			200m	5.0u	4.5	1.0m	200					A			
83#	SFT320	150m	35.M§	2.5m	#J	20		.50	10m	15uØ	9.0Ø	1.0mØ	80				2.5p	D	TO1	A	
84	2N1300†	150m	40M§	2.5m	#A	13	12	1.0	100m	3.0uØ	.30Ø	10mØ	50					ME	TO5	A	
85	2N1854	150m	40.M§△	2.5m	#J	18		2.0	100m	4.2u	.50Ø	20m	40 △				12pØ		TO5	A	
86	JAN2N1854†	150m	40M§△	3.7m	#S	18		2.0	100m	40uØ†	.75Ø	100mØ	25 †△						TO5	A	
87#	SFT317	150m	40.M§	2.5m	#J	20		50	10m	15uØ	9.0Ø	1.0mØ	100				2.5p	D	TO1	A	
88	2N1301†	150m	60M§	2.5m	#A	13	12 §	4.0	100m	3.0uØ	.30	10mØ	50					DM	R81m	A	
89	UPI1301	150m	60M	2.5m	#A	13	12	4.0	100m	3.0u	.30	10mØ	50 † ♦					DM	OV9	A	
90	2N1683†	150m	80.M	2.0m	#A	13	12	4.0	100m	3.0uØ	.50Ø	40mØ	85 †				8.0p	ME	TO5	A	
91	HEP1-RT	150m♦	100M§		#J	12	12 Ø$	2.0	100m$	5.0u$	6.0		50 †						TO18	A	
92	HEP635-RT	150m♦	100M§		#J	30	25 Ø$	2.5	100m$	5.0u$	5.0		85 †						TO5	A	
93	2N711†	150m	150M§△	2.0m	#J	12	12 Ø	1.0	100m	3.0uØ	.50Ø	10mØ	20 †△				7.5pØ		TO18	AØ	
94	2N711A†	150m	150M§	2.0m	#S	15	7.0	1.5	100m	1.5uØ	.50Ø	10mØ	25 †△				6pØ	ME	TO18	AØ	
95	2N711B†	150m	150M§	2.0m	#S	18	7.0	2.0	100m	1.5uØ	.50Ø	10mØ	30 †△				6pØ	ME	TO18	AØ	
96	2N2048†	150m	150M§△	2.0m	#S	20	15	2.0	100m	5.0uØ	.50Ø	10mØ	50 †△				3.0pØ		TO9	A	
97	2N2048A†	150m	150M§△	2.0m	#S	30	20	2.5	3.0u		.50Ø	50mØ	40 †△				3.0pØ		TO9	A	
98	2N2400†	150m	150M§△	2.0m	#S	12	7.0	1.0	100m	3.0uØ	.50Ø	10mØ	30 †△				4pØ		TO18	A	
99	2N2635†	150m	150M§△	2.0m	#S	30	15	2.5	100m	5.0uØ	1.0Ø	50mØ	45 †△				5.0pØ		TO18	AØ	
100	2N2401†	150m	200M§△	2.0m	#S	15	10	1.5	100m	1.5uØ	.50Ø	10mØ	50 †△				4pØ		TO18	A	
101	2N2955†	150m	200M§△	2.0m	#S	40	25	3.5	100m		1.0Ø	10mØ	20 †△						TO18	AØ	
102	2N3325	150m	200M§△	2.0m	#J	35	35 Ø	3.0	100m	10uØ	10Ø	3.0mØ	30 △				3pØ		TO18	A	
103♦	2N6365	150m	200M§△	2.0m	#S	30	10	10	1.0	10uØ	6.0Ø	1.0mØ	20 †△				2.0p$Ø		TO18	AØ	
104	JAN2N6365	150m	200M§△	2.0m	#S	30	25 Ø	1.0	100m	10uØ	6.0Ø	1.0mØ	15 △				2.0p$Ø		TO18	AØ	
105♦	2N6365A	150m	200M§△	2.0m	#S	30	10	10	1.0	10uØ	6.0Ø	1.0mØ	20 †△				2.0p$Ø		TO18	AØ	
106	JAN2N6365A	150m	200M§△	2.0m	#S	30	25 Ø	1.0	100m	10uØ	6.0Ø	1.0mØ	180 △				2.0p$Ø		TO18	AØ	
107	2N827	150m	250M§△	2.0m	#S	20	20 Ø	4.0	100m		.30Ø	10mØ	100 †△				9pØ	△	TO18	A	
108	2N963†	150m	250M§△	2.0m	#J	12	7.0	1.2	100m	5.0uØ	.30Ø	10mØ	20 †△				5.0pØ		TO18	AØ	
109	2N967†	150m	250M§△	2.0m	#J	12	7.0	1.2	100m	5.0uØ	.30Ø	10mØ	40 †△				5.0pØ		TO18	AØ	
110	2N2258†	150m	250M§△	2.0m	#J	7.0	7.0	1.0	100m	10uØ	1.0Ø	10mØ	30 †				4.0p	ME	TO18	A	

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D T0200 D E Ser.
1	2N2259†	150m	250M§Δ	2.0m	#J	7.0	7.0	1.0	100m	10uØ	1.0Ø	10mØ	50 †				4.0p	ME	TO18 A
2	2N2402†	150m	250M§Δ	2.0m	#S	18	12	2.0	100m	1.5uØ	.50Ø	10mØ	60 †Δ				4pØ		TO18 A
3#	AF179	150m	270M§	3.1m	ØJ	25	25 §		10m	8.0uØ		3.0mØ	30 †					AD	TO12
4	JAN2N559†	150m	300M§Δ	2.0m	$S	15	15 Ø	5.0	50m	3.0uØ	.50Ø	10mØ	30 †Δ#				6.0pØ		TO18 AØ
5	2N741A	150m	300M§Δ	4.0mØ	#J	20	20	1.0	100m	3.0uØ	4.0Ø	5.0mØ	20 Δ		15 Øb		10pØ		TO18 AØ
6	2N828†	150m	300M§Δ	2.0m	#J	15	6.0	2.5	200m	3.0uØ	.30Ø	10mØ	25 †Δ				6pØ		TO18 AØ
7	2N829†	150m	300M§Δ	2.0m	#S	15	6.0	2.5	200m	3.0uØ	.30Ø	10mØ	50 †Δ				4pØ		TO18 AØ
8	2N838	150m	300M§Δ	2.0m	#S	30	30 Ø	2.5	100m		.30Ø	10mØ	30 †Δ				4pØ	Δ	TO18 AØ
9	2N960†	150m	300M§Δ	2.0m	#J	15	7.0	2.5	100m	3.0uØ	.30Ø	10mØ	20 †Δ				4pØ		TO18 AØ
10	2N961†	150m	300M§Δ	2.0m	#J	12	7.0	2.0	100m	3.0uØ	.30Ø	10mØ	20 †Δ				4pØ		TO18 AØ
11	2N962†	150m	300M§Δ	2.0m	#J	12	7.0	1.2	100m	3.0uØ	.30Ø	10mØ	20 †Δ				4.0pØ		TO18 AØ
12	JAN2N962†	150m	300M§Δ	2.0m	#J	12	7.0	1.3	200m	3.0uØ	.30Ø	10mØ	20 †Δ				5.0pØ	E	TO18 AØ
13	2N964†	150m	300M§Δ	2.0m	#J	15	7.0	2.5	100m	3.0uØ	.30Ø	10mØ	40 †Δ				4pØ		TO18 AØ
14	JAN2N964†	150m	300M§Δ	2.0m	#J	15	7.0	2.5	200m	3.0uØ	.30Ø	10mØ	40 †Δ				5.0pØ	E	TO18 AØ
15	2N964A†	150m	300M§Δ	2.0m	#S	15	7.0	2.5	100m	3.0uØ	1.0Ø	50mØ	48 †Δ				4pØ		TO18 AØ
16	2N965†	150m	300M§Δ	2.0m	#J	12	7.0	2.0	100m	3.0uØ	.30Ø	10mØ	40 †Δ				4pØ		TO18 AØ
17	2N966†	150m	300M§Δ	2.0m	#J	12	7.0	1.2	100m	3.0uØ	.30Ø	10mØ	40 †Δ				4.0pØ		TO18 AØ
18	2N968†	150m	300M§Δ	2.0m	#J	15	15 Ø	2.5	200m	3.0uØ	.50Ø	10mØ	17 †Δ				8pØ		TO18 AØ
19	2N969†	150m	300M§Δ	2.0m	#J	12	12 Ø	2.0	200m	3.0uØ	.50Ø	10mØ	17 †Δ				8pØ		TO18 AØ
20	2N970†	150m	300M§Δ	2.0m	#J	12	12 Ø	1.2	200m	3.0uØ	.50Ø	10mØ	17 †Δ				8.0pØ		TO18 AØ
21	2N971†	150m	300M§Δ	2.0m	#J	7.0	7.0 Ø	1.2	200m	10uØ	.50Ø	10mØ	17 †Δ				8.0pØ		TO18 AØ
22	2N972†	150m	300M§Δ	2.0m	#J	15	15 Ø	2.5	200m	3.0uØ	.50Ø	10mØ	40 †Δ				8pØ		TO18 AØ
23	2N973†	150m	300M§Δ	2.0m	#J	12	12 Ø	2.0	200m	3.0uØ	.50Ø	10mØ	17 †Δ				8pØ		TO18 AØ
24	2N974†	150m	300M§Δ	2.0m	#J	12	12 Ø	1.2	200m	3.0uØ	.50Ø	10mØ	17 †Δ				8.0pØ		TO18 AØ
25	2N975†	150m	300M§Δ	2.0m	#J	7.0	7.0 Ø	1.2	200m	10uØ	.50Ø	10mØ	40 †Δ				8.0pØ		TO18 AØ
26	2N985†	150m	300M§	2.0m	#J	15	7.0	3.0	200m	100u	.50Ø	100m	60 †Δ				6.0p	EM	TO18 AØ
27	2N3449†	150m	300M§Δ	2.0m	#S	15	6.0	1.5	100m	3.0uØ	.25Ø	10mØ	20 †Δ				5pØ		TO18 AØ
28	JAN2N3449†	150m	300M§Δ	2.0m	#S	15	6.0	1.5	100m	100u	.25Ø	10mØ	20 †Δ				5.0pØ		TO18 AØ
29	2N2956†	150m	375M§	2.0m	#J	40	20	3.5	100m		1.0Ø	50mØ	76 †				4pØ	EMΔ	TO18 A
30	2N828A	150m	400M§	2.0m	#J	15		2.5		3.0u	.30Ø	10mØ	25 †Δ					EMΔ	TO18 AØ
31	2N2957†	150m	400M§	2.0m	#J	40	18	3.5	100m		1.0Ø	50mØ	130 †				4pØ	EMΔ	TO18 A
32	2N3371	150m	400M§Δ	2.0m	♦S	25	10	.30	100m	7.0uØ	6.0Ø	12mØ	25 Δ				4.0pØ	Ø	TO18 Ø
33#	2SA417†	150m	400M§	2.0m	#J	15	15 Ø	2.5	200m		.30Ø	10mØ	70 †				4.0p	EM	TO46 AØ
34	JAN2N1094	150m	560M§Δ	2.0m	#J	30		1.0	40m	5.0uØ	6.0Ø	4.0mØ	15 †Δ	20uØb	15 Ø	30 Ø		D	TO28 AØ
35	2N2455†	150m	600M§Δ	2.0m	#S	15	8.0	2.5	200m	2.0uØ	.20Ø	2.0mØ	20 †Δ				3.5pØ		TO18 AØ
36	2N3323	150m	600M§	2.0m	#J	35	35 Ø	3.0	100m	10uØ	10Ø	3.0mØ	30 Δ				3pØ		TO18 A
37	2N3324	150m	600M§	2.0m	#J	35	35 Ø	3.0	100m	10uØ	10Ø	3.0mØ	30 Δ				3pØ		TO18 A
38	HEP636-RT	150m♦	600M§		#J	35	35 Ø§	3.0	100m§	500n§	10		120 †						TO18 A
39	2N3784	150m	700M§Δ	2.0m	#J	30	20	.50	20m	5.0uØ	10Ø	3.0mØ	20 Δ				1pØ	EMØ	TO72 G
40	2N3785	150m	700M§Δ	2.0m	#J	15	12	.50	20m	5.0uØ	10Ø	3.0mØ	15 Δ				1.2pØ	EMØ	TO72 G
41	2N3783	150m	800M§Δ	2.0m	#J	30	20	.50	20m	5.0uØ	10Ø	3.0mØ	20 Δ				1pØ	EMØ	TO72 G
42	HEP637-RT	150m♦	800M§		#J	20	15 Ø§	.30	10m§	5.0u§	10		120 †						TO72 G
43	MM5000	150m	800M§Δ	2.0m	#J	30	15	.30	10m		12Ø	3.0mØ	30 †Δ				.6p§Ø	Ø	TO72 G
44	MM5001	150m	800M§Δ	2.0m	#J	30	15	.30	10m		12Ø	3.0mØ	30 †Δ				.6p§Ø	Ø	TO72 G
45	MM5002	150m	800M§Δ	2.0m	#J	30	15	.30	10m		12Ø	3.0mØ	30 †Δ				.6p§Ø	Ø	TO72 G
46	2N2456†	150m	1.0G§Δ	2.0m	#S	15	8.0	2.5	200m	2.0uØ	.20Ø	2.0mØ	20 †Δ				3.0pØ		TO18 AØ
47	2N44A	155m	1.0MØ	2.5m	#S		25		50m	8.0u	5.0	1.0m	31				40p		R32 A
48#	AC128	155m*	1.5M§	3.3m	#J	32	32 §	10	1.0 #	10uØ	0.0	300m	90 †				100p§	A	T01 F
49#	AF180	156m	250M	3.1m	ØJ	25	25		25m	10uØ	5.0	14m	14 †Δ				3.0p	ADØ	TO12
50	AFY42	160m	650M	1.3m	ØS	30	25	.30	10m	6.0u	10Ø	2.0mØ	33 †				250f		TO18
51	2N109	165m		2.7m	#S	35	25	12	150m	7.0uØ	6.0Ø	1.0m	50 Δ						TO40 A
52	2N217	165m		2.7m	#S	35	25	12	150m	7.0uØ	6.0Ø	1.0m	50 Δ		4.0k		60pØ		TO1 A
53#	2SB345	165m	17k†	3.3m	ØJ	32		10	100m	10uØ	5.0	2.0m	125					A	TO1
54#	2SB346	165m	17k†	3.3m	ØJ	32		10	100m	10uØ	5.0	2.0m	220					A	TO1
55#	OC72	165m	350k	2.5m	ØJ	32	16	10	125m	10uØ	5.4Ø	10mØ	70 †					A	R8
56	SK3004-RT	165m	1.0M§			35	25	12	100m		1.0	50mØ	90 †					A	TO1 A
57	2N2428	165m	1.2MΔ	303u	ØJ	32	32 §	10	30m	10uØ	5.0	2.0m	120					A	TO1 A
58#	2SB371	165m	2.0M	3.3m	ØJ	32		10	200m	15uØ	.50Ø	50m	125 †					A	TO1
59	2N2429	165m	2.3M§	303u	ØJ	32	30 §	10	100m	10uØ	5.0	2.0m	40				50pØ	A	TO1 A
60	JAN2N1008B	167m	500kΔ	2.2m	#S	60	55 §	20	300m	15u	5.0Ø	10mØ	40 Δ		800 Ø		50pØ		TO5 A
61	2N359	170m		2.8m	#S	25	18	6.0	400m	15uØ	1.0Ø	50mØ	100 †Δ						TO5 A
62	2N360	170m		2.8m	#S	32	30	6.0	400m	15uØ	1.0Ø	50mØ	50 †Δ						TO5 A
63	2N361	170m		2.8m	#S	32	30	6.0	400m	15uØ	1.0Ø	50mØ	25 †Δ						TO5 A
64	2N362	170m		2.8m	#S	25	18	6.0	200m	15uØ	6.0	1.0m	50 Δ						TO5 A
65	2N363	170m		2.8m	#S	32	28	6.0	200m	15uØ	6.0	1.0m	25 Δ						TO5 A
66#	2SB22	170m			ØJ	25		25	75m	15u	1.5Ø	30m	95					A	TO1
67	2N1171	170m	10.MΔ	2.9m	#J	30	12	20	400m	5.0uØ	.25Ø	1.0mΔ	30 †Δ				14p	FAΔ	TO5 A
68	2N59	180m			#J	25	20	10	200m	15uØ									TO5 A
69	2N60	180m			#J	25	20	10	200m	15uØ									TO5 A
70	2N61	180m			#J	25	20	10	200m	15uØ									TO5 A
71	2N291	180m		4.0m	*A	25			200m	25u	.50Ø	100m	45					A	OV7
72	2N403	180m			#J	25	20	10	200m	15uØ	9.0Ø	1.0m	970m	200nb	30	3.0		F	TO5 A
73	2N609	180m	1.0k		#J	25	15	10	200m	15uØ		50mØ	100 †						TO5 A
74	2N610	180m	1.0k		#J	25	15	10	200m	15uØ		50mØ	80 †						TO5 A
75	2N611	180m	1.0k		#J	25	15	10	200m	15uØ		50mØ	60 †						TO5 A
76	2N402	180m	600k		#J	25	20	10	150m	15uØ	9.0Ø	1.0m	960m	600nb	33	2.0		F	TO5 A
77	2N612	180m	600k		#J	25	15	10	150m	15uØ				600nb	33	2.0		F	TO5 A
78	2N613	180m	850k		#J	25	15	10	200m	15uØ				200nb	30	3.0		F	TO5 A
79	2N61A	180m	1.0M	3.0m	#J	40	20	10	200m	15u		100mØ	45 †				40p	F	TO5 A
80	2N61B	180m	1.0M	3.0m	#J	50	20	10	200m	15u		100mØ	45 †				40p	F	TO5 A
81	2N61C	180m	1.0M	3.0m	#J	60	20	10	200m	15u		100mØ	45 †				40p	F	TO5 A
82	TR381	180m	1.2M	2.8m	#J		25					20mØ	50					A	
83	TR460	180m	1.2M	2.7m	#J	45		10	400m	15u	5.0	1.0m	24	1.0ub	40	3.0	50p	A	
84	TR461	180m	1.2M	2.7m	#J	45		10	400m	15u	5.0	1.0m	49	1.0ub	30	3.0	50p	A	
85	2N60A	180m	1.5M	3.0m	#J	40	20	10	200m	15u		100mØ	65 †				40p	F	TO5 A
86	2N60B	180m	1.5M	3.0m	#J	50	20	10	200m	15u		100mØ	65 †				40p	F	TO5 A
87	2N60C	180m	1.5M	3.0m	#J	60	20	10	200m	15u		100mØ	65 †				40p	F	TO5 A
88	TR382	180m	1.5M	2.8m	#J	25		10	200m	10u	1.0Ø	20mØ	52				50p	A	
89	2N59A	180m	1.8M	3.0m	#J	40	20	10	200m	15u		100mØ	90 †				40p	F	TO5 A
90	2N59B	180m	1.8M	3.0m	#J	50	20	10	200m	15u		100mØ	90 †				40p	F	TO5 A
91	2N59C	180m	1.8M	3.0m	#J	60	20	10	200m	15u		100mØ	90 †				40p	F	TO5 A
92	2N1681†	180mØ	5.0MΔ	2.4mØ	#S	30	15	20	200m	3.0uØ	.25Ø	10mØ	30 †Δ				20pØ		TO5 A
93	2N1313	180m	12M		#J	30	15	20	400m	25u	.25Ø	1.0mΔ	70 †					AΔ	R81m A
94#	AFY18	180m*	600M§	4.0m	#J	30	15	1.0	100m	10uØ	10Ø	10mØ	220				2.3p	EMØ	TO5
95	2N422A	185m	1.5MΔ	2.5m	#S	35	20	12	200m	6.0uØ	6.0Ø	1.0m	30 Δ					Ø	TO5 A
96#	ASY90	185m	5.0M	2.9m	#J	40	40 Ø	24	250m	20uΔ	50Ø	10mØ	60 †					A	TO1
97#	ASY91	185m	5.0M	2.9m	#J	25	25 Ø	10	250m	20uΔ	50Ø	10mØ	60 †					A	TO1
98#	AC191	185m	7.0M	2.9m	#J	32	32 Ø	25	250m	5.0u	6.0Ø	1.0mØ	100				7.0p	AØ	TO1
99#	AC192	185m	7.0M	2.9m	#J	32	32 Ø	10	250m	14uØ	6.0Ø	1.0mØ	100				7.0p	AØ	TO1
100	2N573	200m		2.8m	#S	40	25	25	250m	250uØ	1.0Ø	50mØ	30 †Δ						TO5 A
101	2N994†	200m		2.7m	$S	15	6.0	4.0	150m	3.0uØ	.25Ø	10mØ	45 †Δ				6pØ		TO18 AØ
102	2N1191	200m		2.8m	#S	40	25 §	25	200m	15uØ	1.0Ø	10mØ	20 †Δ						TO5 A
103	2N1192	200m		2.8m	#S	40	25 §	25	200m	15uØ	1.0Ø	10mØ	40 †Δ						TO5 A
104	2N1193	200m		2.8m	#S	40	25 §	25	200m	15uØ	1.0Ø	10mØ	70 †Δ						TO5 A
105	2N1194	200m		2.8m	#S	40	25 §	25	200m	15uØ	6.0Ø	1.0m	190 Ø						TO5 A
106	2N1280	200m		3.3m	#J	16	16	10	400m	10uØ	1.0Ø	20mØ	60 †					AΔ	TO5 A
107	2N1281	200m		3.3m	#J	16	12	10	400m	10uØ	1.0Ø	20mØ	90 †					AΔ	TO5 A
108	2N1282	200m		3.3m	#J	16	6.0	10	400m	10uØ	1.0Ø	20mØ	100 †					AΔ	TO5 A
109	2N1705	200m		2.8m	#S	18	12 §	5.0	400m	10uØ	6.0Ø	1.0mØ	70 Δ						TO5 A§
110	2N1706	200m		2.8m	#S	25	18 §	5.0	400m	10uØ	5.0Ø	10mØ	50 Δ						TO5 A§

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1	2N1707	200m		2.8m	#S	30	25 §	10	400m	15uØ	5.0Ø	10mØ	40 Δ						TO5	A§
2	2N1954†	200m		2.9m	#S	60	20	20	200m	20uØ	.50Ø	20mØ	30 †Δ						TO5	A
3	2N1955†	200m		2.8m	#S	60	18	20	200m	20uØ	.50Ø	20mØ	50 †Δ						TO5	A
4	2N1956†	200m		2.8m	#S	60	16	20	200m	20uØ	.50Ø	20mØ	30 †Δ						TO5	A
5	2N1957†	200m		2.8m	#S	60	14	20	200m	20uØ	.50Ø	20mØ	30 †Δ						TO5	A
6	2N2171	200m		2.7m	#S	50	25 §	20	400m	10uØ	5.0Ø	10mØ	120 Δ						TO5	A§
7#	2SB370	200m				2.5	25 Ø	6.0	500	20m	1.0Ø	150mΔ	70 †Δ					A	TO1	
8#	2SB370A	200m				32	32 Ø	12	500	20m	1.0Ø	150mΔ	70 †Δ					A	TO1	
9#	NKT270	200m		3.1m	#J	30		5.0	125m	10uØ	4.5Ø	1.0mØ	35 Δ						TO1	A
10#	ACY34	200m	200kΔ	3.1m	#J	30	10	20	50m		2.0Ø	500u	20 Δ				16p	A	TO1	A
11#	ACY36	200m	250kΔ	3.1m	#J	32	16	20	250m	12uØ	5.4Ø	10mØ	45 †Δ				14p	A	TO1	A
12#	ACY35	200m	300kΔ	3.1m	#J	30	10	20	50m		2.0Ø	3.0mØ	30 Δ				16p	A	TO1	A
13	JAN2N331	200m	400kΔ	2.7m	#S	30	16	12	200m	10u	6.0Ø	1.0mØ	30 Δ	1.0uØb	50 Ø		50pØ		TO5	A
14	2N2042	200m	500kΔ	2.6m	#J	105	105	75	200m	25u	6.0Ø	1.0mØ	80	550nb	40		25pØ	A	TO5	A
15	2N2042A	200m	500kΔ	2.7m	#S	105	105 Ø	75	200m	25u	6.0	1.0mØ	20 Δ	1.0uØb	50 Ø		25pØ		TO5	A
16#	ACY27	200m	500kΔ	3.1m	#J	40	20	30	250m	12uØ	12Ø	1.0mØ	20 Δ				16p	AØ	TO1	A
17#	ASY50	200m	500k	3.1m	#J	20	20	20	500m	12u	0.0	5.0mØ	15 †Δ					A	TO1	A
18	MA885	200m	500kΔ	2.6m	#J	50	50 Ø	15	500m	100u	6.0Ø	1.0m	15 Δ	7.0uØb	40 Ø		25p	A	TO5	A
19	2N650	200m	750k§Δ	2.7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	30 Δ		37 Øb				TO5	A
20	2N650A	200m	750k§Δ	2.7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	30 Δ	1.0uØb	37 Øb		25pØ		TO5	A
21	JAN2N650A	200m	750kΔ	2.6m	#S	45	30	30	500m	50u	6.0Ø	1.0m	30 Δ	700nØb	37 Ø	8.0 Ø	25pØ		TO5	A
22	2N1186	200m	750kΔ	2.7m	#S	60	45 §	30	500m	10uØ	6.0Ø	1.0m	30 Δ		37 Øb				TO5	A
23	2N2043	200m	750kΔ	2.6m	#J	105	105	75	200m	25u	6.0Ø	1.0mØ	180	550nb	40		25pØ	A	TO5	A
24	2N2043A	200m	750kΔ	2.7m	#S	105	105 Ø	75	200m	25u	6.0	1.0m	45 Δ	1.0uØb	50 Ø		25pØ		TO5	A
25#	ACY31	200m	750kΔ	3.1m	#J	40		20	250m	5.0uØ	12Ø	1.0mØ	35 Δ				16p	A	TO1	A
26	MA881	200m	750kΔ	2.6m	#J	60	60 Ø	15	500m	100u	6.0Ø	1.0m	30 Δ	100nØb	40 Ø		25p	A	TO5	A
27	MA886	200m	750kΔ	2.6m	#J	50	50 Ø	15	500m	100u	6.0Ø	1.0m	30 Δ	1.0uØb	40 Ø		25p	A	TO5	A
28	2N186A	200m	.80M	3.3m	#J	25	25 §	5.0	200m	16u	1.0Ø	100m	24 †		1.2k		40p		R32	
29	2N189	200m	800k	3.3m	#J		25 §		200m	16u	5.0	1.0m	32	1.0ub	29	4.0	40p	A	R32	
30#	NKT210	200m	.90MΔ	3.1m	#J	45	30	10	500m	10uØ	0.0Ø	25mØ	50 †Δ				60pØ		TO1	A
31#	NKT211	200m	.90MΔ	3.1m	#J	32	30	101	000m	10uØ	0.0Ø	50mØ	40 †Δ				60pØ		TO1	A
32#	NKT212	200m	.90MΔ	3.1m	#J	32	32 §	10	500m	10uØ	0.0Ø	50mØ	50 †Δ						TO1	A
33#	NKT213	200m	.90MΔ	3.1m	#J	32	32 §	10	250m	10uØ	4.5Ø	1.0mØ	50 Δ				60pØ		TO1	A
34#	NKT214	200m	.90MΔ	3.1m	#J	32	32 §	10	250m	10uØ	4.5Ø	1.0mØ	30 Δ				60pØ		TO1	A
35#	NKT215	200m	.90MΔ	3.1m	#J	32	32 §	10	250m	10uØ	4.5Ø	1.0mØ	15 Δ				60pØ		TO1	A
36#	NKT216	200m	.90MΔ	3.1m	#J	32	32 §	10	250m	10uØ	4.5Ø	1.0mØ	50 Δ				60pØ		TO1	A
37#	NKT217	200m	.90MΔ	3.1m	#J	60	40	10	500m	10uØ	0.0Ø	25mØ	50 †Δ				60pØ		TO1	A
38#	NKT219	200m	.90MΔ	3.1m	#J	32	32 §	10	250m	10uØ	4.5Ø	1.0mØ	85 Δ				60pØ		TO1	A
39	2N187A	200m	1.0M	3.3m	#J	25	25 §	5.0	200m	16u	1.0Ø	100m	36 †		2.0k		40p		R32	
40	2N190	200m	1.0M	3.3m	#J		25 §		200m	16u	5.0	1.0m	42	800nb	29	4.0	40p	A	R32	
41	2N322	200m	1.0MΔ	2.0m	#J	18	18 §	5.0	200m	16uØ	1.0Ø	20mØ	35 †Δ				35p	A	TO5	A§
42	2N651	200m	1.0M§Δ	2.7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	50 Δ		37 Øb				TO5	A
43	2N651A	200m	1.0M§Δ	2.7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	50 Δ	1.0uØb	37 Øb		25pØ		TO5	A
44	JAN2N651A	200m	1.0MΔ	2.6m	#S	45	30	30	500m	50u	6.0Ø	1.0m	50 Δ	700nØb	37 Ø	10 Ø	25pØ		TO5	A
45	2N1187	200m	1.0MΔ	2.7m	#S	60	45 §	30	500m	10uØ	6.0Ø	1.0m	50 Δ		37 Øb				TO5	A
46#	2SB415	200m	1.0M	3.3m	#J	32	32 §	6.0	1	14uØ	0.0	300m	70 †					A	TO1	A
47	HEP629-RT	200m♦	1.0M§		#J	55	40 Ø$	30	400m$	10u$	20		50 †						TO5	A
48	HEP630-RT	200m♦	1.0M§		#J	55	40 Ø$	30	400m$	10u$	20		110 †						TO5	A
49	MA100	200m	1.0MΔ	2.7m	#J	60	60 Ø	15	500m	100u	6.0Ø	1.0m	50 Δ				25pØ	A	TO5	A
50	MA882	200m	1.0MΔ	2.6m	#J	60	60 Ø	15	500m	100u	6.0Ø	1.0m	50 Δ	100nØb	40 Ø		25p	A	TO5	A
51	MA887	200m	1.0MΔ	2.6m	#J	50	50 Ø	15	500m	100u	6.0Ø	1.0m	50 Δ	1.0uØb	40 Ø		25p	A	TO5	A
52#	NKT271	200m	1.0M	3.1m	#J	15	15 §	5.0	500m#	10uØ	1.5Ø	50mØ	50 †Δ						TO1	A
53#	NKT272	200m	1.0M	3.1m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1.0mØ	35 Δ						TO1	A
54#	NKT274	200m	1.0M	3.1m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1.0mØ	85 Δ						TO1	A
55#	NKT275	200m	1.0M	3.1m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1.0m	30 Δ						TO1	A
56#	OC78	200m	1.0M	3.0m	#J	20	20	10	200m	10uØ	1.0Ø	125mØ	25 Δ				40p	A	TO1	A
57#	OC81DN	200m	1.0M§	3.3m	#J	32	16	10	250m	10u	6.0Ø	2.0mØ	20 †Δ				40p	A	TO1	A
58#	OC81N	200m	1.0M§	3.3m	#J	32	16	10	500m	10u	1.5Ø	50mØ	50 †Δ				40p	A	TO1	A
59	SK3005-RT	200m	1.0M§			40	35	25	5.0m				165 †					A	TO1	A
60	2N188A	200m	1.2M	3.3m	#J	25	25 §	5.0	200m	16u	1.0Ø	100m	54 †		2.6k		40p		R32	
61	2N191	200m	1.2M	3.3m	#J		25 §		200m	16u	5.0	1.0m	67	600nb	29	4.0	40p	A	R32	
62	2N460	200m	1.2M	5.0m	#J	45			400m	15u	5.0	1.0m	960m	1.0ub	30	3.0	50p	A	TO5	A
63	2N461	200m	1.2M	5.0m	#J	45			400m	15u	5.0	1.0m	980m	1.0ub	30	4.0	50p	A	TO5	A
64	2N652	200m	1.2M§Δ	2.7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	100 Δ		37 Øb				TO5	A
65	2N652A	200m	1.2M§Δ	2.7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	100 Δ	1.0uØb	37 Øb		25pØ		TO5	A
66	JAN2N652A	200m	1.2MΔ	2.6m	#S	45	30	30	500m	50u	6.0Ø	1.0m	100 Δ	700nØb	37 Ø	12 Ø	25pØ		TO5	A
67	2N1188	200m	1.2MΔ	2.7m	#S	60	45 §	30	500m	10uØ	6.0Ø	1.0m	100 Δ		37 Øb				TO5	A
68#	2SB167	200m	1.2M	3.3m	#J	20	20 Ø	2.5	500m	20uØ	6.0Ø	1.0m	80	38u	2.4k	8.9		A	TO1	
69#	2SB431	200m	1.2M	3.3m	#J	32	32 Ø	12	500m	20uØ	6.0Ø	1.0m	80	38u	2.4k	8.9		A	TO1	
70#	ACY28	200m	1.2M	3.1m	#J	40	15	30	500m	6.0uØ	12Ø	1.0mØ	45 Δ					A	TO1	A
71	MA883	200m	1.2MΔ	2.6m	#J	60	60 Ø	15	500m	100u	6.0Ø	1.0m	100 Δ	100nØb	40 Ø		25p	A	TO5	A
72	MA888	200m	1.2MΔ	2.6m	#J	50	50 Ø	15	500m	100u	6.0Ø	1.0m	100 Δ	1.0uØb	40 Ø		25p	A	TO5	A
73#	SFT351	200m	1.2M	3.3m	#J	24		12	150m	15u	6.0Ø	1.0mØ	30	20u	1.0k	2.7	32p	A	TO1	
74	2N241A	200m	1.3M	4.0m	ØJ	25	25 §	5.0	200m	16u	1.0Ø	100mØ	73 †		4.0k		40p		R32	
75#	SFT321	200m	1.3M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	30 †				32p	A	TO1	
76#	2SB534	200m	1.4M§		#	20	18	6.0	500m	20u	1.0Ø	150mØ	70 †Δ					A	TO1	A
77#	ACY29	200m	1.4M	3.1m	#J	40	15	30	250m	12uØ	12Ø	1.0mØ	45 Δ				16p	AØ	TO1	A
78	2N192	200m	1.5M	5.0m	#J		25 §		200m	16u	5.0	1.0m	90	500nb	29	4.0	40p	A	R32	
79	2N323	200m	1.5MΔ	2.0m	#J	18	18 §	5.0	200m	16uØ	1.0Ø	20mØ	53 †Δ				35p	A	TO5	A§
80	2N653	200m	1.5M	2.6m	#J	30	25	25	250m	15uØ	6.0Ø	1.0mØ	49		1.8k		10p	A	TO5	A
81	2N1451	200m	1.5M	3.3m	#J	45	20	10	400m	15u	2.0Ø	20mØ	45 †	1.0ub	40	3.0	20p	A	TO5	
82#	2SB263	200m	1.5M	3.3m	#J	20	18	2.5	150m	14uØ	6.0Ø	1.0m	60	19u	1.6k	4.3		A	TO1	
83#	2SB324	200m	1.5M§	3.3m	#J	32		10	500m	10uØ	1.0Ø	300mØ	90 †					A	TO1	
84	HEP250-RT	200m♦	1.5M§		#J	20	20 Ø$	2.5	200m$	15u$	20		65 †						TO5	A
85	HEP252-RT	200m♦	1.5M§		#J	20	20 Ø$	2.0	200m$	15u$	20		65 †						TO5	A
86	HEP631-RT	200m♦	1.5M§		#J	40	25 Ø$	25	200m$	15u$	25		45 †						TO5	A
87#	SFT322	200m	1.6M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	50 †				32p	A	TO1	A
88#	SFT352	200m	1.6M	3.3m	#J	24		12	150m	15u	6.0Ø	1.0mØ	50	27u	1.5k	3.2	32p	A	TO1	A
89	2N1185	200m	1.7MΔ	2.7m	#S	45	30 §	30	500m	50u	6.0Ø	1.0m	190 Ø		37 Øb				TO5	A
90	MA884	200m	1.7MΔ	2.6m	#J	60	60 Ø	15	500m	100u	6.0Ø	1.0m	190 Δ	1.0uØb	40 Ø		25p	A	TO5	A
91	MA889	200m	1.7MΔ	2.6m	#J	50	50 Ø	15	500m	100u	6.0Ø	1.0m	190 Δ	1.0uØb	40 Ø		25p	A	TO5	A
92#	ACY30	200m	1.8M	3.3m	#J	40	20	40		12uØ	12Ø	1.0mØ	60 Δ				35p	A	TO1	A
93	TR383	200m	1.8M	3.3m	#J	25		10	200m	25u	1.0Ø	150mØ	72 †				20p		TO5	
94	2N324	200m	2.0MΔ	2.0m	#J	18	18 §	5.0	200m	16uØ	1.0Ø	20mØ	72 †Δ				35p	A	TO5	A§
95	2N654	200m	2.0M	2.6m	#J	30	25	25	250m	15uØ	6.0Ø	1.0mØ	80		3.1k		10p	A	TO5	A
96	2N1446	200m	2.0M	3.3m	#J	45	25	15	400m	10uØ	6.0Ø	1.0mØ	30	600nb	25	300m	20p	AΔ	TO5	A
97	HEP632-RT	200m♦	2.0M§		#J	40	25 Ø$	25	200m$	15u$	25		80 †						TO5	A
98	MA4404†	200m	2.0M	2.6m	#J	25	24 Ø	12	350m	10uØ	6.0Ø	1.0mØ	145	50u	4.0k	8.5	25pØ	AØ	TO5	A
99	MA4404A	200m	2.0M	2.6m	#J	25	24 Ø	12	350m	10uØ	6.0Ø	1.0mØ	145	50u	4.0k	8.5	4.0p	AØ	TO5	A
100	2N1452	200m	2.2M	3.3m	#J	45	20	10	400m	15u	2.0Ø	20mØ	60 †	100nb	40	4.0	20p	A	TO5	A
101#	SFT353	200m	2.4M	3.3m	#J	24		12	150m	15u	6.0Ø	1.0mØ	80	40u	2.3k	3.8	32p	A	TO1	A
102	2N508	200m	2.5MΔ	3.3m	#J	18	18 §	5.0	200m	7.0uØ	1.0Ø	20mØ	99 †Δ				35pØ	A	TO5	A§
103	2N655	200m	2.5M	2.6m	#J	30	25	25	250m	15uØ	6.0Ø	1.0mØ	130		5.7k		10p	A	TO5	A
104	HEP251-RT	200m♦	2.5M§		#J	20	20 Ø$	2.0	200m$	15u$	20		150 †						TO5	A
105	HEP633-RT	200m♦	2.5M§		#J	40	25 Ø$	25	200m$	15u$	25		160 †						TO5	A
106#	SFT323	200m	2.6M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	85 †					A	TO1	A
107	2N381	200m	3.0M	5.0m	#J	50	25 §	20	400m	10uØ	5.0Ø	10mØ	35 Δ	420u	300	6.6	20p	AØ	TO5	A
108	2N1447	200m	3.0M	3.3m	#J	45	25	15	400m	10uØ	6.0Ø	1.0m	45	620nb	25	500m	20p	AΔ	TO5	A
109	HEP634-RT	200m♦	3.0M§		#J	40	25 Ø$	25	200m$	15u$	25		350 †						TO5	A
110	MA1703	200m	3.0MΔ	2.6m	#J	25	25 §	25	500m	15u	1.0Ø	100mØ	100 †Δ	b	35 Ø		20pØ	AΔ	TO5	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	MA1706	200m	3.0MΔ	2.6m	#J	15	15 §	4.5	500m	15u	1.0Ø	100mØ	100 †Δ	b	37 ☑		20p☑	AΔ	TO5	A
2	2N1413	200m	3.2M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1.0m	30	650nb	29	4.8	26p		TO5	A§
3	2N1189	200m	3.5M	2.6m	#J	45	30 §	15	500m	50u	6.0Ø	1.0m	120	100nb	31		12p	A	TO5	A
4	2N1353†	200m	3.5M	3.3m	#J	15	10	10	200m	6.0uØ	1.0Ø	10mØ	70 †	b		100	12p	A	TO5	A
5	UPI1353	200m	3.5M	3.3m	#J	15	10	10	200m	6.0uØ	1.0Ø	10m	75 †				12p	A	OV9	A
6	2N1414	200m	3.6M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1.0m	44	620nb	29	5.2	26p		TO5	A§
7	2N382	200m	4.0M	5.0m	#J	50	25 §	20	400m	10uØ	5.0Ø	10mØ	70 Δ	400u	450	6.9	20p	AØ	TO5	A
8	2N414B	200m	4.0MΔ	3.0m	#S	30	16	20	400m	6.0uØ	6.0Ø	1.0m	40 †Δ				14p☑		TO5	A
9	2N414C	200m	4.0MΔ	3.0m	#S	30	16	20	400m	6.0uØ	6.0Ø	1.0m	40 †Δ				14p☑		TO5	A
10	2N1415	200m	4.0M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1.0m	64	550nb	29	5.7	26p		TO5	A§
11	2N1448	200m	4.0M	3.3m	#J	45	25	15	400m	10uØ	6.0	1.0m	65	650nb	25	700m	20p	AΔ	TO5	A
12	2N3427	200m	4.0MΔ	2.7m	#S	45	30 §	30	500m	50u	6.0Ø	1.0m	200 Δ	500n☑b	35 ☑		20p☑		TO5	A
13#	AC182	200m	4.0M§	3.3m	#S	32	18 §	10	150m	15uØ	6.0	1.0m	110 *					A	R134	
14	MA1707	200m	4.0MΔ	2.6m	#J	15	15 §	4.5	500m	15u	1.0Ø	100mØ	150 †Δ	b	37 ☑		20p☑	AΔ	TO5	A
15	2N1175	200m	4.2M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1.0m	80	450nb	28	5.9	26p	AØ	TO5	A§
16	2N1175A	200m	4.2M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1.0m	80	450nb	28	5.9	26p	AØ	TO5	A§
17	2N508A	200m	4.5M	3.3m	#J	30	30 Ø	10	200m	7.0uØ	1.0Ø	20mØ	120 †	400nb	28	7.0	18p	AØ	TO5	A§
18	2N1190	200m	4.5M	2.6m	#J	45	30 §	15	500m	50u	6.0Ø	1.0m	190	100nb	31		12p	A	TO5	A
19	2N1354†	200m	4.5M	3.3m	#J	30	15	20	200m	6.0uØ	1.0Ø	10mØ	70 †	b		90	12p	A	TO5	A
20	2N383	200m	5.0M	5.0m	#J	50	25 §	20	400m	10uØ	5.0Ø	10mØ	90 Δ	380u	550	7.2	20p	AØ	TO5	A
21	2N396A†	200m	5.0M	3.3m	#S	30	20	20	200m	6.0uØ	1.0Ø	10m	30 †Δ				20p☑		TO5	A§
22	JAN2N396A	200m	5.0MΔ	3.3m	#S	30	20	20	200m	100u	1.0Ø	10mØ	30 †Δ				20p☑		TO5	A
23	2N1348	200m	5.0M	3.3m	#	40		25	400m	10u	.30Ø	10mØ	95 †				12p	A	TO5	A
24	2N1356†	200m	5.0MΔ	2.6m	#J	30	20	20	200m	6.0uØ	1.0Ø	10mØ	80 †			1.0	12p	A	TO5	A
25	2N1449	200m	5.0M	3.3m	#J	45	25	15	400m	10uØ	6.0	1.0m	80	770nb	25	1.1	20p	AΔ	TO5	
26♦	2N1942†	200m	5.0MΔ	3.3m	#J	20	10	20	500m	1.5uØ	.20Ø	200mØ	20 †Δ#				20p☑		TO5	A
27	2N2172†	200m	5.0MΔ	3.3m	#S	20	15	10	400m	6.0uØ	1.0Ø	10mØ	30 †Δ						TO5	A
28	2N3428	200m	5.0MΔ	2.7m	#S	45	30 §	30	500m	50u	6.0Ø	1.0m	350 Δ	500n☑b	35 ☑		20p☑		TO5	A
29	MA1704	200m	5.0MΔ	2.6m	#J	25	25 §	25	500m	15u	1.0Ø	100mØ	150 †Δ	b	35 ☑		20p☑	AΔ	TO5	A
30	2N1350	200m	8.0M	3.3m	#J	50		25	400m	20u	.30Ø	10mØ	95 †				12p	A	TO5	A
31	2N1351	200m	8.0M	3.3m	#	40		25	400m	10u	.30Ø	10mØ	65 †				12p	A	TO5	A
32	2N1355†	200m	8.0M	3.3m	#J	30	20	20	200m	6.0uØ	1.0Ø	10mØ	80 †	b		100	12p	A	TO5	A
33	2N1316†	200m	10.MΔ	3.3m	#J	30	15	20	400m	25u	.25Ø	1.0mΔ	100 †				14p	A	TO5	A
34	2N1317†	200m	10.MΔ	3.3m	#J	20	12	15	400m	25u	.25Ø	1.0mΔ	95 †				14p	A	TO5	A
35	2N1318	200m	10MΔ	3.3m	#J	10	6.0	8.0	400m	7.0u	25Ø	1.0mΔ	85 †				14p	Δ	TO5	A
36	2N1349	200m	10.M	3.3m	#J	40		25	400m	10u	.30Ø	10mØ	110 †				12p		TO5	A
37	2N1357†	200m	12M	3.3m	#J	30	15	20	200m	6.0uØ	1.0Ø	10mØ	85 †	b		110	12p	A	TO5	A
38	2N1018	200m	20MΔ	2.8m	#A	30	6.0	20	400m	4.0uØ	.25Ø	1.0mΔ	70 †Δ				20p☑		TO5	A
39	2N1204A	200m	220M§Δ	2.6m	#S	20	15	4.0	500m	7.0uØ	.50Ø	200mØ	25 †Δ				8.0p☑		TO39	AØ
40	2N1204†	200m	320M§	2.7m	#S	20	15	4.0	500m	7.0uØ	1.5Ø	400mØ	35 †#				7.0p	AD	TO39	AØ
41	2N2541†	215m	10M†Δ	2.9m	#S	30	14	12	1.0	20uØ	.35Ø	50mØ	60 †Δ				20p☑		TO5	AØ
42#	OC74	220m	1.0M	3.3m	#J	20	20	5.0	300m	20uØ	6.0Ø	5.0mØ	40 †Δ				40p	A	TO1	A
43#	OC83N	220m	1.0M§	3.3m	#J	32	32	3.0	500m	10uØ	1.0Ø	50mØ	50 Δ				40p	A	TO1	A
44#	OC84N	220m	1.0M§	3.3m	#J	32	32	10	1.0	10uØ	1.0Ø	50mØ	60 Δ				40p	A	TO1	A
45#	AC138	220m	1.5M	3.3m	#J	32	32 Ø	10	1.2	14uØ	6.0Ø	5.0mØ	100					A	TO1	
46#	AC139	220m	1.5M	3.3m	#J	32	32 Ø	10	1.2	14uØ		400m	80 †					A	TO1	
47#	AC142	220m	1.5M	3.3m	#J	32	32 Ø	10	1.2	14uØ		400m	80 †					A	TO1	
48#	NKT281	220m	1.5M§	3.4m	#J	32	16	10	1.0	10uØ	0.0Ø	50mØ	55 †Δ				100p		TO1	A
49	2N524	225m		3.0m	#J	45	30 §	15	500m	10uØ	1.0Ø	100mØ	23 †Δ				40p☑		TO5	A§
50	2N525	225m		3.0m	#J	45	30 §	15	500m	10uØ	1.0Ø	100mØ	30 †Δ				40p☑		TO5	A§
51	2N526	225m		3.0m	#J	45	30 §	15	500m	10uØ	1.0Ø	100mØ	47 †Δ				40p☑		TO5	A§
52	2N527	225m		3.0m	#J	45	30 §	15	500m	10uØ	1.0Ø	100mØ	65 †Δ				40p☑		TO5	A§
53#	AF200U	225m		2.2m	#J	25	25 Ø	.30	10m	10uØ	12Ø	1.0mØ	50 †					ME		
54#	AF201U	225m		2.2m	#J	25	25 Ø	.30	10m	10u	12Ø	1.0mØ	50 †					ME		
55#	AF202L	225m		2.2m	#J	32	32 Ø	.30	30m	10u	12Ø	1.0mØ	50 †					ME		
56	GT81HS	225m		3.0m	#S	25		10		250n	5.0Ø	1.0m	120	500nb	40	8.0	35p	A		
57#	2SB178	225m	.70M		ØJ	20		6.0	300m	20uØ	1.0Ø	300m	65 †					A	R43	
58#	2SB178A	225m	700k	4.5m	ØJ	40			300m	20uØ	1.0Ø	300m	65 †					A	R43	
59	JAN2N526	225m	1.0MΔ	3.0m	#S	45	30 §	15	500m	10uØ	5.0	1.0m	44 Δ	1.0u☑b	35 ☑	12 ☑	40p☑		TO5	A§
60#	2SB304	225m	1.0M	5.0m	ØJ	30	20	10	500m	15u	1.0Ø	50mØ	70 †					AΔ	TO5	
61#	2SB304A	225m	1.0M	5.0m	ØJ	45	30 §	15	500m	10uØ	1.0Ø	50mØ	70 †					AΔ	TO5	
62#	2SB376	225m	1.0M	4.5m	ØJ	20		6.0	300m	20uØ	.50	300m	50 †					A	R43	
63#	2SB427	225m	1.0M	5.0m	ØJ	45	30 §	15	500m	15u	1.0Ø	100mØ	60 †					AΔ	TO5	
64#	2SB428	225m	1.0M	5.0m	ØJ	45	30 §	15	500m	15u	1.0Ø	100mØ	90 †					AΔ	TO5	
65#	SFT221	225m	1.3M	3.7m	#J	30	24 §	15	250m	15u	1.0Ø	100mØ	30 †					A	TO5	A§
66#	SFT251	225m	1.3M	3.7m	#J	30	24 §	15	150m	15u	6.0Ø	1.0mØ	30	20u	900	3.0	25p	A	TO5	
67	2N2431	225m	1.5M§	3.4m	#J	32	32	10	1	10uØ	0.0	40m	90 †				100p☑	A	TO1	A
68#	SFT241	225m	1.6M	3.7m	#J	45	35 §	25	500m	15u	1.0Ø	100mØ	45 †	25u	1.2k	4.0	25p	A	TO5	
69	2N319	225m	2.0M	3.7m	#J		20 §		200m#	16uØ	1.0Ø	20mØ	34 †				25p	A	TO5	A§
70#	ASY81	225m	2.0M	3.7m	#J	60	35 §	25	500m	15u	1.0Ø	100mØ	60 †	32u	1.6k	4.5	25p	A	TO5	
71	HEP253-RT	225m♦	2.0M§		#J	20	20 Ø$	2.5	400m$	16u$	20		40 †						TO5	A
72	HEP254-RT	225m♦	2.0M§		#J	20	20 Ø$	2.5	400m$	16u$	20		70 †						TO5	A
73#	SFT222	225m	2.0M	3.7m	#J	30	24 §	15	250m	15u	1.0Ø	100mØ	50 †					A	TO5	A§
74#	SFT243	225m	2.0M	3.7m	#J	60	35 §	25	500m	15u	1.0Ø	100mØ	60 †	32u	1.6k	4.5	25p	A	TO5	A§
75#	SFT252	225m	2.0M	3.7m	#J	30	24 §	15	150m	15u	6.0Ø	1.0mØ	50	30u	1.5k	4.2	25p	A	TO5	
76	2N320	225m	2.5M	3.7m	#J		20 §		200m#	16uØ	1.0Ø	20mØ	50 †				25p	A	TO5	A§
77#	SFT242	225m	2.5M	3.7m	#J	45	30 §	25	500m	15u	1.0Ø	100mØ	70 †	35u	2.0k	5.0	25p	A	TO5	
78	2N321	225m	3.0M	3.7m	#J		20 §		200m#	16uØ	1.0Ø	20mØ	80 †				25p	A	TO5	A§
79	2N1924	225m	3.0M	3.6m	#J	60	40 §	25	500m	10uØ	5.0Ø	1.0m	44	30u	1.4k	4.5	18p	A	TO5	A§
80#	AC184	225m	3.0M§	3.0m	#S	32	24 §	10	500m	15uØ	1.0Ø	200mØ	110 †*					A	R134	
81#	SFT253	225m	3.0M	3.7m	#J	30	20 §	15	150m	15u	6.0Ø	1.0mØ	80	45u	2.5k	5.5	25p	A	TO5	
82	2N1925	225m	3.5M	3.6m	#J	60	40 §	25	500m	10uØ	5.0Ø	1.0m	64	35u	2.0k	6.0	18p	A	TO5	A§
83	2N1926	225m	4.0M	3.6m	#J	60	40 §	25	500m	10uØ	5.0Ø	1.0m	80	40u	2.5k	7.0	18p	A	TO5	A§
84#	SFT223	225m	4.0M	3.7m	#J	30	20 §	15	250m	15u	1.0Ø	100mØ	80 †					A	TO5	A§
85	2N524A	225m	5.0M☑	3.0m	#J	45	30 §	15	500m	10uØ	5.0	1.0m	41 ☑	1.0u☑b	36	10	40p☑	A	TO5	A§
86	2N525A	225m	5.5M☑	3.0m	#J	45	30 §	15	500m	10uØ	5.0	1.0m	64 ☑	1.0u☑b	35	11	40p☑	A	TO5	A§
87	2N526A	225m	6.5M☑	3.0m	#J	45	30 §	15	500m	10uØ	5.0	1.0m	88 ☑	1.0u☑b	33	12	40p☑	A	TO5	A§
88	2N527A	225m	7.0M☑	3.0m	#J	45	30 §	15	500m	10uØ	5.0	1.0m	120 ☑	900n☑b	31	14	40p☑	A	TO5	A§
89	2N1195	225m	750M	3.0m	#J	30		1.0	40m	5.0uØ								D△	TO29	A
90	JAN2N537	225mØ	1.0G§Δ	3.0m	#J	30		1.0	100u	5.0uØ	10Ø	10m	10 Δ	♦			2.8p☑		TO29	A
91	2N1614	240m		4.0m	#J	65	40 §	12	300m	25u	1.0Ø	20mØ	18 †Δ	1.5u☑b	38 ☑	13 ☑	60p☑	A	R32	A§
92	2N2173	240m		3.2m	#S	25	15	3.0	750m	10uØ	1.0Ø	200mØ	30 †Δ				6p☑		TO39	AØ
93#	2SB401	240m	.30M§		#J	40	32	10	300m	10uØ	.50Ø	300mØ	60 †					AΔ	TO5	
94#	2SB402	240m	.30M§		#J	60	60	10	300m	10uØ	.50Ø	300mØ	60 †					AΔ	TO5	
95	2N1057	240m	500kΔ	4.0m	#J	45	45 #	5.0	300m	16u	1.0Ø	20mØ	34 †Δ				60p☑	A	R32	AØ
96#	2SB403	240m	.70M§		#J	40	32	20	300m	10uØ	.50Ø	300mØ	50 †					AΔ	TO5	
97	2N586	250m		4.2m	#A	45	25	12	250m	16u	.50	250mØ	55 †					AΔ	R27	
98	JAN2N1174	250m		3.3m	#S	35	20	35	200m	10uØ	10Ø	500u	50 Δ				2.5p☑		TO29	A
99	2N1273	250m		3.3m	#S	15	15 §	10	200m	14uØ	5.0Ø	1.0m	20 Δ						TO5	A
100	2N1274	250m		3.3m	#S	25	25 §	10	200m	14uØ	5.0Ø	1.0m	20 Δ						TO5	A
101	2N1370	250m		3.3m	#S	25	25 §	10	200m	14uØ	5.0Ø	1.0m	40 Δ						TO5	A
102	2N1371	250m		3.3m	#S	45	45 §	10	200m	14uØ	5.0Ø	1.0m	40 Δ						TO5	A
103	2N1372	250m		3.3m	#S	25	25 §	15	200m	7.0uØ	5.0Ø	1.0m	20 Δ						TO5	A
104	2N1373	250m		3.3m	#S	45	45 §	25	200m	7.0uØ	5.0Ø	1.0m	20 Δ						TO5	A
105	2N1374	250m		3.3m	#S	25	25 §	15	200m	7.0uØ	5.0Ø	1.0m	40 Δ						TO5	A
106	2N1375	250m		3.3m	#S	45	45 §	25	200m	7.0uØ	5.0Ø	1.0m	40 Δ						TO5	A
107	2N1376	250m		3.3m	#S	25	25 §	15	200m	7.0uØ	5.0Ø	1.0m	60 Δ						TO5	A
108	2N1377	250m		3.3m	#S	45	45 §	25	200m	7.0uØ	5.0Ø	1.0m	60 Δ						TO5	A
109	2N1378	250m		3.3m	#S	12	12 §	7.0	200m	7.0uØ	5.0Ø	1.0m	75 Δ						TO5	A
110	2N1379	250m		3.3m	#S	25	25 §	15	200m	7.0uØ	5.0Ø	1.0m	75 Δ						TO5	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	COMMON EMITTER hfe	hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #/ Y200 s/a TO200 Ser.	LEAD CODE
1	2N1380	250m		3.3m	#S	12	12 §	7.0	200m	14uØ	5.0Ø	1.0m	20 Δ						TO5	A
2	2N1381	250m		3.3m	#S	25	25 §	15	200m	14uØ	5.0Ø	1.0m	20 Δ						TO5	A
3	2N1382	250m		3.3m	#S	25	25 §	15	200m	14uØ	5.0Ø	1.0m	40 Δ						TO5	A
4	2N1383	250m		3.3m	#S	25	25 §	15	200m	14uØ	5.0Ø	1.0m	20 Δ						TO5	A
5	2N1561	250m		3.3m	#J	25	15	3.0	250m	10uØ							10pØ		R70	AØ
6	2N1562	250m		3.3m	#J	25	15	3.0	250m	10uØ							10pØ		R70	AØ
7	2N2375	250m		3.3m	#S	35	35 Ø	35	500m	5.0u	12Ø	2.0m	35 Δ				20pØ		TO5	A
8	2N2271	250m	10k†Δ	3.3m	#S	20	15 §	10	500m	50u	1.5Ø	35mØ	50 †Δ						TO5	A§
9	2N226	250m	400k	3.3m	ØJ	30			150m	25u	.60Ø	100mØ	60 †	3.0ub	7.5		140p	A	TO25	A
10	2N227	250m	400k	Pair of 2N226 with hFE matched to within 20 percent.															TO25	A
11	JAN2N461	250m	500kΔ	3.3m	#J	45	35 §*	10	400m	10u	6.0	1.0m	31 Δ	1.5uØb	40 Ø		20pØ		R81	A§
12	ET670	250m	.50MΔ	4.2m	#J	40		5.0	1.5 #	50uØ	1.5Ø	1 Ø	40 †Δ						R81a	A
13	2N224	250m	510k	3.3m	ØJ	25			150m	25u	.60Ø	100mØ	90 †	2.0ub	7.5		125p	A	TO25	A
14	2N225	250m	510k	Pair of 2N224 with hFE matched to within 20 percent.															TO25	A
15	2N223	250m	600k	5.0m	*J		18		150m	20u	4.5Ø	2.0mØ	110	100nb	15	2.5	90p	A	TO25	A
16	2N1416	250m	600k	Pair of 2N223 with hFE matched to within 20 percent.															TO25	A
17#	2SB34	250m	.80M	4.2m	#J	20		2.5	150m	14uØ	6.0Ø	1.0m	85	22.u	2.4k	4.9		A	TO7	
18#	2SB38	250m	.80M	4.2m	#J	30	20 §	12	150m	16u	6.0Ø	1.0m	85 *	22.u	2.4k	4.9	45p	A	TO7	
19#	2SB199	250m	.80M	4.2m	#J	12		2.5	300m	14u	3.0Ø	1.0m	90	33u	2.6k	6.1		A	TO7	
20	2N398B	250m	1.0M	3.3m	#A	105	105 Ø	75	200m	6.0uØ	.25Ø	5.0mØ	20 †Δ					AΔ	TO5	A
21#	2SB189	250m	1.0M	5.0m	ØJ	25		12	250m	14uØ	1.0Ø	100m	70 †				35p	A	X5	
22	2SB476	250m	1.2M§	3.8m	#J	20	10	6.0	2	500u	0.0	2	75 †					A	TO39	
23▼#	2SB533	250m	1.2M§	4.2m	#J	20	10	12	2.0	200u	0.0	2.0	75 †Δ					A	TO39	A
24	2N597	250m	3.0MΔ	3.3m	#J	45	40 Ø	45	500m	25u	1.0Ø	100mØ	40 †Δ				20pØ	AΔ	TO5	AØ
25	2N1997†	250m	3.0MΔ	3.3m	#S	45	15	45	500m	5.0uØ	1.0Ø	100mØ	40 †Δ				20pØ		TO5	A
26	2N2930†	250m	4.0M§Δ	3.3m	#S	30	12	20	500m	7.0uØ	.50Ø	10mØ	60 †Δ				20pØ		TO5	A
27	2N598†	250m	5.6M§Δ	3.3m	#J	35	35 Ø	30	500m	25u	1.0Ø	100mØ	70 †Δ				20pØ		TO5	AØ
28	JAN2N598†	250m	5.6M§Δ	3.3m	#S	35	35 Ø	30		25u	1.0Ø	200mØ	50 †Δ				20pØ		TO5	AØ
29	2N1998†	250m	5.6M§Δ	3.3m	#S	35	15	30	500m	5.0uØ	1.0Ø	100mØ	70 †Δ				20pØ		TO5	A
30	2N1478	250m	8.0M	3.3m	#J	30	20	20	500m	5.0uØ	1.0Ø	100mØ	70 †				15p	AΔ	TO9	AØ
31	2N599†	250m	10M§Δ	3.3m	#J	30	20 Ø	20	500m	25u	1.0Ø	200mØ	75 †Δ				20pØ	A	TO5	AØ
32	JAN2N599†	250m	10M§Δ	3.3m	#S	30	20 Ø	20		25u	1.0Ø	200mØ	75 †Δ				20pØ		TO5	Ø
33	2N1999†	250m	10M§Δ	3.3m	#S	30	15	20	500m	5.0uØ	1.0Ø	100mØ	100 †Δ				20pØ		TO5	A
34	2N2374	250m	15.M	3.0m	#	35	35 Ø	35	500m	100u	12	2.0mØ	140	90u	3.0k	8.7	14p	A	TO5	A
35	2N1495†	250m	150M§Δ	3.3m	#S	40	25	4.0	500m	7.0uØ	.50Ø	200mØ	25 †Δ				6.5pØ		TO9	AØ
36	JAN2N1195	250m	400M§Δ	3.3m	#S	30	20	1.0	40m	5.0uØ	10	10m	24 Δ	20uØb	10 Ø	30 Ø	2.0pØ		TO5	A
37	2N2096†	250m	400M§	3.3m	#S	25		4.0	500m	12uØ	1.5Ø	400mØ	40 †				15p	D	TO31	A
38	2N2097†	250m	400M§	3.3m	#S	40		4.0	500m	12uØ	1.0Ø	200mØ	70 †				15p	D	TO31	A
39	2N2099	250m	400M§	3.3m	#S	25		4.0	500m	12uØ	1.5Ø	400mØ	40 †				15p	D	TO9	A
40	2N2100†	250m	400M§	3.3m	#S	40		4.0	500m	12uØ	1.0Ø	200mØ	70 †				15p	D	TO9	A
41	MM380	250m	600M§	3.3m	#J	25	10	.30		10uØ	10Ø	3.0mØ	50 †				1.4p§		TO18	AØ
42#	ACY41†	260m	600k§	4.0m	#J	32	18	12	500m	100u	6.0Ø	1.0mØ	90					AØ	TO5	§
43#	ACY40†	260m	800k§	4.0m	#J	32	18	12	500m	100u	6.0Ø	1.0mØ	45					AØ	TO5	§
44#	ACY17†	260m	1.0M§	4.0m	#J	70	32	12	500m	100u	6.0Ø	1.0mØ	85					AØ	TO5	§
45#	ACY18†	260m	1.0M§	4.0m	#J	50	30	12	500m	100u	6.0Ø	1.0mØ	60					AØ	TO5	§
46#	ACY20	260m	1.0M§	4.0m	#J	40	20	12	500m	100u	6.0Ø	1.0mØ	85					AØΔ	TO5	§
47#	ACY22†	260m	1.0M§	4.0m	#J	20	15	12	500m	100u	6.0Ø	1.0mØ	75					AØ	TO5	§
48#	ACY39†	260m	1.0M§	4.0m	#J	110	40	25	500m	100u	6.0Ø	1.0mØ	85					AØ	TO5	§
49#	ACY44	260m	1.0M§	4.0m	#J	50	30	12	500m	100u	6.0Ø	1.0mØ	60					AØΔ	TO5	§
50#	ACY19†	260m	1.3M§	4.0m	#J	50	30	12	500m	100u	6.0Ø	1.0mØ	140					AØ	TO5	§
51#	ACY21	260m	1.3M§	4.0m	#J	40	20	12	500m	100u	6.0Ø	1.0mØ	140					AØΔ	TO5	§
52#	AC142K	260m	1.5M	4.0m	#J	32	32 Ø	10	1.2	14uØ		400m	80 †					A	TO1	
53	2N2207	260m	140MΔ	5.2m	ØS	70	50	.50	50m	10uØ							2.3p†Ø		TO7	H
54	2N2706	280m	2.5M§	3.3m	#	32	32	10	200m	10u	0.0	50m	115 †	155u	3.9k	11.		ADØ	TO1	A
55#	OC122	295m	1.3M§	4.5m	#J	32	32	12	500m	500u	2.0Ø	100mØ	180 †					AΔ	TO7	H
56#	OC123	295m	1.5M§	4.5m	#J	50	50	15	500m	500uØ	2.0Ø	100mØ	160 †					AΔ	TO7	H
57	2N672†	300m		5.0m	#J	25	25 Ø	25	2.0	25uØ								A	R2	AØ
58	2N1008	300mØ		2.7m	#S	20	20	15	300m	10uØ	5.0Ø	10mØ	40 Δ		1.0kØ				TO5	A
59	2N1008A	300mØ		2.7m	#S	40	40	15	300m	10uØ	5.0Ø	10mØ	40 Δ		1.0kØ				TO5	A
60	2N1008B	300mØ		2.7m	#S	60	60	15	300m	15uØ	5.0Ø	10mØ	40 Δ		1.0kØ				TO5	A
61	2N1176	300mØ		5.0mØ	#S	10	10 §	10	300m	25u	5.0Ø	10mØ	20 Δ		2.0kØ				TO5	A
62	2N1176A	300m			#J	40	40		300m		5.0Ø	10mØ	20 Δ					A	TO5	A
63	2N1176B	300m			#J	60	60		300m		5.0Ø	10mØ	20 Δ					A	TO5	A
64	2N674	300m	400kΔ	5.0m	#J	75	75	70	2.0	100uØ	1.5Ø	1.0 Ø	40 Δ					AΔ	R2	AØ
65	2N1124	300m	400kΔ	5.0m	#J	40	35 Ø	40	250m	75u	6.0	10m	40 Δ	5.0 Øb	7.0	5.5		AΔ	R2	AØ
66	2N670	300m	700k		#J	40	40	40	2.0	25uØ	1.5Ø	1.0 Ø	100					A	R2	AØ
67#	NKT223	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	50 Δ				60pØ		TO5	AØ
68#	NKT224	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	30 Δ				60pØ		TO5	AØ
69#	NKT225	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	15 Δ				60pØ		TO5	AØ
70#	NKT229	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	85 Δ				60pØ		TO5	AØ
71	2N1125	300m	1.0MΔ	5.0m	#J	40	40 Ø	40	250m	75u	1.0Ø	500mØ	50 Δ					AΔ	R2	AØ
72#	AC180	300m	1.0M§Δ	4.0m	#S	32	24 §	10	1.0	20uØ	1.0	600mØ	110 †#*					A*	R134	
73#	NKT237	300m	1.0M	5.0m	#J	70	32	12	1.0	100u	0.0	300m	50 †Δ				40p	A	TO5	
74#	NKT238	300m	1.0M	5.0m	#J	50	30	12	1.0	100u	0.0	300m	40 †Δ				40p	A	TO5	
75#	NKT239	300m	1.0M	5.0m	#J	50	30	12	1.0	100u	0.0	300m	80 †Δ				40p	A	TO5	
76#	NKT240	300m	1.0M	5.0m	#J	40	20	12	1.0	100u	0.0	50m	50 †Δ				40p	A	TO5	
77#	NKT241	300m	1.0M	5.0m	#J	40	20	12	1.0	100u	0.0	50m	90 †Δ				40p	A	TO5	
78#	NKT242	300m	1.0M	5.0m	#J	20	15	12	1.0	100u	0.0	300m	30 †Δ				40p	A	TO5	
79#	NKT243	300m	1.0M	5.0m	#J	110	40	12	1.0	100u	0.0	300m	50 †Δ				40p	A	TO5	A
80#	NKT244	300m	1.0M	5.0m	#J	32	18	12	1.0	100u	0.0	300m	30 †Δ				40p	A	TO5	A
81#	NKT245	300m	1.0M	5.0m	#J	32	18	12	1.0	100u	0.0	300m	50 †Δ				40p	A	TO5	A
82#	2SB461	300m	1.2M		ØJ	35	30 §	12	400m	20uØ	1.0Ø	400mØ	80 †					A	TO5	A
83#	ASY48IV†	300m	1.2M§	3.3m	$J	64	45	16	300m	18u	.50Ø	100mØ	45 †				25p	A	TO1	B
84#	ASY48V†	300m	1.2M§	3.3m	$J	64	45	16	300m	18u	.50Ø	100mØ	75 †				25p	A	TO1	B
85#	ASY48VI†	300m	1.2M§	3.3m	$J	64	45	16	300m	18u	.50Ø	100mØ	110 †				25p	A	TO1	B
86	40396/P	300m#Ø	1.5M	10m	#J	18	18 §	2.5	500m	14uØ	1.0Ø	50mØ	50 †Δ						TO1	
87#	AC121IV	300m	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	45 †				25p	A	TO1	B
88#	AC121V	300m	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	75 †				25p	A	TO1	B
89#	AC121VI	300m	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	110 †				25p	A	TO1	B
90#	AC121VII	300m	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	190 †				25p	A	TO1	B
91#	AC151IV	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	45	100u	750	9.0	27p$	A	TO1	B
92#	AC151rIV	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	45	100u	750	9.0	27p$	AØ	TO1	B
93#	AC151rV	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	75	140u	1.2k	13	27p$	AØ	TO1	B
94#	AC151rVI	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	110	160u	1.8k	16	27p$	AØ	TO1	B
95#	AC151V	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	75	140u	1.2k	13	27p$	A	TO1	B
96#	AC151VI	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	110	100u	1.8k	16	27p$	A	TO1	B
97#	AC151VII	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	170	160u	2.7k	19	27p$	A	TO1	B
98#	AC152IV	300m	1.5M§	3.3m	#J	32	24	10	500m	25u	.50Ø	100mØ	45 †				25p	A	TO1	B
99#	AC152V	300m	1.5M§	3.3m	#J	32	24	10	500m	25u	.50Ø	100mØ	75 †				25p	A	TO1	B
100#	AC152VI	300m	1.5M§	3.3m	#J	32	24	10	500m	25u	.50Ø	100mØ	110 †				25p	A	TO1	B
101#	AC153KV	300m*	1.5M§	22mØ	#J	32	18	10	2.0	200u		300m	75 †				100p	A		A
102#	AC153KVI	300m*	1.5M§	22mØ	#J	32	18	10	2.0	200u		300m	110 †				100p	A		A
103#	AC153KVII	300m*	1.5M§	22mØ	#J	32	18	10	2.0	200u		300m	190 †				100p	A		A
104#	AC153V	300m	1.5M§	3.3m	#J	32	18	10	2.0	200u	0	300mØ	75 †				100p	A	TO1	B
105#	AC153VI	300m	1.5M§	3.3m	#J	32	18	10	2.0	200u	0	300mØ	110 †				100p	A	TO1	B
106#	AC153VII	300m	1.5M§	3.3m	#J	32	18	10	2.0	200u	0	300mØ	190 †				100p	A	TO1	B
107#	ACY23V	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	100 Ø	40u	3.0k	7.0	27p$	A	TO1	A
108#	ACY23VI	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	150 Ø	40u	3.0k	7.0	27p$	A	TO1	A
109#	ACY32V	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	100 Ø	40u	3.0k	7.0	27p$	AØ	TO1	A
110#	ACY32VI	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	150 Ø	40u	3.0k	7.0	27p$	AØ	TO1	A

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	ACY33VI	300m	1.5M§	3.3m	#J	32	32 *	10	1.0	50u	0	300mØ	110 †				100p	A	TO1 A
2#	ACY33VII	300m	1.5M§	3.3m	#J	32	32 *	10	1.0	50u	0	300mØ	190 †				100p	A	TO1 A
3#	ACY33VIII	300m	1.5M§	3.3m	#J	32	32 *	10	1.0	50u	0	300mØ	260 †				100p	A	TO1 A
4#	ASY70IV†	300m	1.5M§	3.3m	§J	32	30	16	300m	18u	.50Ø	100mØ	45 †				25p	A	TO1 A
5#	ASY70V†	300m	1.5M§	3.3m	§J	32	30	16	300m	18u	.50Ø	100mØ	75 †				25p	A	TO1 A
6#	ASY70VI†	300m	1.5M§	3.3m	§J	32	30	16	300m	18u	.50Ø	100mØ	110 †				25p	A	TO1 A
7	2N2000†	300m	2.0M§Δ	4.0m	#S	50	15	20	1.0	10uØ	.30Ø	100mØ	50 †Δ				35pØ		TO5 A
8	GT5151	300m	2.5M	4.0m		40	10	15		25u	.50Ø	1.0	40 †Δ				25p	AΔ	TO5 AØ
9#	NKT221	300m	3.5M	5.0m	#J	30	30	10	500m	40u	0.0	500mØ	30 †Δ	1.0u	65	12 Ø	40p	A	TO5 A
10#	NKT222	300m	3.5M	5.0m	#J	30	30	10	125m	40u	0.0	25mØ	50 †Δ	1.0u	65	12 Ø	40p	A	TO5 A
11#	NKT226	300m	3.5M	5.0m	#J	30	30	10	125m	40u	4.5Ø	1.0mØ	50 Δ	1.0u	65	12 Ø	40p	AØ	TO5 A
12#	NKT227	300m	3.5M	5.0m	#J	60	60	10	125m	40u	0.0	25mØ	50 †Δ	1.0u	65	12 Ø	40p	A	TO5 A
13#	NKT228	300m	3.5M	5.0m	#J	30	30	10	500m	40u	0.0	500mØ	30 †Δ	1.0u	65	12 Ø	40p	A	TO5 A
14	2N2001	300m	6.0M§Δ	4.0m	#S	30	15	20	1.0	6.0uØ	.30Ø	100mØ	100 †Δ				35pØ		TO5 A
15	2N2648†	300m	10M§Δ	4.0m	#C	30	25 #	30	1.0	100uØ♦	.50Ø	1.0 Ø	80 †Δ						TO5 AØ
16	GT5153	300m	10M	4.0m		25	6.0	15		25u	.50Ø	1.0	80 †Δ				25p	AΔ	TO5 AØ
17	2N331	300m	100M	3.3mØ	A	30		12	200m	16u	6.0Ø	1.0m	50	24u	1.5k	4.7	36p	A	TO9 A
18	2N3883†	300m	100M§Δ	4.0m	#S	25	15	3.0	250m	100u§	1.0Ø	200mØ	30 †Δ				8pØ		TO5 AØ
19	2N705†	300mØ	300M	4.0m	#J	15		3.5	50m	3.0uØ	.30Ø	10mØ	40 †					DME	TO18 AØ
20	2N710†	300mØ	300M	4.0m	#J	15		1.0	50m	3.0uØ	.50Ø	10mØ	25 †Δ					DME	TO18 AØ
21	2N2381†	300m	300M§Δ	4.0m	#J	30	15	4.0	500m	7.0uØ	.50Ø	200mØ	40 †				6.0p		TO39 AØ
22	2N2382†	300m	300M§Δ	4.0m	#J	45	20	4.0	500m	7.0uØ	.50Ø	200mØ	40 †				6.0p		TO39 AØ
23	2N2630†	300m	300M§Δ	4.0m	#S	18	10	4.0	100m	5.0uØ	.75Ø	100mØ	25 †Δ				4.0pØ		TO18 AØ
24	JAN2N1142	300m	320M	4.0m	#J	30		.70	100m	100u	10Ø	10mØ	10 †Δ	100uØb	7.5 Ø		4.0pØ		TO5 A
25	2N1142A	300m	400M§Δ	10m	#S	30	25 Ø	.70	100m	4.0uØ	10Ø	10mØ	15 †Δ						TO5 AØ
26	2N1143A	300m	400M§Δ	10m	#S	30	25 Ø	.50	100m	4.0uØ	10Ø	10mØ	15 †Δ						TO5 AØ
27	2N1143	300m	480M	10m	#J	25		.50	100m	100u	10Ø	10mØ	49	40ub	3.6	20	1.5p	DØ	TO5 AØ
28	2N1141A	300m	500M§Δ	10m	#S	35	25 Ø	1.0	100m	4.0uØ	10Ø	10mØ	15 †Δ						TO5 AØ
29	2N1142	300m	600M	10m	#J	30		.70	100m	100u	10Ø	10mØ	49	40ub	3.6	20	1.4p	DØ	TO5 AØ
30	2N3995	300m	600M§Δ	4.0m	♦S	20	12	.50	100m	3.0uØ	6.0Ø	25mØ	150 Δ				4.0pØ	Ø	TO39 AØ
31	2N1141	300m	750M	10m	#J	35		1.0	100m	100u	10Ø	10mØ	49	40ub	3.6	20	1.2p	MEØ	TO5 AØ
32	HEP2-RT	300m♦	750M§		#J	22	22 Ø$	.65	100m$	12u$	10		75 †						TO5 A
33	2N249	350m			ØS	25			200m	25u	.50Ø	100m	45					A	R156 FØ
34	2N1692	350m		4.6m	#J	25	15	3.0	250m	10uØ							10pØ		MT30 AØ
35	2N1693	350m		4.8m	#J	25	25 Ø	2.0	500m	10uØ					35 Ø		10pØ		MT30 AØ
36#	AF118	375m	125M§Δ	4.0mØ	J	70	70		30m	6.0u	2.0	10m	180 †				2.3pØ	AD	TO7
37	JAN2N1039	400m	224k§Δ	5.3m	#S	60	40	20		70uØ	1.5Ø	500mØ	2.0 Δ		60 Ø				R81c AØ
38	JAN2N1041	400m	224k§Δ	5.3m	#S	100	60	20		70uØ	1.5Ø	500mØ	2.0 Δ		60 Ø				R81c AØ
39	2N1494A	400m	220M§Δ	5.3m	#S	20	15	4.0	500m	7.0uØ	.50Ø	200mØ	25 †Δ				8pØ		TO31 AØ
40	2N1494†	400m	320M§	5.3m	#S	20	15	4.0	500m	7.0uØ	1.5Ø	400mØ	35 †#				7.0p	AD	TO31 AØ
41#	SFT234	450m	.30M	7.7m	#J	80	50	20	1	750u	.50Ø	1 Ø	40 †					A	TO11
42#	SFT234A	450m	.30M	7.7m	#J	80	60	20	1	125uØ	.50Ø	50mØ	30 †Δ						TO11
43#	AC132	500m*	2.0m§	3.3m	#J	32	32 §	10	200m	10uØ	0.0	50m	115 †				40p$	A	TO1 F
44#	2SB347	500mØ	17k†	3.3m	ØJ	32		10	100m	10uØ	5.0	2.0m	125					A	TO1
45#	2SB348	500m	17k†		ØJ	32		10	100m	10uØ	5.0	2.0m	180					AØ	TO1
46#	ASY76-RT	500m	500k§Δ	13m	#J	40	20	10	1.0 #	10uØ	1.0Ø	600mØ	20 †				60p$Ø	AΔ	TO5 A
47#	ASY77-RT	500m	500k§Δ	13m	#J	60	20	10	1.0 #	10uØ	1.0Ø	600mØ	20 †				60p$Ø	AΔ	TO5 A§
48#	ASY80-RT	500m	700k§Δ	13m	#J	40	32	20	1.0 #	10uØ	1.0Ø	600mØ	40 †				60p$Ø	AΔ	TO5 A§
49#	SFT232	500m	700k§	6.6m	#S	40	30	20	3.0	50uØ	.50Ø	50mØ	110 †						TO11 Ø
50#	SFT233	500m	700k§	6.6m	#S	60	40	20	3.0	50uØ	.50Ø	50mØ	110 †						TO11 Ø
51#	AC132-01	500m	2.0M§	5.2m	#J	32	12	10	200m	10uØ	0.0	200mØ	70 †				40p$	A*	X9c A
52	2N1496†	500m	150M§Δ	6.7m	#J	40	25	4.0	500m	7.0uØ	.50Ø	200mØ	25 †Δ				6.5pØ		TO31 AØ
53#	OC79	550m	16k†	4.5m	ØJ	26	13		300m		6.0Ø	5.0mØ	50 †					A	R8
54#	OC80	550m	2.0M		ØJ	32	32 Ø	20	600m	10u	6.0	50m	85					AΔ	R8
55#	AFY18C	560m	600M§	4.0m	#J	30	15	.70	100m	10uØ	10Ø	10mØ	120 Ø				1.8p	EMØ	TO39 A
56#	AFY18D	560m	600M§	4.0m	#J	30	15	.70	100m	10uØ	10Ø	10mØ	300 Ø				1.8p	EMØ	TO39 A
57#	AFY18E	560m	600M§	4.0m	#J	30	15	.70	100m	10uØ	10Ø	10mØ	600 Ø				1.8p	EMØ	TO39 A
58#	2SB496	600m	2.0M			25	18 §	2.5	250	14m	1.5Ø	50mØ	60 †Δ					A	TO1
59#	SFT367	650m	4.0M§			32			1		1.0	300m	250 †Ø					A	R111 A
60#	2SB405	720mØ	700k§		#J	25	25 §	6.0	1.0	50u	1.0Ø	200mØ	100 †					A	TO1
61	2N1123	750mØ	5.0M	10m	#J	45	40 Ø	45	500m	25u	1.0Ø	100mØ	70 †				15p	AΔ	MT60 A
62	JAN2N600†	750m	5.6M§Δ	10m	#S	35	35 Ø	30		25u	1.0Ø	200mØ	50 †Δ				20pØ		MT60
63	2N600	750mØ	10.M	10m	#J	35	35 Ø	30	500m	25u	1.0Ø	100mØ	125 †				15p	AΔ	MT60
64	JAN2N5415†	750m	15M§Δ	4.2m	§J	200	200	6.0	1.0	500u	10Ø	5.0mØ	25 Δ				15pØ		TO5 AØ
65	JAN2N5416†	750m	15M§Δ	4.2m	§J	350	300	6.0	1.0	500u	10Ø	5.0mØ	25 Δ				15pØ		TO5 AØ
66	2N601†	750mØ	18M	10m	#J	30	20 Ø	20	500m	25u	5.0Ø	3.0m	5.0				18p	A	MT60 AØ
67	2N1385	750mØ	250M§Δ	10m	#S	25	10	4.0	100m	10uØ	10Ø	10mØ	10 †Δ				2.5pØ		R100 AØ
68	2N2929	750mØ	700M§Δ	10mØ	#S	25	10	.75	100m	5.0uØ	10Ø	10mØ	10 Δ				3pØ		TO5 AØ
69#	AC188	800m	1.5M§	13m	#J	25	15	10	1	200u	1.0Ø	300mØ	200 †				90p$	A	R51a A
70#	AC188/01	800m	1.5M§	6.3u	#J	25	15	10	1.0	15uØ	1.0Ø	50mØ	165 †				110p$	A	X9c A
71#	AC188K	800m	1.5M§	13m	#J	25	15	10	1	200u									X9a
72	2N370	800m	30M		ØA	24		.50	10m	10u							30p$	AD	TO7 H
73#	AFY19	800m	350M§	4.0m	#J	32	32	.50	300m	10uØ	12	80m	40 †Δ		18		12p	AD	TO39 Ø
74	JAN2N2553	900m		12m	#J	60	40	20		70uØ	1.5Ø	500uØ	2.0 Δ		60 Ø				MT27 AØ
75	JAN2N2555	900m		12m	#J	100	60	20		70uØ	1.5Ø	500uØ	2.0 Δ		60 Ø				MT27 AØ
76#	ASY48	900m*Ø	1.2M§	3.3m	#J	64	45	16	300m	18u	.50Ø	100mØ	50 †					A	TO1
77#	AC121	900m*Ø	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	100 †					A	TO1
78#	AC152	900m*	1.5M§	3.3m	#J	32	24	10	500m	25u	.50Ø	100m	75 †						TO1 A
79#	ASY70	900m*Ø	1.5M§	3.3m	#J	32	30	16	300m	18u	.50Ø	100mØ	80 †					A	TO1
80#	AC162	900m*Ø	1.7M§	3.3m	#J	32	24	10	200m	25u	5.0	2.0m	110 †	80u	2.0k	8.0		A†	TO1
81#	AC163	900m*Ø	2.3M§	3.3m	#J	32	24	10	200m	25u	5.0	2.0m	160 †	90u	2.8k			A	TO1
82	2N673†	1.0 Ø		16mØ	#J	25	25	25	2.0	75uØ								A	TO26 AØ
83	2N675	1.0 Ø	400kΔ	16mØ	#J	75	75	70	2.0	100uØ	1.5Ø	1.0 Ø	40 Δ					AΔ	TO26 AØ
84	2N671	1.0 Ø	700k		#J	40	40	40	2.0m	25uØ	1.5Ø	1.0mØ	100 †					A	TO26 AØ
85#	AC153K	1.0 *Ø	1.5M§		#J	32	32 §	10	1.0	200u	0.0	300mØ	90 †					A	
86#	2N2095	1.0 Ø	500M§Δ	14mØ	#S	30	15	1.0	300m	15uØ							8.0pØ		TO31 AØ
87#	AC153	1.1 *Ø	1.5M§	3.3m	#J	32	32 §	10	1.0	200u	0.0	300mØ	90 †					A	TO1
88#	ACY33	1.1 *Ø	1.5M§	3.3m	#J	32	32 §	10	1.0	50u	0.0	300mØ	90 †					A	TO1
89#	2SA374	1.5 Ø	300M§		#J	34		.50	300m	12uØ	2.0	150m	100				13p	AD	TO5
90#	2SB492	6.0 Ø	700k§		#J	25	25 §	6.0	2.0	50u	1.5Ø	200mØ	110 †					A	TO39

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. GERMANIUM NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	2N1010	20m	2.0M	667u	*A	10	10	10	2.0m	10u	3.0Ø	.30m	35					AØ	TO1		A§
2	2N166	25m	5.0M		*	6.0			20m	5.0u	6.0	1.0m	32						R5		A
3	2N170	25m	5.0M	1.0m	*A	6.0			20m	5.0uØ	5.0Ø	1.0m	32	300ub	55	4.0	3.0f		R163		AE
4	2N35	50m			#A	25			8.0m		6.0Ø	1.0m	40 †						OV15a		AE
5	2N124	50m	300k	714u	Ø	10		5.0	8.0m	2.0u	5.0	1.0mØ	18				10p		OV9		
6	2N507	50m	600kΔ	1.0m	#J	40			100m	125u	.50Ø	10mØ	50 †☑					A	TO22		F
7	2N103	50m	.75M		Ø	35			10m	50u	4.5	1.0m	4.0				20p	G	OV9		A
8	2N97	50m	1.0M		Ø	30			10m	2.0u	4.5	1.0m	13				19p	GΔ	TO5		A
9	2N98	50m	2.5M		Ø	40			10m	2.0u	4.5	1.0m	40				14p	G	OV9		A
10	2N194	50m	3.0M	1.0m	ØJ		18 §		100m	25u	6.0Ø	1.0mØ	8.0				11p	A	TO22		F
11	2N194A	50m	3.0M	1.0m	ØJ		18 §		100m	50u	6.0Ø	1.0mØ	8.0				11p	A	TO22		F
12	2N211	50m	3.0M	1.0m	ØJ		10		50m	20u	6.0Ø	1.0m	5.0				10p	A	TO22		F
13	2N216	50m	3.0M	1.0m	ØJ		18 §		50m	50u	6.0Ø	1.0mØ	7.5				11p	A	TO22		F
14	2N515	50m	3.0M	1.0m	ØJ		18		10m	50u	6.0Ø	1.0mØ	7.5				11p	A	TO22		F
15	2N516	50m	3.0M	1.0m	ØJ		18 §		10m	50u	6.0Ø	1.0mØ	7.5				11p	A	TO22		F
16	2N517	50m	3.0M	1.0m	ØJ		18		10m	50uØ	6.0Ø	1.0mØ	7.5				11p	A	TO22		F
17	TR194	50m	3.0M	1.0m	ØJ		15		50m		6.0	1.0m	8.0				10p	A			
18	TR216	50m	3.0M	1.0m	ØJ		15		50m		6.0	1.0m	8.0				11p	A			
19	2N99	50m	3.5M		Ø	40			10m	2.0u	4.5	1.0m	40				10p	GΔ	OV9		A
20	TR193	50m	3.5M	1.0m	ØJ		15		50m				6.0					AB			
21	TR211	50m	3.5M	1.0m	ØJ		10		50m				30				10p				
22	2N125	50m	5.0M	1.4m	ØJ	10		5.0	8.0m	2.0u	5.0	1.0mØ	36	230nb	62	3.0	10p		OV9		
23	2N126	50m	5.0M	1.4m	ØJ	10		5.0	8.0m	2.0u	5.0	1.0m	20	b		90	14p		R26		
24	2N1058	50m	6.0M	1.0m	ØJ		20		50m	50u*	6.0Ø	1.0mØ	10 Δ				10p	A	TO22		F
25	TR212	50m	6.0M	1.0m	ØJ		10		50m		6.0	1.0m	10				10p	A			
26	2N169	55m	4.0M	1.1m	ØA	15	15		20m	5.0u							2.4p	G	OV17		A
27	2N169A	55m	5.0M	1.1m	ØA	25	25		20m	5.0u							2.4p	G	OV17		A
28	2N168	55m	6.0M	1.1m	ØA	15	15		20m	5.0u							2.4p	G	OV17		A
29	2N78A	65m		1.1m	#S	20	20	5.0	20m	3.0uØ									OV5		A
30	2N145	65m		1.4m	ØJ	20			5.0m	3.0u	9.0	1.0mØ					1.0p	G	OV9		
31	2N146	65m		1.4m	ØJ	20			5.0m	3.0u	9.0	1.0mØ					1.0p	G	OV9		
32	2N147	65m		1.4m	ØJ	20			5.0m	3.0u	9.0	1.0mØ					1.0p	G	OV9		
33	2N172	65m		1.4m	ØJ	16			5.0m	3.0u	9.0	1.0mØ					1.0p	G	OV9		
34	2N253	65m		1.4m	ØA	12			5.0m	3.0u							1.0p		OV9		A
35	2N254	65m		1.4m	ØA	20			5.0m	3.0u							1.0p		OV9		A
36#	2SD162	65m	3.0M	1.1m	#J	20	15 §	2.5	30m	12uØ	6.0Ø	1.0m	60	17u	2.0k	4.0		A	R18		
37	JAN2N78A	65m	3.4M§Δ	920u	#S	20	20	5.0	20m	3.0uØ	1.0Ø	1.0mØ	45 †Δ#	b		140 ☑	6.0p☑		OV17		A
38	2N164	65m	4.0MΔ		#J	15	15	1.0	30m	5.0u	1.0Ø	1.0mØ	80 ☑				10p		TO5		A
39	2N165	65m	5.0M	1.1m	#J	15	15		20m	5.0u	1.0Ø	.02mΔ	72 †				2.4p	G	R5		
40	2N292	65m	5.0M	1.1m	#S	15	15		20m	5.0u	1.0Ø	1.0mØ	25 †	67u		1.0	2.4p	G	OV5		
41	2N448	65m	5.0M	1.1m	#S	15	15		20m	5.0u	1.0Ø	1.0mØ	25 †	67u		1.0	2.4p	G	OV5		
42	TR213	65m	5.0M	1.1m	#J		15		20m	.50uØ	5.0	1.0m	25				2.4p	G			
43	2N167†	65m	8.0M	1.1m	#S	30	30	5.0	75m	1.5uØ	5.0Ø	1.0m	975m	200nb	40	1.5	4.0p$		OV17a		
44	2N168A	65m	8.0M	1.1m	#A	15	15		20m	5.0u							2.4p	G	OV17		A
45	2N293	65m	8.0M	1.1m	#S	15	15		20m	5.0u	1.0Ø	1.0mØ	25 †	67u		.50	2.4p	G	OV5		
46	2N449	65m	8.0M		#J		15		20m	5.0u		1.0mØ	72 †						OV17		
47	2N1086	65m	8.0M	1.1m	#J	9.0	9.0		20m	3.0uØ	5.0Ø	1.0mØ	40					G	OV5		A
48	2N1086A	65m	8.0M	1.1m	#J	9.0	9.0		20m	3.0uØ	5.0Ø	1.0mØ	40					G	OV5		A
49	2N1087	65m	8.0M	1.1m	#J	9.0	9.0		20m	3.0uØ	5.0Ø	1.0mØ	40					G	OV5		A
50	2N1121	65m	8.0M		#J		15		20m	5.0u		1.0mØ	34 †						OV5		A
51	TR167	65m	8.0M	1.1m	#S	30		5.0	75m	.80uØ	5.0	1.0m	25			4.0					
52	2N78	65m	9.0M	1.1m	#S	15	15	5.0	20m	3.0u	5.0	1.0m	58	200nb	55	2.0	6.0p		OV5		
53	2N1198	65m	9.0M	1.1m	#J	25	25	5.0	75m	1.5uØ	1.0Ø	8.0mØ	30 †	200nb	82 ☑	1.5	2.5p		OV17a		A
54	JAN2N167A†	70m	5.0MΔ	1.1m	#A		27	5.0	75m	2.0u	1.0Ø	5.0mØ	17 †Δ				6.0p☑		OV5		A
55	2N312	75m			#J	15	15	6.0		60u†	5.0Ø	10m	25 Δ					AΔ	R157		A
56	2N1510	75m		1.3m	#J	75	70 §	8.0	20m	5.0u	1.0	1.0mØ	30 †					G	OV5		
57	2N167A	75m	9.0M	1.2m	#S	30	30	5.0	25m	1.5uØ	1.0	8.0mØ	30 †	200nb	55	1.5	6.0p	Δ	OV5		
58	2N1217	75m	9.0M	1.3m	#S	20	20	5.0	25m	1.5uØ	1.0Ø	2.0mØ	60 †				2.5p	Δ	OV5		A
59	2N1694†	75m	9.0M	1.3m	#J	20	20	10	25m	1.5uØ	1.0Ø	2.0mØ	25 †				2.5p		TO5		A
60	GT905R	90m		1.8m	ØS		18			6.0uØ	4.5	1.0m	40				14p	§			
61	GT949R	90m		1.8m	ØS		12			6.0uØ	4.5	1.0m	120				14p				
62	2N556†	100m			#J	25		10	200m	25uΔ	.20Ø	1.0mΔ	30 †Δ				20p☑		TO5		A
63	2N557†	100m			#J	20		10	200m	25uΔ	.20Ø	1.0mΔ	20 †Δ				20p☑	A	TO5		A
64	2N558†	100m			#J	15		5.0	200m	25uΔ	.20Ø	1.0mΔ	60 †Δ				20p☑	A	TO5		A
65	2N647	100m		2.0m	ØA	25	25	12	50m	14u	1.0Ø	50mØ	70 †					A	TO1		A
66	2N649	100m		2.0m	ØA	20	18	2.5	50m	14uØ	1.0Ø	50mØ	65 †					A	TO1		A
67	TR03	100m			#S	20			200m	25u	.20Ø	1.0mØ	53								
68	TR05	100m			#S	20			200m	25u	.20Ø	1.0m	30					A			
69	TR07	100m				15			200m	25u	.20Ø	1.0m	40					A			
70	2N444	100m	.50MΔ	2.0m	#S	15	15			2.0uØ	4.5Ø	1.0m	15				13p	A	TO5		A§
71	TR09	100m	.70M		#S	30			200m	25u	3.5Ø	1.0mØ	30					A			
72	2N445	100m	2.0MΔ	2.0m	#S	15	12			2.0uØ	4.5Ø	1.0m	35				13p	A	TO5		A§
73	SK3010-RT	100m	2.0M§			25	25	12	100m		1.0Ø	50mØ	120 †					A	TO1		A
74	2N438†	100m	2.5MΔ	1.7m	#J	30	25	25		10uØ	6.0	1.0m	25		1.0k		9.0p$		TO5		A
75	2N1367	100m	2.5M§Δ	1.6m	#S	18		3.0	25m	15uØ	6.0Ø	1.0mØ	10 †Δ				14p☑		TO5		AØ
76	2N356†	100m	3.0M§	2.0m	#S	20	18	20	500m#	5.0uØ	5.0Ø	1.0mØ	30				14p	A	TO5		A§
77	2N182	100m	3.8M	2.0m	Ø	25		15			6.0	1.0m	25				10p	A	R8a		A
78	TR182	100m	3.8M	2.0m	ØJ	25		15		3.0uØ	6.0Ø	1.0m	25			10		AB			
79	2N164A	100m	4.0MΔ		#J	15	15	1.0	30m	5.0u	1.0Ø	1.0mØ	80 ☑				10p		TO5		A
80	TR04	100m	4.0M		ØS	20			200m	25u	.20Ø	1.0mØ	30					A			
81	TR08	100m	4.0M		#S	20			200m	20u	3.5Ø	1.0mØ	30					A			
82	2N292A	100m	5.0M		#J	15	15	.50	20m	5.0u	1.0Ø	1.0mØ	51 ☑				10p		TO5		A
83	2N439†	100m	5.0MΔ	1.7m	#J	30	20	25		10uØ	6.0	1.0m	35		1.5k		9.0p$	A	TO5		A
84	2N446	100m	5.0MΔ	2.0m	#S	15	10			2.0uØ	4.5Ø	1.0m	60				13p	A	TO5		A§
85	2N1366	100m	5.0M§Δ	1.6m	#S	18		3.0	25m	15uØ	6.0Ø	1.0mØ	20 †Δ				18p☑		TO5		AØ
86	2N357†	100m	6.0M§	2.0m	#S	20	15	20	500m#	5.0uØ	5.0Ø	1.0mØ	45				14p	A	TO5		A§
87	2N183	100m	7.5M	500u	Ø	25		15			6.0	1.0m	40				10p	A	R8a		A
88	TR183	100m	7.5M	2.0m	ØJ	25		15		3.0uØ	6.0Ø	1.0m	40			10		AB			
89	2N358†	100m	9.0M§	2.0m	#S	20	12	20	500m#	5.0uØ	5.0Ø	1.0mØ	60				14p	A	TO5		A§
90	2N447	100m	9.0MΔ	2.0m	#S	15	6.0			2.0uØ	4.5Ø	1.0m	125				13p	A	TO5		A§
91	2N440†	100m	10MΔ	1.7m	#J	30	15	25		10uØ	6.0	1.0m	65		2.5k		9.0p$	A	TO5		A
92	2N184	100m	15M	500u	Ø	25		15			6.0	1.0m	60				10p	A	R8a		A
93	TR184	100m	15M	2.0m	ØJ	25		15		3.0uØ	6.0Ø	1.0m	60				10p	AB			
94	2N1311	120m		2.0m	#J	75		20		7.0uØ	.25Ø	5.0mØ	15 †Δ	2.0uØb		15 ☑		Δ	TO5		A
95	2N1312	120m		2.0m	#J	50		20		7.0uØ	.25Ø	20mØ	20 †Δ	2.0uØb		15 ☑		Δ	TO5		A
96♦	2N1622	120m		2.0m	#S	90	90 Ø	20		7.0uØ	.25Ø	5.0mØ	40 †Δ	2.0uØb	15 ☑				TO5		A
97	2N1310	120m	1.0M	2.0m	#S	90		20		25u	5.0	1.0m	35	1.0ub	35	5.0	11p		TO9		A
98	JAN2N1310	120m	1.0MΔ	2.0m	#S	90		20		7.0uØ	.25Ø	5.0mØ	20 †Δ	2.0ub		15			TO9		A
99	2N1672	120m	2.0MΔ	2.0m	#J	40	40	10			6.0	1.0m	15 Δ		4.0k☑			A	TO5		F
100	2N1672A	120m	2.0MΔ	2.0m	#S	40	40	10			6.0Ø	1.0m	15 Δ		4.0k☑		4.0p$☑		TO5		A
101	GT1201	120m	3.0MΔ	2.0m	#S	75		20		25u	.25Ø	1.0mΔ	30 †	500nb	35	8.0	9.0p	A			
102	SK3011-RT	120m	3.0M§Δ			25	15	20	200m		.20Ø	20mØ	20 †Δ					A	TO5		A
103	2N585	120m	5.0M		ØA	25	24	20	200m	8.0uØ	.20Ø	20mØ	40 †				12p	AΔ	TO1		A
104#	2SC90†	120m	5.0M	2.0m	#J	25		20	400m	25u	.30	200m	20 Δ†				25p		TO5		
105	GT1202	120m	5.0MΔ	2.0m	#S	45		20		25u	.25Ø	1.0mΔ	30 †	500nb	35	11	9.0p	A			
106	2N1090†	120m	7.0M		#A	25	15	20	400m	25u	.20Ø	20mØ	50 †				17p	A	TO9		A
107#	2SC91†	120m	10.M	2.0m	#J	25		20	400m	25u	.30	200m	20 Δ†				25p		TO5		
108	2N1091†	120m	13.M		#A	25	12	20	400m	25u	.20Ø	20mØ	70 †				17p	A	TO9		A
109	TR214	125m	.80M	2.5m	#J		10			200u			70				15p	A			
110#	2SC128†	125m	5.5M§		ØJ	30	25	20	100m	3.0uØ	.50Ø	100mØ	30 †					A	TO5		

3. GERMANIUM NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SC129†	125m	8.0M§		ØJ	25	20	20	100m	3.0uØ	.50Ø	100mØ	45 †					A	TO5	
2#	OC141	130m	9.0M	2.0m	ØJ	20	20	20	200m	3.0uØ	0.0	15m	100 Δ				30pØ	AΔ	R9	
3#	OC139	140m	3.5MØΔ	2.8m	ØJ	20	20	20	250m		0.0	15m	40 †				20p	AΔ	R9	
4#	ASY73-RT†	140m	4.0M§Δ	2.8m	ØJ	30	15	30	400m	3.0uØ		200mØ	20 Δ				30p§Ø	A	TO5	A
5#	OC140	140m	4.5MØΔ	2.8m	ØJ	20	20	20	400m		0.0	15m	75 †				20p	AΔ	R9	
6#	ASY74-RT†	140m	6.0M§Δ	2.8m	ØJ	30	15	30	400m	3.0uØ		200mØ	35 Δ				30p§Ø	A	TO5	A
7#	ASY75-RT†	140m	10M§Δ	2.8m	ØJ	30	15	30	400m	3.0uØ		200mØ	50 Δ				30p§Ø	A	TO5	A
8	2N356A†	150m		2.0m	#S	30	20	20		5.0uØ	.25Ø	100mØ	20 †Δ						TO5	A§
9	2N357A†	150m		2.0m	#S	30	20	20		5.0uØ	.25Ø	200mØ	25 †Δ						TO5	A§
10	2N358A†	150m		2.0m	#S	30	15	20		5.0uØ	.25Ø	300mØ	25 †Δ						TO5	A§
11	JAN2N358A†	150m		2.0m	#J	30	15	20		25u	.25	300mØ	25 †Δ						TO5	A§
12	2N440A	150m		2.5m	#J	30	15	25		10uØ	6.0	1.0m	65		2.5k		9.0p§	A	TO5	A§
13	2N587†	150m				40	20	40	200m	50u	.50Ø	200mØ	20 †Δ				30pØ		TO5	A§
14	2N1730†	150m		2.5m	#J	25	15 #	20	300m	6.0u	.30Ø	100mØ	30 †Δ				20pØ		TO5	A§
15	GT2884	150m		2.5m	#J	9.0	6.0 Ø	9.0		50u	6.0Ø	1.0m	100				20p	FA	TO5	
16	GT2886	150m		2.5m	#J	9.0	6.0 Ø	9.0		50u	6.0Ø	1.0m	200				20p	FA	TO5	
17	GT2888	150m		2.5m	#J	9.0	6.0 Ø	7.0		50u	6.0Ø	1.0m	250				20p	FA	TO5	
18#	NKT773	150m		2.5m	#J	15	15 §	5.0	300m	15uØ	1.5Ø	50mØ	50 †Δ						TO1	A
19	2N1251	150m	75kΔ	2.5m	#J	20	15 §	10	100m	50u	6.0Ø	1.0m	150					A	TO22	F
20	2N444A	150m	500kΔ	2.0m	#S	40	25	10		4.0uØ	5.0Ø	1.0m	15 Δ	1.0uØb					TO5	A§
21	GT364	150m	1.0M	2.0m	#S	30		2.0		10u	5.0Ø	1.0m	20	500nb	50	3.5	18p	A	TO5	
22	GT365	150m	1.0M	2.0m	#S	30		2.0		10u	5.0Ø	1.0m	40	500nb	50	3.5	18p	A	TO5	
23	GT366	150m	1.0M	2.0m	#S	30		2.0		10u	5.0Ø	1.0m	100	500nb	50	3.5	18p	A	TO5	
24	2N94	150m	2.0MΔ	2.5m	#J	20	20 §		100m	50u	6.0Ø	1.0mØ	50 †				100p	A	TO22	F
25	2N233	150m	2.0MΔ	1.5m	#J	10	10	5.0	100m	50u	6.0Ø	1.0m	3.5 Δ				11p	A	TO22	F
26	2N233A	150m	2.0MΔ	1.5m	#J	18	18 §	5.0	100m	50u	6.0Ø	1.0mØ	15				11p	A	TO22	F
27	2N445A	150m	2.0MΔ	2.0m	#S	30	18	10		4.0uØ	5.0Ø	1.0m	35 Δ	1.0uØb					TO5	A§
28#	2SD33	150m	2.0M	2.5m	#J	20	15 §	2.5	50m	14uØ	6.0Ø	1.0m	60	17.u	1.7k	3.8		A	TO1	
29#	2SD37	150m	2.0M	2.5m	#J	30	20 §	12	50m	14u	6.0Ø	1.0m	60 *	17.u	1.7k	3.8	30p	A	TO1	
30	2N364	150m	2.5M	2.0m	#S	30		2.0	50m	10u	5.0	1.0m	12 †				4.5p	G	OV9	F
31	2N438A†	150m	2.5MΔ	2.5m	#J	30	25	25		10uØ	6.0	1.0m	25		1.0k		9.0p§	A	TO5	A§
32#	2SD195	150m	2.5MΔ	2.5m	#J	20	15 §	15	50m	14uØ	1.0Ø	50mØ	70 †					AΔ	TO1	
33	2N193	150m	3.0M	2.5m	#J	18	18 §	5.0	50m	50u	6.0Ø	1.0m	7.5				11p	A	TO22	A
34	2N365	150m	3.0M	2.0m	#S	30		2.0	50m	10u	5.0	1.0m	26 †				4.5p	G	OV9	F
35	2N679†	150m	3.0M	2.5m	#J	25				25u	.50Ø	3.0mØ	30 †					A	R5	
36	2N1012†	150m	3.0MΔ	2.0m	#S	40	22	35		5.0uØ	.25Ø	100m	40 †Δ				20pØ		TO5	A§
37	2N1302	150m	3.0MΔ	2.5m	#J	25		25	300m	6.0u	1.0Ø	10mØ	20 †Δ				20pØ	Δ	TO5	A§
38	JAN2N1302	150m	3.0MΔ	2.5m	#S	25		25	300m	6.0u	1.0Ø	10mØ	20 †Δ				20pØ		TO5	A§
39	2N1391	150m	3.0MΔ	2.0m	#S	25	18	15		4.0uØ	5.0Ø	1.0m	35 Δ						TO5	A
40	2N1993†	150m	3.0MΔ	2.0m	#J	30	18	30	300m	10uØ	1.0Ø	10mØ	50 Δ				20pØ	A	TO5	AØ
41#	2SD75AH	150m	3.0M			45	30	12	100m		6.0Ø	1.0m	40	15u	1.1k	25	4.2p	A	TO1	
42#	2SD75H	150m	3.0M			30	30	12	100m	10u	6.0Ø	1.0m	40	15u	1.1k	25	4.2p	A	TO1	
43#	NKT732	150m	3.0M	2.0m	#J		25		300m	6.0uØ	1.0Ø	10m	20 †Δ				20pØ	A	TO5	A
44	2N366	150m	3.5M	2.0m	#S	30		2.0	50m	10u	5.0	1.0m	65 †				4.5p	G	OV9	F
45#	2SD77	150m	3.5M			25	25 Ø	12	100m	14u	6.0Ø	1.0m	55	16.u	1.6k	3.1		A	TO1	
46#	2SD77A	150m	3.5M			45	45 Ø	12	100m		6.0Ø	1.0m	55	16.u	1.6k	3.1		A	TO1	
47#	2SD77AH	150m	3.5M			45	30	12	100m		6.0Ø	1.0m	55	19u	1.4k	2.7	5.0p	A	TO1	
48#	2SD77H	150m	3.5M			30	30	12	100m	10u	6.0Ø	1.0m	55	19u	1.4k	2.7	5.0p	A	TO1	
49	2N212	150m	4.0MΔ	1.0m	#A	18	18	5.0	100m	50u	6.0Ø	1.0mØ	20				10p	A	TO22	F
50	2N94A	150m	5.0MΔ	2.5m	#J	20	20 §		100m	50u	6.0Ø	1.0mØ	20 †				100p	A	TO22	F
51	JAN2N388†	150m	5.0MΔ	2.0m	#S	25	20 §	15	200m	10u	.50Ø	30mØ	60 †Δ				20pØ		TO5	A§
52	2N439A†	150m	5.0MΔ	2.5m	#J	30	20	25		10uØ	6.0	1.0m	35		1.5k		9.0p§	A	TO5	A§
53	2N446A	150m	5.0MΔ	2.0m	#S	30	15	10		4.0uØ	5.0Ø	1.0m	60 Δ	1.0uØb					TO5	A§
54	2N1299	150m	5.0M	2.0m	#J	40					1.0Ø	50mØ	35 †Δ					A	TO5	A§
55	2N1304	150m	5.0MΔ	2.5m	#J	25		25	300m	6.0u	1.0Ø	10mØ	40 †Δ				20pØ	Δ	TO5	A§
56	JAN2N1304	150m	5.0MΔ	2.5m	#S	25		25	300m	6.0u	1.0Ø	10mØ	40 †Δ				20pØ		TO5	A§
57	2N1624†	150m	5.0MΔ	2.0m	#J	25	20	15		5.0uØ	1.0Ø	30mØ	60 †Δ				25pØ	A	TO5	A
58	2N1732	150m	5.0MΔ	2.5m	#S	30	30 #	25	300m	6.0u	1.0Ø	10mØ	40 †Δ				20pØ		TO5	A§
59	2N1891*	150m	5.0MΔ	2.5m	#S	25	15	25	300m	5.0uØ	.15Ø	100mØ	25 †Δ				20pØ		TO5	A§
60	2N1892†	150m	5.0MΔ	2.5m	#J	30	15	25	300m	6.0uØ	5.0Ø	2.0mØ	30 Δ				20pØ		TO5	A§
61	GT2768	150m	5.0M	2.5m	#J	40	10			25u	5.0Ø	1.0m	75				15p	FA	TO5	
62#	NKT734†	150m	5.0M	2.5m	#J	25	20	25	300m	6.0u	1.0Ø	10mØ	40 †Δ				20pØ		TO5	A
63	2N377†	150m	6.0M	2.0m	#J	25	20 §	15	200m	10u	.50Ø	30mØ	40 †				15p	A	TO5	A
64	2N377A†	150m	6.0M	2.0m	#J	40		15	200m	20uØ	1.0Ø	30mØ	20 Δ				15p	A	TO5	A§
65	2N385	150m	6.0M	2.0m	#J	25	25 §	15	200m	10u	.75Ø	30m	60 †				15p	AΔ	TO5	A
66	GT2765	150m	6.0M	2.5m	#J	40	20			25u	5.0Ø	1.0m	30				15p	FA	TO5	
67	GT2906	150m	6.0M	2.5m	#J	20	15 §	15	300m	25u	.25Ø	300mØ	30 †				15p	FA	TO5	
68	2N1000†	150m	7.0MΔ	2.0m	#S	40	25	40		15u	.50Ø	100m	25 †Δ				20pØ		TO5	A
69	2N1114	150m	7.0MΔ		#J	25	15	15	200m	30u	.20Ø	20mØ	40 Δ						TO5	A§
70	2N385A	150m	8.0M	2.0m	#J	40	15	15	200m	40u	.50Ø	30m	70 †				20pØ	AΔ	TO5	A
71	2N388A†	150m	8.0M	2.0m	#J	40		15	200m	10uØ	.50Ø	30mØ	60 †Δ				15p	A	TO5	A§
72	2N634	150m	8.0M	2.5m	#J	20	15	15	300m	5.0uØ	.75Ø	200mØ	15 †Δ					A	R158	A§
73	2N634A†	150m	8.0M	2.5m	#J	25	20 §	25	300m	6.0u	1.0Ø	10mØ	55 †				12p	A	R158	AØ
74	2N2085	150m	8.0M	2.0m	#	33			500m	5.0uØ	.25Ø	10m	100				20p	A	TO5	A
75	GT2766	150m	8.0M	2.5m	#J	15	9.0			25u	5.0Ø	1.0m	23				15p	FA	TO5	
76	GT2767	150m	8.0M	2.5m	#J	40	15			25u	5.0Ø	1.0m	20				15p	FA	TO5	
77	2N447A	150m	9.0MΔ	2.0m	#S	30	12	10		4.0uØ	5.0Ø	1.0m	85 Δ	1.0uØb					TO5	A§
78	2N1306	150m	10MΔ	2.5m	#J	25		25	300m	6.0u	1.0Ø	10mØ	60 †Δ				20pØ	Δ	TO5	A§
79	JAN2N1306	150m	10MΔ	2.5m	#S	25		25	300m	6.0u	1.0Ø	10mØ	60 †Δ				20pØ		TO5	A§
80#	NKT736	150m	10.M	2.5m	#J	25		25	300m	6.0u	1.0Ø	10mØ	60 †Δ				20pØ		TO5	A
81	GT1079	150m	11M	2.0m	#S	20		20		25u	.25Ø	400mØ	40 †	500nb			14p	AΔ		
82	2N635	150m	12M	2.5m	#J	20	15	15	300m	5.0uØ	.75Ø	200mØ	25 †Δ					A	R158	A§
83	2N635A†	150m	12M	2.5m	#J	25	20 §	25	300m	6.0u	1.0Ø	10mØ	100 †				12p	A	R158	AØ
84	2N1605	150m	14.M	2.0m	#J	25	24	12	100m	5.0uØ	.25Ø	20mØ	125 †				13p	A	TO5	A§
85	2N1808†	150m	14.M	2.5m	#J	25	25	20	300m	5.0uØ	.25Ø	20mØ	125 †				13p	A	TO5	A§
86#	ASY28-RT†	150m	14M§	2.5m	#J	30	15	20	200m	7.0u	5.0Ø	2.0mØ	50	45u	750	3.5	11p§	A	TO5	A§
87	2N388†	150m	15.M	2.0m	#J	25	20	15	200m	10u	.50Ø	30m	150 †				15p	A	TO5	A§
88	2N1308	150m	15MΔ	2.5m	#J	25		25	300m	6.0u	1.0Ø	10mØ	80 †Δ				20pØ	Δ	TO5	A§
89	JAN2N1308	150m	15MΔ	2.5m	#S	25		25	300m	6.0u	1.0Ø	10mØ	80 †Δ				20pØ		TO5	A§
90#	NKT738	150m	15M	2.1m	#J		15		300m	6.0uØ	1.0Ø	10m	60 †Δ				20pØ	A	TO5	A
91	2N636	150m	17M	2.5m	#J	20	15	15	300m	5.0uØ	.75Ø	200mØ	35 †Δ					A	R158	A§
92	2N636A†	150m	17M	2.5m	#J	25	15 §	25	300m	6.0u	1.0Ø	10mØ	190 †				12p	A	R158	AØ
93#	ASY29-RT†	150m	20M§	2.5m	#J	25	15	20	200m	7.0u	5.0Ø	2.0mØ	90	70u	1.4k	5.0	11p§	A	TO5	A§
94	HEP641-RT	150m♦	150M§		#J	25	15 Ø§	10	300m§	6.0u§	25		70 †						TO5	A
95	2N797†	150m	600M§Δ	2.0m	#S	20	7.0	4.0	150m	1.0uØ	.50Ø	50mØ	40 Δ						TO18	AØ
96	2N2482	150m	600M§Δ	2.0m	#S	20	12	3.0	100m	5.0uØ	6.0Ø	2.0mØ	15 Δ				4.5pØ		TO18	AØ
97#	NKT713	160m	2.0M	3.2m	#J	30	30 §	15	500m	15uØ	0.0Ø	50mØ	50 †Δ						TO1	A
98	2N2354	180m		3.0m	#S	20	15 §	10	150m	50u	1.5Ø	35mØ	50 †Δ						TO22	F
99	2N1059	180m	10k†	3.6m	ØJ	40	15 §		100m	50u	6.0Ø	35mØ	75 †						TO22	F
100	2N1101	180m	10k†Δ	3.6m	ØJ	20	15		100m	50u	1.6Ø	35mØ	40 †						TO22	F
101	2N1102	180m	10k†Δ	3.6m	ØJ	40	25		100m	50u	1.6Ø	35mØ	40 †						TO22	F
102	2N1431	180m	10k†Δ		ØJ	20	15	10	100m	50u	1.5Ø	35mØ	75 †Δ						TO22	F
103	2N214A	180m	100k	3.0m	J	40	25	10	100m	50u	1.5Ø	35mØ	100	50u	500	10	28p	A	TO5	
104	2N213A	180m	150k	2.5m	ØJ	40	25 §	10	100m	50u	6.0Ø	1.0mØ	185	50uØ	5.5k		10p	A	TO22	F
105	2N228	180m	.60M	3.3m	#J	40	15 §	10	100m	100u	6.0Ø	1.0mØ	80		2.3k			A	TO22	F
106	2N229	180m	.60MΔ	3.0m	#J	10	10 §	20	100m	100u	6.0Ø	1.0mØ	75					A	TO22	F
107	2N306	180m	.60MΔ	3.0m	#J	20	15 §	10	100m	50u	6.0Ø	1.0mØ	75					A	TO22	F
108	2N214	180m	.80M	3.0m	#J	40	25	10	100m	50u	1.5Ø	35mØ	75 †	50uØ	500	10 Ø	28p	A	TO22	F
109	2N213	180m	3.0M	2.5m	#	40	25 §	10	100m	50u	6.0Ø	1.0mØ	80	50uØ	5.5k	10		A	TO22	F
110#	2SD167	200m		3.3m	#J	20	20 Ø	2.5	500m	20uØ	1.0Ø	150mØ	120					A	R16	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. GERMANIUM NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1#	2SD186	200m				20			150m	15u	1.5Ø	10mØ	150					A	TO1		
2#	2SD187	200m				25			150m	15u	1.5Ø	30mØ	150					A	TO1		
3#	AC172	200m	2.5M§	2.7m	#J	32	12	10	10m	10uØ	5.0Ø	500uØ	45 Δ				70p$	A	TO1		F
4#	AC183	200m	3.5M§	3.3m	#J	32	18 §	10	150m	20uØ	6.0Ø	1.0m	50 Δ						TO1		
5	2N576†	200m	5.0M	2.6m	#J	20	20	15	400m	20u	.40Ø	400mØ	30 †				15p	A	TO5		A§
6	2N1605A	200m	6.0M	2.6m	#	40		12	100m	10u	.25Ø	20m	60 †				15p	AΔ	TO5		A
7	2N576A†	200m	8.0M	2.7m	#J	40		15	400m	40u	.40Ø	400mØ	30 †				15p	A	TO5		A§
8#	NKT781	215m		3.3m	#J	32		5.0	1.0	30uØ	0.0Ø	50mØ	52 †Δ						TO1		A
9#	AC141	220m	3.0M	3.3m	#J	32	32 Ø	10	1.2	14uØ		400m	80 †					A	TO1		
10#	AC141B	220m	3.0M	3.3m	#J	25	25 Ø	10	1.2	14uØ	6.0	1.0m	100					A	TO1		
11#	2SD178	225m	1.5M	4.5m	ØJ	20		6.0	300m	27uØ	.50	300m	90					A	R43		
12#	2SD178A	225m	1.5M	4.5m	ØJ	40		6.0	300m	27uØ	.50	300m	90					A	R43		
13#	AC185	225m	4.0M§	3.0m	#S	32	24 §	10	500m	20uØ	1.0Ø	200mØ	110 †*					A	R134		
14	JAN2N1173	250m		3.3m	#S	35	20	35	200m	10uØ	10Ø	500uØ	50 Δ				25pØ		TO29		A
15#	2SD128A	250m			#J	32	30 §		500m	20uØ	1.0Ø	500mØ	46 †#Δ					A	TO1		
16#	SFT377	250m	1.0M§Δ	3.3m	#S		16	10	600m	10uØ	1.0Ø	300mØ	50 †*						TO1		
17#	2SD34	250m	2.0M	4.2m	#J	20	15 §	2.5	150m	14uØ	6.0Ø	1.0m	60	20u	1.8k	5.0		A	TO7		
18#	2SD38	250m	2.0M	4.2m	#J	30	20 §	12	150m	16u	6.0Ø	1.0m	60 *	20u	1.8k	5.0	45p	A	TO7		
19	2N1473	250m	8.0M	4.2m	#J	40	40 §	15	400m	5.0uØ	.60Ø	400m	50 †				15p	A	TO5		A§
20#	AC141K	260m	3.0M	4.0m	#J	32	32 Ø	10	1.2	14uØ		400m	80 †					A	TO1		
21	2N2430	280m	2.5M§	2.7m	#	32	32	10	500m	10u	0.0	50m	105				70p	A	TO1		A
22#	2SD30	300m				25			200m	15u	1.5Ø	100m	150					A	TO1		
23#	AC181	300m	1.0M§Δ	4.0m	#S	32	24 §	10	1.0	200n	1.0Ø	600mØ	110 †#*					A*	R134		
24	40396/N	300m#Ø	2.0M	10m	#J	18	18 §	2.5	500m	14uØ	1.0Ø	50mØ	50 †Δ						TO1		
25#	2SD96	300m	4.0M			25	18 §	2.5	250m	14u	1.5Ø	50mØ	90 †								
26	HA5020	300m	4.0M	2.2m	ØS	20		20	200m	5.0uØ	5.0	1.0m	49				15p	A			
27	HA5022	300m	4.0M	2.2m	ØS	25		25	200m	4.0uØ	5.0	1.0m	49				15p	A			
28	HA5024	300m	4.0M	6.6m	ØJ	20		20	200m	5.0uØ	5.0	1.0m	49				15p	AΔ			
29	HA5021	300m	5.0M	2.2m	*A	20		20	200m	10uØ	5.0	1.0m	49				15p	A			
30	HA5025	300m	6.0M	6.6m	ØJ	20		20	200m	5.0uØ	5.0	1.0m	49				15p	AΔ			
31	HA5023	300m	8.0M	2.2m	ØS	20					5.0	1.0m	49					A			
32	HA5026	300m	8.0M	6.6m	ØJ	20		20	200m	5.0uØ	5.0	1.0m	49				15p	AΔ			
33#	AC127	340m*	2.5M§	2.7m	#J	32	12	10	500m	15uØ	0.0	20mØ	100 †				70p$	A	TO1		F
34#	AC127-01	340m*	2.5M§	4.0m	#J	32	12	10	500m	10uØ	0.0	500mØ	50 †				70p$	A	X9c		A
35	HA5002	400m	1.0M	9.9	ØJ	20		20	200m	20uØ	5.0	1.0m	40					A			
36	HA5005	400m	1.0M	9.9	ØJ	10		10	200m	30uØ	5.0	1.0m	20				20p	A			
37	HA5012	400m	1.0M	9.9	ØJ	20		20	200m	20uØ	5.0	1.0m	40					A			
38	HA5016	400m	1.0M	9.9m	ØJ	30		30	200m	5.0uØ	5.0	1.0m	40					A			
39	HA5003	400m	1.5M	9.9	ØJ	30		20	200m	15uØ	5.0	1.0m	50					A			
40	HA5011	400m	1.5M	9.9	ØJ	40		30	200m	20uØ	5.0	1.0	50					A			
41	HA5014	400m	2.3M	9.9	ØJ	40		30	200m	20uØ	5.0	1.0m	80				40p	A			
42	HA5001	400m	2.5M	9.9	ØJ	30		20	200m	10uØ	5.0	1.0m	60				20p	A			
43	HA5009	400m	2.5M	9.9	ØJ	10		10	200m	30uØ	5.0	1.0m	15				40p	A			
44#	AC176	700m	1.0M§Δ	25m	#J	32	32	5.0	1	30uØ	0.0	500m	180 †Δ					A	TO1		
45#	2SD72	720mØ	750k§		#J	25	25 §	6.0	600m	50u	1.0Ø	200mØ	80 †					A	TO1		
46#	AC187	800m	1.5M§	13m	#J	25	15	10	1	100u	1.0Ø	300mØ	200 †				150p$	A	R51a		A
47#	AC187K	800m	3.0M§	13m	#J	25	15	10	1	200u									X9a		
48#	AC187/01	800m*	5.0M§	14m	#J	25	15	10	1.0	100u	1.0Ø	300mØ	200 †				150p$	A*	X9c		A

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	2N327A		200k	2.8m	$J	50	40	20	50m	100nØ	5.0Ø	3.0mØ	14	35u	1.0k		70p	FA△	TO5	A
2	2N328A		300k	2.8m	$J	50	35	20	50m	100nØ	5.0Ø	3.0mØ	28	40u	1.7k		70p	FA△	TO5	A
3	2N329A		500k	2.8m	$J	50	30	20	50m	100nØ	5.0Ø	3.0mØ	60	50u	3.0k		70p	FA△	TO5	A
4	2N330A		500k	2.8m	$J	50	30	20	50m	100nØ	5.0Ø	3.0mØ	25	40u	1.7k		70p	FA△	TO5	A
5	SHA7538		800k			60	60	60		100n	5.0Ø	1.0mØ	28 △							
6	2N1477		1.0M△	1.6m	§J	100	100	100	100m	200nØ	6.0	1.0m	30 △						TO5	A
7	2N1676		125M§△		$J	4.5	4.5	4.5	50m	100n	.20Ø	2.0mØ	25 †△				2.0pØ	Ø	TO5	A
8	2N1677		125M§△		$J	4.5	4.5	4.5	50m	100n	3.0Ø	1.0m	25 △	5.0uØb	70 Ø		14p$Ø	Ø	TO5	A
9#	2S326Ø	50m	1.0M	400u	§J	6.0	6.0	6.0	10m	10n	3.0	1.0m	80				40p	A	R51	
10#	2S306Ø	50m	1.5M§△	400u	§J	6.0	6.0	6.0	10m	10n	3.0	1.0m	80					A	TO5	
11#	2S307Ø	50m	2.0M§		§A	15	15	15	10m	10u	3.0	1.0m	80					A	TO5	
12#	2S327Ø	50m	2.0M§		§A	15	15	15	10m	10u	3.0	1.0m	80					A	R51	
13#	BC200	50m	9.0M§	625u	♦J	20	20		50m		.50Ø	2.0mØ	200 †	18u	15			PE		
14	A160	50m*	90M§	625u	♦J	20	20	5.0	50m	100n	.50Ø	200uØ	75	13u	12k	13	5.0p$	PEØ	u45	B
15	A161	50m*	90M§	625u	♦J	20	20	5.0	50m	100n	.50Ø	200uØ	140	18u	15k	25	5.0p$	PEØ	u45	B
16	A162	50m*	90M§	625u	♦J	20	20	5.0	50m	100n	.50Ø	200uØ	250	33u	20k	40	5.0p$	PEØ	u45	B
17#	BCW99A†	50m*	200M§	625u	♦J	45	45	5.0	100m	20m§	5.0	2.0m	200	18u	2.7k	1.5	7.0p$Ø	Ø	u131a	B
18#	BCW99B†	50m*	200M§	625u	♦J	45	45	5.0	100m	20n§	5.0	2.0m	260	24u	3.6k	2.0	7.0p$Ø	Ø	u131a	B
19#	BCW99C†	50m*	200M§	625u	♦J	45	45	5.0	100m	20n§	5.0	2.0m	330	30u	4.5k	2.0	7.0p$Ø	Ø	u131a	B
20#	BFS14E	60m		1.6m	♦J	40	40	5.0		50n	5.0Ø	1.0mØ	70 △				7.0pØ	PE		D
21#	BFS14F	60m		1.6m	♦J	40	40	5.0		50n	5.0Ø	1.0mØ	70 △				7.0pØ	PE		E
22#	BFS14G	60m		1.6m	♦J	40	40	5.0		50n	5.0Ø	1.0mØ	70 △				7.0pØ	PE		F
23#	BFS26E	60m		1.6m	♦J	20	20	5.0		150n	1.0Ø	10mØ	50 △				7.0pØ	PE		D
24#	BFS26F	60m		1.6m	♦J	20	20	5.0		150n	1.0Ø	10mØ	50 △				7.0pØ	PE		E
25#	BFS26G	60m		1.6m	♦J	20	20	5.0		150n	1.0Ø	10mØ	50 △				7.0pØ	PE		F
26#	BFS16E	75m		1.3m	♦J	40	30	5.0		50n	10Ø	10mØ	30 △				10pØ	PE		D
27#	BFS16F	75m		1.3m	♦J	40	30	5.0		50n	10Ø	10mØ	30 △				10pØ	PE		E
28#	BFS16G	75m		1.3m	♦J	40	30	5.0		50n	10Ø	10mØ	30 △				10pØ	PE		F
29	D30A1	90m		1.2m	#J	25	25	4.0		25nØ	5.0Ø	10mØ	30 †△#				8.0p$Ø	PE△	u40b	D
30	D30A2	90m		1.2m	#J	25	25	4.0		25nØ	5.0Ø	10mØ	60 †△#				8.0p$Ø	PE△	u40b	D
31	D30A3	90m		1.2m	#J	25	25	4.0		25nØ	5.0Ø	10mØ	140 †△#				8.0p$Ø	PE△	u40b	D
32	D30A4	90m		1.2m	#J	25	25	4.0		25nØ	5.0Ø	10mØ	250 †△#				8.0p$Ø	PE△	u40b	D
33	D30A5	90m		1.2m	#J	25	25	4.0		25nØ	5.0Ø	10mØ	400 †△#				8.0p$Ø	PE△	u40b	D
34	3N123Ø	100m	6.0M§△	571u	§S	30		25	20m	10nØ							10pØ		TO72	GDØ
35	2N2177	100m	8.0M	666u	§J	6.0	6.0	6.0	50m	1.0nØ	1.5Ø	20uØ	50 †		60k		10p	AØ	TO5	A
36	2N2178	100m	8.0M	666u	§J	6.0	6.0	6.0	50m	1.0nØ	1.5Ø	20uØ	50 †		60k		10p	AØ	TO18	A
37	2N2175	100m	10M§△	666u	§J	6.0	6.0	6.0	50m	1.0nØ	1.5Ø	20uØ	50 †		60k		10p	AØ	TO5	A
38	2N2176	100m	10M§△	666u	§J	6.0	6.0	6.0	50m	1.0nØ	1.5Ø	20uØ	50 †		60k		10p	AØ	TO18	A
39	2N1429	100m	18M*△	870u	§J	6.0	6.0		50m	100n	3.0	1.0mØ	25 △	5.0uØb	70 Ø		14pØ	SA	TO5	A
40#	MT0411	100m	30M§△	800u	§J	20	20 *	6.0		10n	6.0Ø	1.0mØ	60 △	1.0uØb	35 Ø	10 Ø	5.0pØ	PLØ	u81	B
41#	MT0413	100m	30M§△	800u	§J	20	20 *	5.0		50nØ	6.0Ø	1.0mØ	50 △	1.0uØb	40 Ø	10 Ø	8.0pØ	PLØ	u81	B
42#	MT0412	100m	40M§△	800u	§J	20	20 *	6.0		10n	6.0Ø	1.0mØ	150 △	1.0uØb	35 Ø	10 Ø	5.0pØ	PLØ	u81	B
43	TK582	100m	40M§		§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	225	100nb	26		5.0p	PEØ	u120	P
44#	MT0414	100m	60M§	800u	§J	25	20	4.0		2.0uØ	5.0Ø	1.0mØ	200	12u	15k	20	7.0p	PEØ	u81	B
45#	2SA609	100m	80M§		♦J	30	15	5.0	100m	1.0u	6.0Ø	1.0mØ	80 †				12p	PE	R145	D
46#	2SA701	100m	80M§		♦J	30	30	5.0	50m	1.0uØ	6.0Ø	1.0mØ	200 †					E	R145	
47#	2SA702	100m	80M§		♦J	50	50	5.0	50m	1.0uØ	6.0Ø	1.0mØ	200 †					E	R145	
48#	2SA608†	100m	180M§		♦J						1.0Ø	10mØ	100 †				12p	PE	R145	D
49#	2SC641K†	100m	200M△§		§J						0.5Ø	1.0mØ	28 △†				6.0pØ	PE	†	
50▼#	MT0493	100m	600M§	800u	§J	15	12	5.0			1.0Ø	30m	30 △				4.0pØ	△	u81	
51▼#	MT0491	100m	700M§	800u	§J	30	20	5.0			1.0Ø	30m	30 △				4.0pØ	△	u81	
52▼#	MT0492	100m	700M§	800u	§J	25	16	5.0			1.0Ø	30m	50 △				4.0pØ	△	u81	
53#	BCW29	110m	150M§	1.1m	♦J	30	20	5.0	50m	100nØ	5.0Ø	10uØ	90 †				7.0p$	PE†	u56	A
54#	BCW30	110m	150M§	1.0m	♦J	30	20	5.0	50m	100nØ	5.0Ø	10uØ	150 †				7.0p$	PE†	u56	A
55	IT2604	120m	30M§△	685u	§S	60	45	6.0	30m	10nØ	5.0Ø	10uØ	100 †△				6.0pØ	DPLØ	u92	L
56	IT2605	120m	30M§△	685u	§S	60	45	6.0	30m	100nØ	5.0Ø	10uØ	40 †△				6.0pØ	DPLØ	u92	L
57#	MT0463	125m	300M§△	1.0m	§J	30	20	5.0		10n§	1.0Ø	10mØ	50 †△				8.0pØ	PE†	u81	B
58#	MT0461†	125m	350M§	1.0m	§J	60	50 *	6.0		10nØ	1.0Ø	10mØ	110 †				3.5p	PLØ	u81	B
59#	MT0462†	125m	350M§	1.0m	§J	50	40 *	6.0		10nØ	1.0Ø	10mØ	200 †				3.5p	PLØ	u81	B
60#	BF316	130m	700M§	1.0m	§J	40	35	4.0	15m		10Ø	1.0mØ	50 †				50f†	PL	TO72	
61	2N2185Ø	150m		1.3m	$S	30	30	30	50m	1.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ		R98	A
62	2N2186Ø	150m		1.3m	$S	30	30	30	50m	1.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ		R98	A
63	2N2187Ø	150m		1.3m	$S	30	30	30	50m	1.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ		R98	A
64	2N2278Ø	150m		1.3m	$S	15	15	15	50m	1.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ	△	R98	A
65	2N2279Ø	150m		1.3m	$S	15	15	15	50m	1.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ	△*	R98	A
66	2N2280Ø	150m		1.3m	$S	10	6.0	10	50m	3.0nØ	.50Ø	5.0mØ	10 †△				10pØ	△	R98	A
67	2N2281Ø	150m		1.3m	$S	10	6.0	10	50m	3.0nØ	.50Ø	5.0mØ	10 †△				10pØ	△*	R98	A
68#	2SA666	150m		1.5m	J♦	25	25	5.0	100m#	1.0u	5.0	2.0m	700 Ø†					PE	TO92	B
69#	2SA666A	150m		1.5m	J♦	45	45	5.0	100m#	1.0u	5.0	2.0m	700 Ø†					PE	TO92	B
70#	2SA721	150m		1.5m	J♦	35	35	5.0	100m#	100n	5.0	2.0m	1.0kØ†					PE	TO92	B
71#	2SA722	150m		1.5m	J♦	55	55	5.0	100m#	100n	5.0	2.0m	1.0k†					PE	TO92	B
72#	BFV34Ø	150m		1.1m	§S	15	10	15	100m	10n	.50Ø	1.0mØ	80 △				10pØ	PE	u34b	P
73#	BFV35Ø	150m		1.1m	§S	25	20	25	100m	10n	.50Ø	1.0mØ	40 △				10pØ	PE	u34b	P
74#	BFV36Ø	150m		1.1m	§S	40	35	40	100m	10n	.50Ø	1.0mØ	30 △				10pØ	PE	u34b	P
75#	PL1031	150m		1.0m	§J	60	40 *	5.0		20nØ	10Ø	1.0mØ	25 †△				8.0pØ	PE△	u50	E
76#	PL1032	150m		1.0m	§J	60	60 *	5.0		10nØ	10Ø	1.0mØ	40 †△				8.0pØ	PE△	u50	E
77#	PL1033	150m		1.0m	§J	60	40 *	5.0		20nØ	10Ø	1.0mØ	50 †△				8.0pØ	PE△	u50	E
78#	PL1034	150m		1.0m	§J	60	60 *	5.0		10nØ	10Ø	1.0mØ	100 †△				8.0pØ	PE△	u50	E
79#	PL1101	150m		1.0m	§J	25	20 *				.50Ø	10mØ	20 †△				5.0pØ	PE△	u50	E
80#	PL1102	150m		1.0m	§J	25	20 *				.50Ø	10mØ	40 †△				5.0pØ	PE△	u50	E
81#	PL1103	150m		1.0m	§J	25	20 *				1.0Ø	10mØ	15 †△				5.0pØ	PE△	u50	E
82#	PL1104	150m		1.0m	§J	25	20 *				1.0Ø	10mØ	30 †△				5.0pØ	PE△	u50	E
83	SA539	150m			§J	25	20		50m	10nØ	.50Ø	5.0mØ	10 †△				9.0pØ		TO18	
84	SA540	150m			§J	10	6.0		50m	10nØ	.50Ø	5.0mØ	10 †△				9.0pØ		TO18	
85	2N923	150m	800k△	833u	§	40	25	40	50m	50u	6.0Ø	1.0mØ	21	40ub	2.1k	75 Ø	20pØ	A	TO18	A
86	2N924	150m	800k△	833u	§	40	25	40	50m	50u	6.0Ø	1.0mØ	47	40ub	2.1k	75 Ø	20pØ	A	TO18	A
87	2N925	150m	800k△	833u	§	50	40	50	50m	50u	6.0Ø	1.0mØ	17	40ub	2.1k	75 Ø	20pØ	A	TO18	A
88	2N926	150m	800k△	833u	§	50	40	50	50m	50u	6.0Ø	1.0mØ	38	40u	2.1k	75 Ø	20pØ	A	TO18	A
89	2N927	150m	800k△	833u	§	70	60	70	50m	50u	6.0Ø	1.0mØ	15	40u	2.1k	75 Ø	20pØ	A	TO18	A
90	2N928	150m	800k△	833u	§	70	60	70	50m	50u	6.0Ø	1.0mØ	34	40u	2.1k	75 Ø	20pØ	A	TO18	A
91	2N2332	150m	1.0M	1.0m	§J	15	5.0	15	100m	50u							20pØ	A	TO18	A
92	2N2333	150m	1.0M	1.0m	§J	15	5.0	15	100m	50u							20pØ	A	TO18	A
93	2N2334	150m	1.0M	1.0m	§J	30	15	30	100m	50u							20pØ	A	TO18	A
94	2N2335	150m	1.0M	1.0m	§J	30	15	30	100m	50u							20pØ	A	TO18	A
95	2N2336	150m	1.0M	1.0m	§J	50	35	50	100m	50u							20pØ	A	TO18	A
96	2N2337	150m	1.0M	1.0m	§J	50	35	50	100m	50u							20pØ	A	TO18	A
97	2N2372	150m	1.0M	714u	§J	15	15	15	50m	50u	4.0Ø	25uØ	15 △				15pØ	AØ	TO18	A
98	2N2373	150m	1.0M	714u	§J	15	15	15	50m	50u	4.0Ø	25uØ	20 △				15pØ	AØ	TO18	A
99	2N858†	150m	5.0M§△	1.3m	§S	40	40	25	50m	100nØ	6.0Ø	1.0m	15 △				12pØ		TO18	A
100	2N859†	150m	6.0M§△	1.3m	§S	40	40	25	50m	100nØ	6.0Ø	1.0m	30 △				9.0pØ		TO18	A
101	2N2181Ø	150m	6.0M§△	1.3m	§S	25	25	25	50m	.01uØ	.50Ø	5.0mØ	10 †△				12pØ		TO1	
102	2N2182Ø	150m	6.0M§△	1.3m	§S	25	25	25	50m	.01uØ	.50Ø	5.0mØ	10 †△				12pØ		TO1	
103	2N2274Ø	150m	6.0M§△	1.3m	§S	25	25	25	50m	3.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ	△	R98	A
104	2N2275Ø	150m	6.0M§△	1.3m	§S	25	25	25	50m	3.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ	△*	R98	A
105	2N2276	150m	6.0M§△	1.3m	§S	15	10	10	50m	3.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ	△	R98	A
106	2N2277	150m	6.0M§△	1.3m	§S	15	10	10	50m	3.0nØ	.50Ø	5.0mØ	10 †△				9.0pØ	△*	R98	A
107	2N3317Ø	150m	6.4M§△	1.3m	§S	30	30	30	50m	1.0nØ	6.0Ø	1.0m	1.6				9.0pØ		R98	
108	2N860†	150m	6.5M§△	1.3m	§S	25	25	20	50m	100nØ	6.0Ø	1.0m	15 △				9.0pØ		TO18	A
109	SA313	150m	7.0M§△		§J	30	20		50m	10nØ			6.0 †△				6.0pØ	PAØ	TO5	
110	SA314	150m	7.0M§△		§J	30	15		50m	20nØ			8.0 †△				6.0pØ	PAØ	TO5	

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1	SA316	150m	7.0M§△		$J	30	10		50m	3.0nØ			10 †△				6.0pØ	PAØ	TO5		
2	SA413	150m	7.0M§△		$J	30	20		50m	10nØ			6.0 †△				6.0pØ	PAØ	TO18		
3	SA414	150m	7.0M§△		$J	30	15		50m	20nØ			8.0 †△				6.0pØ	PAØ	TO18		
4	SA416	150m	7.0M§△		$J	30	10		50m	3.0nØ			10 †△				6.0pØ	PAØ	TO18		
5	2N496	150m	7.2M§△	1.3m	$J	10	10		50m	100nØ	6.0Ø	1.0m	9.0 △	4.0uØb	100 Ø		12pØ	△	TO1	A	
6	JAN2N1119†	150m	7.2M§△	1.3m	$S	12	10 #	12		100nØ	.50Ø	15mØ	15 †△				9.0pØ	Ø	TO5	A	
7	2N2378	150m	7.2M§△	1.3m	$S	10	10	10	50m	100nØ	.50Ø	15mØ	15 †△				12pØ	△	TO18	A	
8	JAN2N2378	150m	7.2M§△	1.3m	$S	10	10	10		100n	.50Ø	15mØ	15 †△				12pØ		TO18	A	
9	2N861†	150m	7.5M§△	1.3m	$S	25	25	20	50m	100nØ	6.0Ø	1.0m	30 △				9.0pØ		TO18	A	
10	2N3318Ø	150m	7.6M§△	1.3m	$S	15	15	15	50m	1.0nØ	6.0Ø	1.0m	1.9				9.0pØ		R98		
11	2N495	150m	8.0M*△	1.2m	$J	25	25		50m	1.0u	6.0	1.0m	15 △	2.5ub	90		7.0p	A	TO1	A	
12	2N862†	150m	8.0M§△	1.3m	$S	15	15	10	50m	100nØ	6.0Ø	1.0m	20 △				9.0pØ		TO18	A	
13	JAN2N1118	150m	8.0M*△	1.3m	$A	25		20		1.0u	6.0	1.0m	15 △	2.5uØb	90 Ø		9.0pØ		TO5	A	
14	2N2377	150m	8.0M*△	1.3m	$S	25	25	10	50m	1.0uØ	6.0Ø	1.0m	15 △	25uØb	90 Ø		12pØ	△	TO18	A	
15	JAN2N2377	150m	8.0M*	1.3m	$S	25	25	10		1.0u	6.0Ø	1.0m	15 △	2.5ub	90 Ø		12pØ		TO18	A	
16	SA312	150m	8.0M§△		$J	30	10		50m	10nØ			10 †△				6.0pØ	PAØ	TO5		
17	SA315	150m	8.0M§△		$J	30	12		50m	20nØ			10 †△				6.0pØ	PAØ	TO5		
18	SA412	150m	8.0M§△		$J	30	10		50m	10nØ			10 †△				6.0pØ	PAØ	TO18		
19	SA415	150m	8.0M§△		$J	30	12		50m	20nØ			10 †△				6.0pØ	PAØ	TO18		
20	2N863†	150m	10M§△	1.3m	$S	15	15	10	50m	100nØ	6.0Ø	1.0m	40 △				9.0pØ		TO18	A	
21	SA310	150m	10M§△		$J	30	10		50m	10nØ			30 †△				6.0pØ	PAØ	TO5		
22	SA311	150m	10M§△		$J	30	6.0		50m	10nØ			15 †△				6.0pØ	PAØ	TO5		
23	SA410	150m	10M§△		$J	30	10		50m	10nØ			30 †△				6.0pØ	PAØ	TO18		
24	SA411	150m	10M§△		$J	30	6.0		50m	10nØ			15 †△				6.0pØ	PAØ	TO18		
25	2N3319Ø	150m	12M§△	1.3m	$S	10	6.0	10	50m	3.0n	6.0Ø	1.0m	3.0				10pØ		R98		
26	2N864†	150m	16M§△	1.3m	$S	6.0	6.0	6.0	50m	100nØ	6.0Ø	1.0m	25 △				9.0pØ		TO18	A	
27	2N1118A	150m	18M*	1.3m	$J	25	25	10	50m	1.0u	6.0Ø	1.0m	25	1.5ub	50		6.0p	A	TO5	A	
28	2N2165	150m	18M§	1.3m	$S	30		30		20nØ	6.0Ø	1.0m	25				6.0p	S	TO5	A	
29	2N2166	150m	18M§	1.3m	$S	15		15		20nØ	6.0Ø	1.0m	25				6.0p	S	TO5	A	
30	2N1119†	150m	20M§	1.3m	$	10	10	10	50m	100n	.50	15m	25 †				6.0p	PA	TO5	A	
31	2N2162Ø	150m	20M§	1.3m	$S	30		30		10nØ	3.0Ø	1.0m	35				6.0p	S	TO5	A	
32	2N2163Ø	150m	20M§	1.3m	$S	15		15		10nØ	3.0Ø	1.0m	35				6.0p	A	TO5	A	
33	2N1118	150m	21M*	1.3m	$	25	25	10	50m	1.0u	6.0Ø	1.0m	30	35u	1.4k	3.5	6.0p	PA	TO5	A	
34	2N865†	150m	24M§△	1.3m	$S	10	10	6.0	50m	100nØ	6.0Ø	1.0m	100 △				9.0pØ		TO18	A	
35#	BFV25	150m	30M§△	1.1m	§S	60	45	6.0	30m	50nØ	5.0Ø	1.0m	60 △				6.0pØ	PEØ	u34b	P	
36#	BFV26	150m	30M§△	1.1m	§S	60	45	6.0	30m	50nØ	5.0Ø	1.0m	150 △				6.0pØ	PEØ	u34b	P	
37	2N2167	150m	36M§	1.3m	$S	12		12		20nØ	6.0Ø	1.0m	38				6.0p	S	TO5	A	
38	2N2164Ø	150m	44M§	1.3m	$S	12		12		20nØ	3.0Ø	1.0m	40				6.0p	S	TO5	A	
39#	2SA429	150m	100M§		♦J	150	150 Ø	3.0	30m	1.0uØ	2.0Ø	2.0mØ	60 †				4.0p	PL	R67a	B	
40#	2SA628†	150m	100M§	1.5m	♦J	30	25	4.0	100m	1.0uØ	6.0Ø	1.0mØ	100 †					PE†	TO92	D	
41#	2SA628A†	150m	100M§	1.5m	♦J	60	60	4.0	100m	1.0uØ	6.0Ø	1.0mØ	100 †					PE†	TO92	D	
42▼#	2SA725	150m	100M§	1.5m	♦J	35	35	5.0	100m	100nØ	6.0Ø	1.0mØ	600 †					PEØ	TO92		
43▼#	2SA726	150m	100M§	1.5m	♦J	50	50	5.0	100m	100nØ	6.0Ø	1.0mØ	600 †					PEØ	TO92		
44▼#	2SA811	150m	100M§	1.5m	♦J	50	45	5.0	30	50nØ	3.0Ø	500uØ	135 †△					E	u56b		
45#	BFV30†	150m	140M§△	1.1m	§J	20	15	4.0	100m	50n§	1.0Ø	50mØ	15 △				7.0pØ	PE	u34b	P	
46#	BFV33	150m	140M§△	1.0m	§J	25	20	5.0	50m	1.0u	10Ø	10mØ	30 △				5.0pØ	D	u34b	P	
47#	BCW69	150m	150M§	1.5m	♦J	50	45	5.0	50m	100nØ	5.0	10u	90 †				7.0p$	PE	u56	A	
48#	BCW70	150m	150M§	1.5m	♦J	50	45	5.0	50m	100nØ	5.0	10u	150 †				7.0p$	PE	u56	A	
49#	BFV20	150m	150M§△	1.0m	§J	40	30	5.0	600m	50nØ	10Ø	150mØ	40 †△				10pØ	PE	u34b	P	
50#	BFV21	150m	150M§△	1.0m	§J	40	30	5.0	600m	50nØ	10Ø	150mØ	100 †△				10pØ	PE	u34b	P	
51#	BFV22	150m	150M§△	1.0m	§J	50	50	5.0	600m	50nØ	10Ø	1.0mØ	80 †△				10pØ	PE	u34b	P	
52#	2SA786	150m	180M§	1.5m	♦J	50	40	5.0	50m	1.0uØ	3.0Ø	10mØ	560 †Ø				6.5p	PE	TO106	A	
53#	2SA787	150m	180M§	1.5m	♦J	25	20	5.0	50m	1.0uØ	3.0Ø	10mØ	560 †Ø				6.5p	PE	TO106	A	
54▼#	2SA812	150m	180M§	1.5m	♦J	50	40	5.0	100	100nØ	6.0Ø	1.0mØ	60 †△					E	u56b		
55#	BCW61BA†	150m	180M§	1.4m	$J		32	5.0	100m	20n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	6.0pØ	PEØ	u56a	A	
56#	BCW61BB†	150m	180M§	1.4m	$J		32	5.0	100m	20n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	6.0pØ	PEØ	u56a	A	
57#	BCW61BC†	150m	180M§	1.4m	$J		32	5.0	100m	20n§	5.0Ø	2.0mØ	330	30u	4.5k	2.0	6.0pØ	PEØ	u56a	A	
58#	BCW61BD†	150m	180M§	1.4m	$J		32	5.0	100m	20n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	6.0pØ	PEØ	u56a	A	
59#	BCX71BG†	150m	180M§	1.4m	$J		45	5.0	100m	20n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	6.0pØ	PEØ	u56a	A	
60#	BCX71BH†	150m	180M§	1.4m	$J		45	5.0	100m	20n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	6.0pØ	PEØ	u56a	A	
61#	BCX71BJ†	150m	180M§	1.4m	$J		45	5.0	100m	20n§	5.0Ø	2.0mØ	330	30u	4.5k	2.0	6.0pØ	PEØ	u56a	A	
62#	BCX71BK†	150m	180M§	1.4m	$J		45	5.0	100m	20n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	6.0pØ	PEØ	u56a	A	
63#	2SA783	150m	200M§	1.5m	♦J	50	40	5.0	30m	1.0uØ	6.0Ø	1.0mØ	560 †Ø				3.0p	PE	TO106	A	
64#	2SA784	150m	200M§	1.5m	♦J	25	20	5.0	30m	1.0uØ	6.0Ø	1.0mØ	560 †Ø				3.0p	PE	TO106	A	
65▼#	2SA813	150m	200M§	1.5m	♦J	60	45	5.0	200	100nØ	1.0Ø	50mØ	50 †△					E	u56b		
66#	BFV31†	150m	350M§△	1.1m	§J	12	12	4.0	200m	150nØ	1.0Ø	30mØ	30 †△				8.0pØ	PE	u34b	P	
67#	BFV32†	150m	350M§△	1.1m	§J	10	10	3.5	200m	200nØ	1.0Ø	30mØ	20 †△				8.0pØ	PE	u34b	P	
68#	BFV29†	150m	400M§△	1.1m	§S	20	15	5.0	200m	50n§	.50Ø	10mØ	30 †△				4.5p	PE	u34b	P	
69#	BF516	150m	850M§		§	40	35	6.0	20m	50n	10Ø	3.0mØ	25 †△				300ft	PL	TO72	A	
70#	BF272	150m	1.0G§		§J	40	35	4.0	20m	50u	10Ø	3.0mØ	30 †				350ft	PL	TO72		
71#	BCW88	167m§	100M§△	1.3m	§J	45	45	5.0	100m	20nØ	5.0Ø	2.0mØ	250 †△	30u	4.5k	2.0	7.0p$Ø	PEØ	u122	A	
72#	BFR38	175m	850M§		§J	40	35	3.0	20m	50u	10Ø	3.0mØ	25 †				300ft	PE	TO72		
73#	MT0404	180m	150M§△	1.4m	$J	25	25 *	4.0		100nØ	5.0Ø	50mØ	30 †△				12pØ	PL	u81	B	
74#	MT0404-1	180m	200M§△	1.4m	$J	40	30 *	5.0		50n§	1.0Ø	10mØ	20 †△				10pØ	PL	u81	B	
75#	MT0404-2	180m	200M§△	1.4m	$J	40	30 *	5.0		50n§	1.0Ø	10mØ	40 †△				10pØ	PL	u81	B	
76	2N4248	200m		2.0m	♦J	40	40	5.0	100m	10n	5.0Ø	1.0mØ	50 △				6.0p		R124b	A	
77	2N4249	200m		2.0m	♦J	60	60	5.0	100m	10nØ	5.0Ø	1.0mØ	100 △	40uØ	17kØ	10 Ø	6.0pØ	Ø	R124b	A	
78	2N4250	200m		2.0m	♦J	40	40	5.0	100m	10n	5.0Ø	1.0mØ	250 △	50uØ	20kØ	10 Ø	6.0pØ	Ø	R124b	A	
79	2N4250A	200m		2.0m	♦J	60	60	5.0	100m	10nØ	5.0Ø	1.0mØ	250 △	50uØ	20kØ	10 Ø	6.0pØ	Ø	R124b	A	
80#	BC251	200m		2.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	125 △*					PEØ	X64	A	
81#	BC252	200m		2.0m	♦J	20	20	5.0	100m	50n	5.0Ø	2.0mØ	125 △*					PEØ	X64	A	
82#	BC253	200m		2.0m	♦J	20	20	5.0	100m	50n	5.0Ø	2.0mØ	125 △*					PEØ	X64	A	
83	MM4261H	200m		1.1m	§J	15	15	4.5	30m								2.5pØ	△	TO72	DR	
84#	BC153	200m	40 §△	2.0m	♦J	40	40	5.0		500p	5.0Ø	1.0mØ	135 †#				6.0pØ	DPLØ	R97a		
85	2N2370	200m	1.0M	1.1m	§J	15	15	15	50m	50u	4.0Ø	25mØ	15 △				15pØ	AØ	TO5	A	
86	2N2371	200m	1.0M	1.1m	§J	15	15	15	50m	50u	4.0Ø	25mØ	20 △				15pØ	AØ	TO5	A	
87	TD400*	200m	20M§△	1.6m	$J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	20		10pØ	PL†	L17m		
88	TD401*	200m	20M§△	1.6m	$J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	20		10pØ	PL†	L17m		
89	TD402*	200m	20M§△	1.6m	$J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	20		10pØ	PL†	L17m		
90	TD500*	200m	20M§△	1.6m	$J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	32 Ø		10pØ	PL*	L17w		
91	TD501*	200m	20M§△	1.6m	$J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	32 Ø		10pØ	PL*	L17w		
92	TD502*	200m	20M§△	1.6m	$J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	32 Ø		10pØ	PL†	L17w		
93	TD550*	200m	20M§△	1.6m	$J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	32 Ø		10pØ	PL*	L17w		
94	2N5138	200m	30M§△	2.0m	♦J	30	30	5.0	100m	50nØ	10Ø	1.0mØ	40 △				7.0p$		TO106	A	
95#	ME0411	200m	30M§△	1.6m	$J	60	45 *	6.0		10nØ	6.0Ø	1.0mØ	80 △	1.0uØb	35 Ø	10 Ø	5.0pØ	PEØ	R110c	A	
96#	ME0413	200m	30M§△	1.6m	$J	40	40 *	5.0		50nØ	6.0Ø	1.0mØ	50 △	1.0uØb	40 Ø	10 Ø	8.0pØ	PEØ	R110c	A	
97#	2SA549AH†	200m	40M△§		§J						1.0Ø	10mØ	30 △†				10pØ	D	TO18	A	
98#	2SA617K†	200m	40M§		§J						3.0Ø	15mØ	80 †				10pØ	PL	TO18	A	
99#	2SA618K†	200m	40M§		§J						3.0Ø	15mØ	80 †				10pØ	PL	TO18	A	
100#	BC154	200m	40M§△	2.0m	♦J	40	40	5.0		500p	5.0Ø	1.0mØ	330 †#				6.0pØ	DPLØ	R97a		
101#	BC400	200m	40M§	5.0m	♦	90	80	6.0	50m	30n	5.0Ø	1.0mØ	100 †△				4.0p	PL	TO106	A	
102#	ME0412	200m	40M§△	1.6m	$J	60	45 *	6.0		10nØ	6.0Ø	1.0mØ	150 △	1.0uØb	35 Ø	10 Ø	5.0pØ	PEØ	R110c	A	
103#	2SA778AK†	200m	50M§	2.0m	♦J						3.0Ø	15mØ	30 △						u132	B	
104#	BSS37	200m	50M§△	2.0m	♦J	110	100	6.0	100m	10u							5.0p$	PE	MM13	F	
105	2N4964	200m	60M§△	2.0m	♦S	50	40	5.0	100m	25nØ	5.0Ø	1.0mØ	40 △	1.0ub	32 Ø	10 Ø	8.0p$	Ø	TO106	A	
106	2N4965	200m	60M§△	2.0m	♦S	50	40	5.0	100m	25nØ	5.0Ø	1.0mØ	100 △	1.0ub	32 Ø	10 Ø	8.0p$	Ø	TO106	A	
107#	2SC857K†	200m	60M△§		§J						6.0Ø	10mØ	30 △†				10pØ	PL	TO18	A	
108	EN722	200m	60M§△	2.0m	♦J	50	35	5.0		1.0uØ	10Ø	150mØ	30 †#△	1.0uØb	35 Ø	8.0 Ø	45pØ	DPE	TO106	A	
109#	ME0414	200m	60M§	1.6m	$J	25	20 *	4.0		100nØ	5.0Ø	1.0mØ	200	12u	15k	20	7.0p	PEØ	R110c	A	
110#	BC225	200m	70M§	2.0m	♥J	40	40	5.0	100m	500nØ	5.0Ø	10mØ	90 †△	15m	6.1k	2.4	400f	DPL	TO106		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 DERATE IN FREE AIR W/°C	fab (Hz)	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1#	2SA672	200m	80M§		♦J	50	50	4.0	200m	500mØ	12Ø	2.0mØ	60 Δ†				22pØ	PE†			
2	2N5143†	200m	100M§Δ	2.0m	♦J	20	20	4.0	500m	50n§	10Ø	300mØ	15 †#Δ				10p$		TO106	A	
3#	ME0475	200m	100M§Δ	1.6m	$J	75	75 *	4.0		500nØ	10Ø	10mØ	20 †Δ				6.0pØ	PL	R110c	A	
4#	BCW29R	200m	150M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	90 †				7.0p$Ø	PE†	u56	C	
5#	BCW30R	200m	150M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	150 †				7.0p$Ø	PE†	u56	C	
6#	BCW56A	200m#	150M§	2.0m	$J	80	60	6.0	100m	10u	5.0Ø	2.0mØ	125 Δ	40u	2.7k	2.5	4.5p$	PEØ	MM13	F	
7#	BCW57A	200m#	150M§	2.0m	$J	50	45	6.0	100m	10u	5.0Ø	2.0mØ	125 Δ	40u	2.7k	2.5	4.5p$	PEØ	MM13	F	
8#	BCW57B	200m#	150M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	240 Δ	60u	3.5k	3.5	4.5p$	PE	MM13	F	
9#	BCW58A	200m#	150M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	125 Δ	40u	2.7k	2.5	4.5p$	PEØ	MM13	F	
10#	BCW58B	200m#	150M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	240 Δ	60u	3.5k	3.5	4.5p$	PEØ	MM13	F	
11#	BCW59A	200m#	150M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	125 Δ	40u	2.7k	2.5	4.5p$	PEØ	MM13	F	
12#	BCW59B	200m#	150M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	240 Δ	60u	3.5k	3.5	4.5p$	PEØ	MM13	F	
13#	BCW69R	200m	150M§	1.6m	$J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	90 †				7.0p$Ø	PE†	u56	C	
14#	BCW70R	200m	150M§	1.6m	$J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	150 †				7.0p$Ø	PE†	u56	C	
15	EN2907†	200m	150M§Δ	2.0m	♦J	60	40	5.0	600m	50nØ	10Ø	150mØ	100 †#Δ				8.0pØ	DPE	TO106	A	
16	EN3504†	200m	150MΔ	2.0m	♦J	45	45	5.0	600m	10n§	10Ø	10mØ	135 Δ	1.2m	2.3k	15	8.0pØ	DPEØ	TO106	A	
17#	BC205	200m	160M§	5.0m	♦	25	20	5.0		50n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO106	A	
18#	BC206	200m	160M§	5.0m	♦J	25	20	5.0		50n	5.0Ø	2.0mØ	200 †				4.0p	PE	TO106		
19	2N4971†	200m	200M§Δ	2.0m	♦S	50	40	5.0	500m	25n§	10Ø	150mØ	120 †#				8.0p$		TO106	A	
20	2N4972†	200m	200M§Δ	2.0m	♦S	50	40	5.0	500m	25n§	10Ø	150mØ	300 †#				8.0p$		TO106	A	
21#	2SA493	200m	200M§		♦J	50	50		50m	100n	6.0Ø	2.0 Ø	200 †				10pØ	PE	R67a	B	
22#	2SA495	200m	200M§	2.0m	♦J	25	20	5.0	100m	1.0uØ	1.0Ø	10mØ	80 †				4.0p	PE	R67a	B	
23#	2SA495G†	200m	200M§	2.0m	♦J	25	20	5.0	100m	1.0uØ	1.0Ø	10mØ	40 †Δ*				4.0p	PE†	R67a	B	
24#	2SA530H†	200m	200M§Δ	1.3m	§J	50	35	5.0	100m	1.0uØ	1.0Ø	10mØ	120 Ø				8.0pØ	PE	TO18	A	
25	EN3250	200m	200M§Δ	2.0m	♦J	50	40	5.0	100m	50n#	1.0Ø	10mØ	50 †Δ#	40uØ	6.0kØ		6.0p	PEØ	TO106	A	
26#	PN71	200m	200M§	2.0m	♦J	45	45	5.0	200m	50nØ	1.0Ø	10mØ	100 †Δ				6.0pØ	PLØ	TO106	A	
27#	PN72	200m	200M§	2.0m	♦J	25	25	5.0	200m	50nØ	1.0Ø	10mØ	50 †Δ				6.0pØ	PL	TO106	A	
28	TD2905*	200m	200M§Δ	1.6m	$J	60	30	5.0	500m	20nØ	10Ø	150mØ	100 †Δ				8.0pØ	PLΔ	L17m		
29#	PN70	200m	250M§	2.0m	♦J	50	40	5.0	200m	50nØ	1.0Ø	10mØ	50 †Δ				6.0pØ	PL	TO106	A	
30	MMCM2907†	200m	260M§	1.1m	§J	60	40	5.0	600m	50nØ	10Ø	1.0mØ	50 †Δ				4.8p	AN	u86	C	
31	2N3307	200m	300M§Δ	1.1m	§J	40	35	3.0	50m	10nØ	10Ø	2.0mØ	40 Δ				1.3pØ	Ø	R96	G	
32	2N3308	200m	300M§Δ	1.1m	§J	30	25	3.0	50m	10nØ	10Ø	2.0mØ	25 Δ				1.6pØ	Ø	R96	G	
33	2N5139†	200m	300M§Δ	2.0m	♦J	20	20	5.0	100m	50n§'	10Ø	1.0mØ	40 †Δ				5.0p$		TO106	A	
34	2N5141†	200m	300M§Δ	2.0m	♦J	6.0	6.0	4.0	100m	100n§	2.0	1.0mØ	15 †Δ				7.0p$Ø		TO106	A	
35	MPS3639†	200m	300M§Δ	2.0m	♦J	6.0	6.0	4.0	80m	10n§	1.0Ø	50mØ	20 †#Δ				3.5pØ	E	X20b		
36	2N4121†	200m	400M§Δ	2.0m	♦J	40	40	5.0	100m	25n§	10Ø	1.0mØ	50 †Δ	24uØ	8.0	3.0	4.5p$	Ø	R110	A	
37	2N4389†	200m	400M§Δ	2.0m	♦J	12	12	4.0	100m	100n#	1.0Ø	10mØ	180 †#				6.0pØ		R124b	A	
38	2N4916†	200m	400M§Δ	2.0m	♦J	30	30	5.0	100m	25n#	1.0Ø	1.0mØ	60 †Δ				4.5p$	Ø	R124b	A	
39	2N5140†	200m	400M§Δ	2.0m	♦J	5.0	5.0	4.0	50m	50n§	1.0Ø	10mØ	140 †#Ø				5.0p$		TO106	A	
40	2N4122†	200m	450M§Δ	2.0m	♦J	40	40	5.0	100m	25n§	10Ø	1.0mØ	150 †Δ	40uØ	12	4.0	4.5p$	Ø	R110	A	
41	2N4917†	200m	450M§Δ	2.0m	♦J	30	30	5.0	100m	25n#	1.0Ø	1.0mØ	150 †Δ				4.5p$	Ø	R124b	AØ	
42	2N3639†	200m	500M§Δ	2.0m	♦J	6.0	6.0	4.0	80m	50n§	1.0Ø	50mØ	20 †Δ#				3.5pØ		R110	A	
43	2N3640†	200m	500M§Δ	2.0m	♦J	12	12	4.0	80m	50n§	1.0Ø	50mØ	20 †Δ#				3.5pØ		R110	A	
44	2N4257†	200m	500M§Δ	2.0m	♦J	6.0	6.0	4.5	50m	10n	3.0Ø	10mØ	30 †Δ				3.0p$Ø		R110	A	
45	2N4257A†	200m	500M§Δ	2.0m	♦J	6.0	6.0	4.5	50m	10n§	3.0Ø	10mØ	30 †Δ				3.0p$Ø		R124b	A	
46	TP4257†	200m	500M§Δ	2.0m	♦J	6.0	6.0	4.5	50m	10n§	.50Ø	1.0mØ	15 †Δ				3.0p$Ø	PL	X55a	A	
47	2N5055†	200m	550M§Δ	2.0m	♦J	12	12	4.5	100m	50n§	.50Ø	1.0mØ	12 †Δ				4.5p$		R124b	A	
48#	2SA781K†	200m	550M§	2.0m	♦J						.50Ø	30mØ	200 †Ø*					PE	u132	B	
49	2N4258†	200m	700M§Δ	2.0m	♦J	12	12	4.5	50m	10n	3.0Ø	10mØ	30 †Δ				3.0p$Ø		R110	A	
50	2N4258A†	200m	700M§Δ	2.0m	♦J	12	12	4.5	50m	10n§	3.0Ø	10mØ	30 †Δ				3.0p$Ø		R124b	A	
51	2N4313†	200m	700M§Δ	2.0m	♦J	12	12	4.5	100m	50nØ	.50Ø	30mØ	30 †Δ#				4.5p$		R124b	A	
52	TP4258†	200m	700M§Δ	2.0m	♦J	12	12	4.5	50m	10n§	.50Ø	1.0mØ	15 †Δ				3.0p$Ø	PL	X55a	A	
53	2N4958	200m	1.0G§Δ	1.1m	§S	30	30	3.0	30m	100nØ	10Ø	2.0mØ	20 Δ				800f$	Ø	TO72	G	
54	2N4959	200m	1.0G§Δ	1.1m	§S	30	30	3.0	30m	100nØ	10Ø	2.0mØ	20 Δ				800f$	Ø	TO72	G	
55	2N4957	200m	1.2G§Δ	1.1m	§S	30	30	3.0	30m	100nØ	10Ø	2.0mØ	20 Δ				800f$	Ø	TO72	G	
56	JAN2N4957	200m	1.2G§Δ	1.1m	§A	30	30	3.0	30m	100nØ	10Ø	5.0mØ	30 †Δ				800f$Ø	Ø	TO72	GØ	
57	2N5829	200m	1.2G§Δ	1.1m	§S	30	30	3.0	30m	100nØ	10Ø	2.0mØ	20 Δ				800f$Ø	Ø	TO72	G	
58	EN2894A†	200m	1.2G§	2.0m	♦J	12	12	4.5		50n§	1.0Ø	100mØ	30 †#Δ				4.5pØ	DPE	TO106	A	
59	MD4957*	200m	1.5G§	1.1m	§J	30	30	3.0	30m	100nØ	10Ø	2.0mØ	20 Δ				400f$	ANØ	L17k		
60	2N4260	200m	1.6G§Δ	1.1m	§S	15	15	4.5	30m	5.0n#	1.0Ø	1.0mØ	25 †Δ				2.5p$Ø	Δ	TO72	G	
61	2N4261	200m	2.0G§Δ	1.1m	§S	15	15	4.5	30m	5.0n#	1.0Ø	1.0mØ	25 †Δ				2.5p$Ø	Δ	TO72	G	
62	MM4049	200m	4.0G§Δ	1.1m	§J	15	10	4.5	30m	10nØ	2.0Ø	25mØ	80 †Ø				1.2pØ	AN	TO72	G	
63#	BSV96	220m#	75M§	2.2m	$J	30	30	5.0	300m	100n§	2.0Ø	150mØ	100 †Δ				10p$	PEΔ	MM13	F	
64#	BSV97	220m#	75M§	2.2m	$J	30	30	5.0	300m	100n§	2.0Ø	150mØ	40 †Δ				10p$	PEΔ	MM13	F	
65#	BSV98	220m#	75M§	2.2m	$J	30	30	5.0	300m	100n§	2.0Ø	150mØ	30 †Δ				10p$	PEΔ	MM13	F	
66#	BC257	220m	130M§	2.2m	♦J		45	5.0	100m	100n§	5.0Ø	2.0mØ	260 Ø*	50uØ	4.5kØ	3.0pØ	6.0p$	PE	TO92	A	
67#	BC258	220m	130M§	2.2m	♦J		25	5.0	100m	100n§	5.0Ø	2.0mØ	500 Ø*	70uØ	8.0kØ	3.5 Ø	6.0p$	PE	TO92	A	
68#	BC259	220m	130M§	2.2m	♦J		20	5.0	100m	100n§	5.0Ø	2.0mØ	500 Ø*	70uØ	8.0kØ	3.5 Ø	6.0p$	PEØ	TO92	A	
69	MMT71	225m		2.0m	†J	25	20	4.0	50m	50nØ	5.0Ø	2.0mØ	150 †Δ				2.0p	ANØ	u43	C	
70	MMT75†	225m		2.0m	†J	30	20	5.0	200m	100nØ	1.0Ø	50mØ	20 †Δ				5.0pØ	ANØ	u43	C	
71	MMT3798	225m	40M§Δ	2.0m	†J	60	60	3.0	50m	50nØ	10Ø	1.0mØ	275	18u	8.0k	2.0	4.0pØ	ANØ	u43	D	
72	MMT3799	225m	40M§Δ	2.0m	†J	60	60	3.0	50m	50nØ	10Ø	1.0mØ	475	30u	16k	4.0	4.0pØ	ANØ	u43	D	
73#	BCW62	225m	200M§Δ	1.8m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0nØ	60 Δ				5.0p	PE†	u94	D	
74#	BCW62A	225m	200M§Δ	1.8m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0nØ	100 Δ				5.0p	PE†	u94	D	
75#	BCW62B	225m	200M§Δ	1.8m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0nØ	200 Δ				5.0p	PE†	u94	D	
76#	BCW63	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	80 Δ				5.0p	PE†	u94	D	
77#	BCW63A	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	100 Δ				5.0p	PE†	u94	D	
78#	BCW63B	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	200 Δ				5.0p	PE†	u94	D	
79#	BCW63C	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	350 Δ				5.0p	PE†	u94	D	
80#	BCW64	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	140 Δ				5.0p	PE†	u94	D	
81#	BCW64A	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	100 Δ				5.0p	PE†	u94	D	
82#	BCW64B	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	200 Δ				5.0p	PE†	u94	D	
83#	BCW64C	225m	200M§Δ	1.8m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0nØ	350 Δ				5.0p	PE†	u94	D	
84	MMT3905†	225m	200M§Δ	2.0m	†J	40	40	5.0	200m	50nØ	1.0Ø	10mØ	50 †Δ	15u	4.0k	2.0	5.0pØ	ANØ	u23c	F	
85	MMT3906†	225m	250M§Δ	2.0m	†J	40	40	5.0	200m	50n	1.0Ø	10mØ	100 †Δ	15u	4.0k	2.0	5.0pØ	ANØ	u23c	F	
86♦	MMT2907†	225m	340M§	1.8m	$J	60	40 *	5.0	300m	50nØ	10Ø	1.0mØ	50 †Δ#				4.8p	ANT	u43a	C	
87	MMT73†	225m	400M§Δ	2.0m	†J		8.0	4.0	200m	100n	1.0Ø	10mØ	30 †Δ				5.0pØ	AN	u43	C	
88	MMT3546†	225m	700M§Δ	2.0m	†J	15	12	4.5	250m	100nØ	1.0Ø	10mØ	30 †Δ#				6.0pØ	AN	u43	C	
89#	BFR99	225m	2.3G§	1.2	§J	30	25	3.0	50m	50n	10Ø	10mØ	25 †Δ				1.1p	PE	TO72	A	
90	MMT808	225m	2.5G§	2.0m	†J	8.0	5.0			10mΔ	1.0Ø	1.0uØ	65 †				420f	ANΔ	u43	C	
91	MMT809	225m	2.5G§	2.0m	†J	8.0	5.0			10nΔ	1.0Ø	10uØ	70 †				470f	ANØ	u43	C	
92▼#	BCY29	230m*	500k	2.2m	$J	60	60	30	50m	100mØ			25	30u	100	3.0	45p	A	TO5		
93	2N935	250m		1.8m	$S	50	40	20	50m	100n	50Ø	100uΔ	9.0 †Δ						TO18	A	
94	2N936	250m		1.8m	$S	50	35	20	50m	100n	50Ø	100uΔ	18 †Δ						TO18	A	
95	2N937	250m		1.8m	$S	50	30	20	50m	100n	50Ø	100uΔ	36 †Δ						TO18	A	
96	2N3342†	250m		1.6m	§S	20	8.0	20	50m	20nØ	1.0Ø	5.0mØ	30 †Δ				10pØ		TO5	A	
97#	2SA539	250m		2.5m	♦J	60	45	5.0	200m	200nØ	10Ø	10mØ	40 †Δ						TO92	B	
98#	2SA545	250m			$J	70	60	5.0	200m	100n	1.0Ø	50mØ	80 †					PE	TO92	B	
99#	2SA564	250m		2.5m	♦J	25	25	5.0	50m	1.0uØ	5.0	2.0m	250 †					PE	TO92	B	
100#	2SA564A	250m		2.5m	♦J	45	45	5.0	50m	1.0uØ	5.0	2.0m	250 †					PE	TO92	B	
101#	BC224	250m		2.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	150 Δ					PE†	TO92	B	
102#	SC256	250m		2.0m	$A	70	64	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †Δ					DPE	u29	A	
103#	SC256A	250m		2.0m	$A	70	64	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †Δ					DPE	u29	A	
104#	SC256B	250m		2.0m	$A	70	64	5.0	100m	100nØ	5.0Ø	2.0mØ	240 †Δ					DPE	u29	A	
105	2N1275	250m	100kΔ	1.8m	$A	100	80	60	50m	1.0uØ	50Ø	1.0mØ	9.0 †Δ				110pØ		TO5	A	
106	2N3401Ø	250m	100kΔ	2.0m	§S	25	25	25	100m	100nØ	5.0Ø	1.0mØ	4.0 Δ				15pØ	Δ	TO5	A	
107	2N1034	250m	200k	1.8m	$J	50	40	20	50m	1.0uØ	6.0	1.0mØ	15	15u	900		70p	FA	TO5	A	
108	2N1655	250m	200k	1.8m	$J	125	100	125	50m	1.0uØ	.50Ø	1.0mØ	15 †	11u	1.5k	7.5	50p	FAΔ	TO5	A	
109	2N1654	250m	250k	1.8m	$J	100	80	100	50m	1.0uØ	.50Ø	1.0mØ	30 †	11u	1.5k	7.5	50p	FAΔ	TO5	A	
110	2N1656	250m	250k	1.8m	$J	125	100	125	50m	1.0uØ	.50Ø	1.0mØ	30 †	11u	1.5k	7.5	50p	FAΔ	TO5	A	

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#LEAD CODE
1	2N1035	250m	300k	1.8m	$J	50	50	20	50m	1.0uØ	6.0	1.0mØ	30	40u	1.7k		70p	FA	TO5	A
2	2N1037	250m	300k	1.8m	$J	50	35	20	50m	1.0uØ	6.0Ø	1.0mØ	25	20u	1.4k		70p	FA	TO5	A
3	2N1623	250m	300k	1.8m	$J	50	20	20	50m	1.0uØ	6.0Ø	1.0mØ	25 †	35u	1.0k		70p	FA△	TO5	A
4	2N1036	250m	500k	1.8m	$J	50	30	20	50m	1.0uØ	6.0	1.0mØ	60	50u	2.5k		70p	FA	TO5	A
5	2N1643	250m	700k	1.8m	$J	25	25	20	50m	1.0nØ	6.0Ø	1.0mØ	18	35ub			50p	A	TO5	A
6	2N2002	250m	800k	1.6m	§J	30	5.0	30	100m	1.0n	6.0	1.0m					20pØ	A	TO5	A
7	2N2003	250m	800k	1.6m	§J	30	5.0	30	100m	3.0n	6.0	1.0m					20pØ	A	TO5	A
8	2N2004	250m	800k	1.6m	§J	50	15	50	100m	50u	6.0Ø	1.0mØ	12 †△				8.0p	A	TO5	A
9	2N2005	250m	800k	1.6m	§J	50	15	50	100m	50u	6.0	1.0m					10pØ	A	TO5	A
10	2N2006	250m	800k	1.6m	§J	60	35	60	100m	50u	6.0	1.0m					10pØ		TO5	A
11	2N2007	250m	800k	1.6m	§J	60	35	60	100m	5.0n	6.0	1.0m					10pØ	A	TO5	A
12	2N938	250m	1.0M△	1.6m	§S	40	35	40	100m	25nØ	6.0	1.0m	9.0 △						TO18	A
13	2N943Ø	250m	1.0M△	1.6m	§S	40	18	40	50m	5.0nØ	.50Ø	100u△	10 †△				14pØ		TO18	A
14	2N944Ø	250m	1.0M△	1.6m	§S	40	18	40	50m	5.0nØ	6.0	1.0m	25 △				14pØ		TO18	A
15	2N945Ø	250m	1.0M△	1.6m	§S	50	50	50	50m	5.0nØ	6.0	1.0m	25 △				14pØ		TO18	A
16	2N946Ø	250m	1.0M△	1.6m	§S	80	80	80	50m	5.0nØ	6.0	1.0m	25 △				14pØ		TO18	A
17	2N1024	250m	1.0M△	1.6m	§J	18	15	18	100m	25nØ	6.0	1.0m	9.0 △						TO5	A
18	2N1025	250m	1.0M△	1.6m	§J	40	35	40	100m	25nØ	6.0	1.0m	9.0 △						TO5	A
19	JAN2N1025	250m	1.0M△	1.4m	§A	40	35	40		25nØ	6.0	1.0m	9.0 △	2.5uØb	75 Ø	20 Ø	12pØ		TO5	A
20	JAN2N1025M	250m	1.0M△	1.6m	§S	40	35	40		25nØ	6.0	1.0m	9.0 △	2.5uØb	75 Ø	20 Ø	12pØ		TO5	A
21	2N1474	250m	1.0M△	1.6m	§J	60	60	60	100m	50nØ	6.0	1.0m	12 △						TO5	A
22	2N1475	250m	1.0M△	1.6m	§J	60	60	60	100m	50nØ	6.0	1.0m	36 △						TO5	A
23	2N1476	250m	1.0M△	1.6m	§J	100	100	100	100m	200nØ	6.0	1.0m	12 △						TO5	A
24	2N1919Ø	250m	1.0M△	1.6m	§S	40	18	40	50m		6.0	1.0m					7.0p	A△	TO5	A
25	2N1920Ø	250m	1.0M△	1.6m	§S	40	18	40	50m		6.0	1.0m					7.0p	A△	TO5	A
26	2N1921Ø	250m	1.0M△	1.6m	§S	50	50	50	50m		6.0	1.0m					7.0p	A△	TO5	A
27	2N1922Ø	250m	1.0M△	1.6m	§S	80	80	80	50m		6.0	1.0m					7.0p	A△	TO5	A
28#	BCZ10	250m	1.0M	2.0m	$J	25	25	20	50m	100nØ	6.0Ø	1.0mØ	20				45p$	Ø	R8	F
29#	BCZ12	250m	1.0M	2.0m	$J	60	60	30	50m	100nØ	6.0Ø	1.0mØ	15				40p$	Ø	R8	F
30#	BCY30	250m	1.2M§	2.0m	$J	64	64	45	100m	50nØ	6.0Ø	1.0mØ	25	17u	1.1k	3.0		A	TO5	A
31#	OC200	250m	1.2M§	2.0m	$J	30	25	20	50m	500n	6.0Ø	1.0mØ	28	24u	900	3.0		Ø	R8	
32#	OC203	250m	1.2M§	2.0m	$J	60	50	30	50m	1.5u	6.0Ø	1.0mØ	20					Ø	R8	
33#	BCY33	250m	1.5M§	2.0m	$J	32	32	16	100m	50nØ	6.0Ø	1.0mØ	25	17u	1.1k	3.0		A	TO5	A
34#	BCZ11	250m	1.5M	2.0m	$J	25	25	20	50m	100nØ	6.0Ø	1.0mØ	35				50p$	Ø	R8	F
35#	BCY31	250m	1.7M§	2.0m	$J	64	64	45	100m	50nØ	6.0Ø	1.0mØ	35	25u	1.4k	6.0		A	TO5	A
36	2N939	250m	2.0M△	1.6m	§S	40	35	40	100m	25nØ	6.0	1.0m	18 △						TO18	A
37	2N940	250m	2.0M△	1.6m	§S	40	35	40	100m	25nØ	6.0	1.0m	36 △						TO18	A
38	2N1026	250m	2.0M△	1.6m	§J	40	35	40	100m	25nØ	6.0	1.0m	18 △						TO5	A
39	JAN2N1026	250m	2.0M△	1.4m	§A	40	35	40		25nØ	6.0	1.0m	18 △	2.5uØb	75 Ø	20 Ø	12pØ		TO5	A
40	JAN2N1026M	250m	2.0M△	1.4m	§S	40	35	40		25nØ	6.0	1.0m	18 △	2.5uØb	75 Ø	20 Ø	12pØ		TO5	
41	2N1220	250m	2.0M△	1.6m	§J	30	25	20	100m	100nØ	.25Ø	5.0mØ	9.0 †△				18pØ	A	TO5	A
42	2N1222	250m	2.0M△	1.7m	§J	30	25	10	100m	10uØ	6.0Ø	1.0m	9.0 △				18pØ	A	TO5	A
43	2N1223	250m	2.0M	1.7m	§J	40	40	10	100m	10uØ	6.0Ø	1.0m	6.0 △				15p	A	TO5	A
44	2N1469	250m	2.0M△	1.6m	§J	40	35	40	100m	25nØ	6.0	1.0m	36 △						TO5	A
45	JAN2N1469	250m	2.0M△	1.4m	§A	40	35	40		25nØ	6.0	1.0m	36 △	2.5uØb	75 Ø	20 Ø	12pØ		TO5	A
46	JAN2N1469M	250m	2.0M△	1.4m	§S	40	35	40		25nØ	6.0	1.0m	36 △	2.5uØb	75 Ø	20 Ø	12pØ		TO5	A
47	2N1474A	250m	2.0M△	1.6m	§J	60	60	60	100m	50nØ	6.0	1.0m	18 △						TO5	A
48	2N1917Ø	250m	2.0M△	1.7m	§S	25	8.0	25	50m	2.5n	6.0	1.1m	50				7.0p	A△	TO5	A
49	2N3343Ø	250m	2.0M§△	1.7m	§S	25	8.0	25	50m	3nØ	.50Ø	.25mØ	20 †△				25pØ	△	TO5	A
50	2N3344Ø	250m	2.0M§△	1.7m	§S	30	30	30	50m	2nØ	.50Ø	1.0mØ	25 †△				25pØ	△	TO5	A
51	2N3345Ø	250m	2.0M§△	1.7m	§S	50	50	50	50m	5nØ	.50Ø	1.0mØ	15 †△				25pØ	△	TO5	A
52	2N3346Ø	250m	2.0M§△	1.7m	§S	50	50	50	50m	5nØ	.50Ø	1.0mØ	25 †△				25pØ	△	TO5	A
53#	BCY34	250m	2.4M§	2.0m	$J	32	32	16	100m	.05uØ	6.0Ø	1.0mØ	35	25u	1.4k	6.0		A	TO5	A
54#	BCY32	250m	2.5M§	2.0m	$J	64	64	32	100m	.05uØ	6.0Ø	1.0mØ	55	30u	1.7k	5.0		A	TO5	A
55#	OC201	250m	3.2M§	2.0m	$J	25	20	20	50m	.50u	6.0Ø	1.0mØ	40	80uØ	2.5kØ	7 Ø		Ø	R8	
56#	OC202	250m	3.2M§	2.0m	$J	15	10	10	50m	.50u	6.0Ø	1.0mØ	70	42u	2.1k	6.0		Ø	R8	
57	2N1027	250m	4.0M△	1.6m	§J	18	15	18	100m	25nØ	6.0	1.0m	18 △						TO5	A
58	2N1219	250m	5.0M△	1.7m	§J	30	25	20	100m	.10uØ	.25Ø	5.0mØ	18 †△				15pØ	A	TO5	A
59	2N1221	250m	5.0M△	1.7m	§J	30	25	10	100m	.10uØ	6.0Ø	1.0m	18 △				15pØ	A	TO5	A
60	TIS128	250m	6.5M§△	2.0m	§S	60	45	4.0	30m	100nØ	10Ø	2.0mØ	30 †△				500f$	†Ø	X55	C
61	2N4285	250m	7.0M§△	2.0m	$S	35	35	35	50m	10nØ	5.0	1.0m	600 Ø	1.2uØb	40 Ø	10	10pØ		u29	
62	2N1028	250m	7.2M§△	1.6m	§J	12	10	12	100m	25nØ	6.0	1.0m	9.0 △						TO5	A
63	2N942Ø	250m	10M§△	1.6m	§S	25	8.0	25	50m	2.5nØ	6.0	1.0m	25 △				14pØ		TO18	A
64	2N1918Ø	250m	10.M△	1.7m	§S	25	8.0	25	50m	2.5n	6.0	1.0m	50				7.0p	A△	TO5	A
65	2N941Ø	250m	16M§△	1.6m	§S	25	8.0	25	50m	2.5nØ	6.0	1.0m	25 △				14pØ		TO18	A
66	HA9054†	250m	25M△	1.8m	$A	15		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18	
67	HA9056†	250m	25M△	1.8m	$A	30		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18	
68	HA9058†	250m	25M△	1.8m	$A	50		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18	
69	2N3812*	250m	30M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 △	60uØ	15kØ	25 Ø	4pØ	Ø	L17s	
70	2N3813*	250m	30M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	Ø	L17s	
71	2N3814*	250m	30M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 △	60uØ	15kØ	25 Ø	4pØ	*Ø	L17s	
72	2N3815*	250m	30M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	*Ø	L17s	
73	2N3816*	250m	30M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 △	60uØ	15kØ	25 Ø	4pØ	*Ø	L17s	
74	2N3817*	250m	30M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	*Ø	L17s	
75#	ZTX530	250m	30M△§	2.5m	♦A	30	30	5.0	500m	200n	5.0Ø	100uØ	60 △				8.0pØ	PLØ	X59	F
76#	ZTX531	250m	30M△§	2.5m	♦A	45	45	5.0	500m	200n	5.0Ø	1.0mØ	60 △				8.0pØ	PLØ	X59	F
77	2N4288	250m	40M§△	2.0m	$S	30	25	6.0	100m	50nØ	5.0Ø	1.0m	60 △	10uØb	40 Ø	1.2 Ø	8.0pØ		u29	B
78	2N4289	250m	40M§△	2.0m	$S	60	45	7.0	100m	10nØ	5.0Ø	1.0m	60 △	10uØb	40 Ø	1.2 Ø	8.0pØ	Ø	u29	B
79#	2SA749	250m	40M△§		J♦	100	100	5.0	50m	100n	1.0Ø	20mØ	80 †				3.5p	PE	TO92	B
80	HA9055†	250m	40M△	1.8m	$A	15		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18	
81	HA9057†	250m	40M△	1.8m	$A	30		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18	
82	HA9059†	250m	40M△	1.8m	$A	50		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18	
83	HA7206	250m	45M	2.0m	§A	70		4.0		250nØ	10	2.0m	10	300nb	20	600m	3.0p	ME†	TO18	
84#	2SA639	250m	50M§△	2.5m	♦J	180	160	5.0	50m	1.0uØ	6.0Ø	15mØ	100 †	6.5u	4.0k	900m	7.0pØ	E	TO92	A
85#	2SA675	250m	50M§△	2.5m	♦J	80	80	5.0	100m	1.0uØ	3.0Ø	20mØ	120 †	11u	3.2k	900m	10pØ	E	TO92	A
86	HA7207	250m	55M	2.0m	§A	70		4.0		250nØ	10	2.0m	10	300nb	20	600m	3.0p	ME†	TO18	
87	2N2802*	250m	60M§△	1.6m	§S	25	20	5.0	30m	10n	5.0Ø	1.0mØ	20 △	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	L17k	
88	2N2803*	250m	60M§△	1.6m	§S	25	20	5.0	30m	10n	5.0Ø	1.0mØ	20 △	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	L17k	
89	2N2804*	250m	60M§△	1.6m	§S	25	20	5.0	30m	10n	5.0Ø	1.0mØ	20 △	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	L17k	
90	2N2805*	250m	60M§△	1.6m	§S	25	20	5.0	30m	10n	5.0Ø	1.0mØ	40 △	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	L17k	
91	2N2806*	250m	60M§△	1.6m	§S	25	20	5.0	30m	10n	5.0Ø	1.0mØ	40 △	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	L17k	
92	2N2807*	250m	60M§△	1.6m	§S	25	20	5.0	30m	10n	5.1Ø	1.0mØ	40 △	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	L17k	
93	2N3049*	250m	60M§△	1.6m	§S	25	20	5.0	100m	10n	5.0Ø	1.0mØ	30 △	50uØ	4.5kØ		8.0pØ	*Ø	L2f	
94	2N3050*	250m	60M§△	1.6m	§S	25	20	5.0	100m	10n	5.0Ø	1.0mØ	30 △	50uØ	4.5kØ		8.0pØ	*Ø	L2f	
95	2N3051†	250m	60M§△	1.6m	§S	25	20	5.0	100m	10n	5.0Ø	1.0mØ	30 △	50uØ	4.5kØ		8.0pØ	*Ø	L2f	
96#	BF340	250m	80M§△	2.5m	$S	35	32	5.0	50m	100nØ	5.0Ø	2.5mØ	30 †△				1.5pt Ø	PEØ	X55c	A
97#	BF341	250m	80M§△	2.5m	$S	35	32	5.0	50m	100nØ	5.0Ø	2.5mØ	45 †△				1.4pt	PEØ	X55c	A
98#	BF342	250m	80M§△	2.5m	$S	35	32	5.0	50m	100nØ	5.0Ø	2.5mØ	60 †△				1.4pt	PEØ	X55c	A
99#	BF343	250m	80M§△	2.5m	$S	35	32	5.0	50m	100nØ	5.0Ø	2.5mØ	30 †△				1.4pt	PEØ	X55c	A
100#	BSV68	250m	95M§	2.0m	$J	110	100	6.0	100m	10uØ†	5.0Ø	10mØ	30 †△					PE	TO18	AØ
101	2N3800*	250m	100M§△	1.4m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 △	60uØ	30kØ	25 Ø	4pØ	Ø	L17e	
102	2N3801*	250m	100M§△	1.4m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	Ø	L17e	
103	2N3802*	250m	100M§△	1.4m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 △	60uØ	30kØ	25 Ø	4pØ	Ø	L17e	
104	2N3803*	250m	100M§△	1.4m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	Ø	L17e	
105	2N3804*	250m	100M§△	1.4m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 △	60uØ	30kØ	25 Ø	4pØ	Ø	L17e	
106	2N3804A*	250m	100M§△	1.4m	§S	60	60	5.0	50m	10nØ	10Ø	1.0mØ	150 △	60uØ	30kØ	25 Ø	4.0pØ	Ø	L17e	
107	2N3805*	250m	100M§△	1.4m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	Ø	L17e	
108	2N3805A*	250m	100M§△	1.4m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	*Ø	L17e	
109	2N3816A*	250m	100M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 △	60uØ	15kØ	25 Ø	4pØ	*Ø	L17s	
110	2N3817A*	250m	100M§△	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 △	60uØ	40kØ	25 Ø	4pØ	*Ø	L17s	

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C O D E
1	2N4290	250m	100M§△	2.0m	§S	30	20	5.0	600m	500nØ	5.0Ø	1.0m	60 △	10uØb	40 Ø	1.2 Ø	10pØ		u29	B
2	2N4291	250m	100M§△	2.0m	§S	40	30	6.0	600m	200nØ	5.0Ø	1.0m	60 △	10uØb	40 Ø	1.2 Ø	10pØ		u29	B
3#	2SA640	250m	100M§	2.5m	♦J	50	45	5.0	30m	100nØ	3.0Ø	500uØ	100 †△	33u	9.2k	2.7	10p	EØ	TO92	B
4#	2SA641	250m	100M§	2.5m	♦J	50	45	5.0	30m	100nØ	3.0Ø	500uØ	100 †△	33u	9.2k	2.7	10p	E	TO92	B
5#	BF540	250m	130M§	2.5m	§S	50	45	5.0	50m	100nØ	9.0Ø	1.0mØ	30 †△				1.0pt Ø	PEØ	X55c	C
6#	BF541	250m	130M§	2.5m	§S	50	45	5.0	50m	100nØ	9.0Ø	1.0mØ	45 †△				1.0pt Ø	PEØ	X55c	C
7#	BF542	250m	130M§	2.5m	§S	50	45	5.0	50m	100nØ	9.0Ø	1.0mØ	60 †△				1.0pt Ø	PEØ	X55c	C
8#	SC157	250m	130M§	2.0m	§A	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	A
9#	SC157A	250m	130M§	2.0m	§A	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †△					DPE	u29	A
10#	SC157VI	250m	130M§	2.0m	§A	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	A
11#	SC158	250m	130M§	2.0m	§A	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	A
12#	SC158A	250m	130M§	2.0m	§A	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †△					DPE	u29	A
13#	SC158B	250m	130M§	2.0m	§A	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	240 †△					DPE	u29	A
14#	SC158VI	250m	130M§	2.0m	§A	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	A
15#	SC159	250m	130M§	2.0m	§A	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †△					DPEØ	u29	A
16#	SC159A	250m	130M§	2.0m	§A	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †△					DPEØ	u29	A
17#	SC159B	250m	130M§	2.0m	§A	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	240 †△					DPEØ	u29	A
18#	SC257	250m	130M§	2.0m	§A	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	B
19#	SC257A	250m	130M§	2.0m	§A	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †△					DPE	u29	B
20#	SC257VI	250m	130M§	2.0m	§A	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	B
21#	SC258	250m	130M§	2.0m	§A	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	B
22#	SC258A	250m	130M§	2.0m	§A	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	120 †△					DPE	u29	B
23#	SC258B	250m	130M§	2.0m	§A	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	240 †△					DPE	u29	B
24#	SC258VI	250m	130M§	2.0m	§A	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	75 †△					DPE	u29	B
25#	SC259	250m	130M§	2.0m	§A	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †△					DPEØ	u29	B
26#	SC259A	250m	130M§	2.0m	§A	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	110 †△					DPEØ	u29	B
27#	SC259B	250m	130M§	2.0m	§A	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	240 †△					DPEØ	u29	B
28#	2SA677	250m	140M§		♦S	25	25	5.0	200m	500nØ	3.0Ø	100mØ	250 †				6.0p	E†	u37	
29#	2SA678	250m	140M§		♦S	50	50	5.0	200m	500nØ	3.0Ø	1.0mØ	250 †				6.0p	E†	u37	
30#	2SA704	250m	140M§		♦S	25	25	5.0	200m	500nØ	3.0Ø	1.0mØ	250 †				6.0p	EØ†	u37	
31#	2SA705	250m	140M§		♦S	50	50	5.0	200m	500nØ	3.0Ø	1.0mØ	250 †				6.0p	EØ†	u37	
32#	2SA642	250m	150M§	2.5m	♦J	30	15	5.0	300m	100nØ	1.0Ø	50mØ	65 †△				15p	E	TO92	B
33	BC417	250m	150M§	2.5m	♦J	50	45	5.0	100m	15uØ†	5.0Ø	2.0mØ	75 △				4.5p§		TO106	A
34	BC418	250m	150M§	2.5m	♦J	30	25	5.0	100m	15uØ†	5.0Ø	2.0mØ	75 △				4.5p§		TO106	A
35#	BC418A	250m	150M§				25		200m#		5.0Ø	2.0 Ø	180					PL	TO106	
36#	BC418B	250m	150M§				25		200m#		5.0Ø	2.0 Ø	290					PL	TO106	
37	BC419	250m	150M§	2.5m	♦J	25	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	125 △				4.5p§		TO106	A
38#	BC419A	250m	150M§				20		200m#		5.0Ø	2.0 Ø	180					PL	TO106	
39#	BC419B	250m	150M§				20		200m#		5.0Ø	2.0 Ø	290					PL	TO106	
40	NPC079	250m	150M§	2.5m	§S	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	40 △				12pØ		TO92	A
41	NPC079-98	250m	150M§	2.5m	§S	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	40 △				12pØ		TO92	B
42#	2SA713A	250m	180M§	2.5m	♦J	40	30	10	300m	100nØ	2.0Ø	100mØ	12k†△				6.0p	E†	TO92	B
43#	2SA733	250m	180M§	2.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	200 †				12pØ	E	TO92	B
44#	2SA522	250m	200M§	1.7m	§J	25	20	5.0	100m	.10uØ	10Ø	10m	50				4.0p	PE	TO18	
45#	2SA522A	250m	200M§	1.7m	§J	50	40	5.0	100m	.10uØ	10Ø	10m	50				4.0p	PE	TO18	
46	MD2904AF*	250m	200M§△	1.4m	§J	60	60	5.0	600m	.02u#Ø	10Ø	150mØ	40 †#				8pØ	ANΔ	L17d	
47	MD2904F*	250m	200M§△	1.4m	§J	60	40	5.0	600m	.02u#Ø	10Ø	150mØ	40 †#				8pØ	ANΔ	L17d	
48	MD2905AF*	250m	200M§△	1.4m	§J	60	60	5.0	600m	.02u#Ø	10Ø	150mØ	100 †#				8pØ	ANΔ	L17d	
49	MD2905F*	250m	200M§△	1.4m	§J	60	40	5.0	600m	.02u#Ø	10Ø	150mØ	100 †#				8pØ	ANΔ	L17d	
50#	2SA499†	250m	250M§	1.6m	§J	50	40	5.0	100m	500nØ	1.0Ø	10m	30 †△*				5.0p	PE	TO18	AØ
51#	2SA500†	250m	250M§	1.6m	§J	30	20	5.0	100m	500nØ	1.0Ø	10m	30 †△*				5.0p	PE	TO18	AØ
52	2N4940*	250m	300M§△	1.5m	§S	50	40	5.0	50m	.02uØ	10Ø	1.0mØ	50 △	50uØ	10kØ	10 Ø	5p§Ø	*Ø	L17d	
53	2N4941*	250m	300M§△	1.5m	§S	50	40	5.0	50m	.02uØ	10Ø	1.0mØ	50 △	50uØ	10kØ	10 Ø	5p§Ø	*Ø	L17d	
54#	ME0463†	250m	300M§	2.0m	§J	30	20 *	5.0		10n§	1.0Ø	100uØ	30 †				4.0p	PEØ	R110c	A
55♦#	BF450	250m	325M§	2.3m	♦J	40	40	4.0	25m	10u	10Ø	1.0mØ	60 †△				350f†	PEØ	X64c	C
56♦#	BF451	250m	325M§	2.3m	♦J	40	40	4.0	25m	10u	10Ø	1.0mØ	30 †△				350f†	PEØ	X64c	C
57#	ME0461†	250m	350M§	2.0m	§J	60	50 *	6.0		10nØ	1.0Ø	100uØ	40 †				3.5p	PEØ	R110c	A
58#	ME0462†	250m	350M§	2.0m	§J	50	40 *	6.0		10nØ	1.0Ø	100uØ	80 †				3.5p	PEØ	R110c	A
59#	ZTX510†	250m	400M§△	2.5m	♦A	12	12	4.0	200m#	100nØ	1.0Ø	100mØ	20 †△#				6.0pØ	PL†	X59	F
60	S3639	250m	500M§△	2.5m	♦S	6.0	6.0	4.0	80m	.01uØ	.30Ø	10mØ	30 †△				5.5pØ	PEΔ	TO92	B
61	S3640	250m	500M§△	2.5m	♦S	12	12	4.0	80m	.01uØ	.30Ø	10mØ	30 †△				5.5pØ	PEΔ	TO92	B
62♦#	BF324	250m*	550M§	2.3m	§J	30	30	4.0	25m	50n	10Ø	4.0mØ	50				1.6p	Ø	X64c	A
63#	ME0491†	250m	750M§	2.0m	§J	30	20 *	5.0		10u†Ø	1.0Ø	1.0mØ	40 †				3.0p	PE	R110c	A
64#	ME0492†	250m	750M§	2.0m	§J	25	16 *	5.0		10u†Ø	1.0Ø	1.0mØ	50 †				3.0p	PE	R110c	A
65#	ME0493†	250m	750M§	2.0m	§J	15	12 *	5.0		10u†Ø	1.0Ø	1.0mØ	40 †				6.0p	PE	R110c	A
66▼	MM439	250m	1.0G§	1.4m	§J	30	15	3.0	50m		12Ø	3.0mØ	50 †#				400n	ANØ	TO72	G
67#	2SA800	250m	1.5G§△	1.4m	§J	25	12	3.0	30m	100n	10	10m	60 †				900f§	E	TO72	G
68#	BC201	260m	100M§	1.2m	♦J	5.0	5.0	5.0	50m	.10uØ	.50Ø	.25m	630 *Ø					PE	u32	B
69#	BC202	260m	100M§	1.2m	♦J	30	20	5.0	50m	.10uØ	.50Ø	.25m	630 *Ø					PE	u32	B
70#	BC203	260m	100M§	1.2m	♦J	45	30	5.0	50m	.10uØ	.50Ø	.25m	630 *Ø					PE	u32	B
71	BCY27	275m	1.0M	2.2m	§J	30	25	30	50m	.10uØ	6.0Ø	1.0mØ	15 △	30u	1.0k	3.0	45p	AØ	TO5	
72	BCY28	275m	1.5M	2.2m	§J	30	25	30	50m	.10uØ	6.0Ø	1.0mØ	25 △	40u	1.4k	4.0	45p	AØ	TO5	
73	HA9048	275m	25M	1.8m	§J	25	25	5.0	100m	200nØ	1.0Ø	10mØ	20 †	350nb	15	4.0	8.0p	ME	TO5	
74	HA9049	275m	25M	1.8m	§J	25	25	5.0	100m	200nØ	1.0Ø	10mØ	60 †	350nb	15	4.0	8.0p	ME	TO5	
75	HA9078	275m	25M	1.8m	§A	25		5.0		300n	1.0	10m	20 †	350nb	15	4.0	8.0p	ME	TO18	
76	HA9079	275m	25M	1.8m	§A	25		5.0		200n	1.0	10m	60 †	350nb	15	4.0	8.0p	ME	TO18	
77	2N1254†	275m	30M§△	1.8m	§S	30	30	5.0	100m	200nØ	1.0Ø	10mØ	25 †△				10pØ		TO5	
78	2N1256†	275m	30M§△	1.8m	§S	40	40	5.0	100m	200nØ	1.0Ø	10mØ	25 †△				10pØ		TO5	
79	2N1259†	275m	40M§△	1.8m	§S	50	50	5.0	100m	200nØ	1.0Ø	10mØ	25 †△				10pØ		TO5	
80	2N1255†	275m	50M§△	1.8m	§S	30	30	5.0	100m	200nØ	1.0Ø	10mØ	40 †△				10pØ		TO5	
81	2N1257†	275m	50M§△	1.8m	§S	40	40	5.0	100m	200nØ	1.0Ø	10mØ	40 †△				10pØ		TO5	
82	2N1258†	275m	50M§△	1.8m	§S	30	30	5.0	100m	200nØ	1.0Ø	10mØ	75 †△				10pØ		TO5	
83#	BSY59†	280m	100M§	2.2m	§J		30	5.0	800m	100mØ§	.70Ø	100mØ	160 †				12p	PE†	MM10	A
84#	BC307Ø	280m	130M§	2.2m	§J	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75 △*				4.0p§	PE†	u69	F
85#	BC308Ø	280m	130M§	2.2m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	75 △*				4.0p§	PE†	u69	F
86#	BC309Ø	280m	130M§	2.2m	§J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	125 △*				4.0p§	PE†Ø	u69	F
87#	BSW20A†	280m	150M§△	2.2m	§J	35	30 *	5.0	100m	100u	1.0Ø	10mØ	100 †△				7.0pØ	PE†	u99	A
88#	BSW20VI†	280m	150M§△	2.2m	§J	35	30 *	5.0	100m	100u	1.0Ø	10mØ	40 †△				7.0pØ	PE†	u99	A
89#	2SA565K†	300m			§J						4.0Ø	10mØ	40 △†					PE	TO1	A
90#	BC181	300m		2.4m	§S	40	25	5.0	200m	100nØ	5.0Ø	2.5mØ	60 †△#					PE†	X55c	A
91#	BC315	300m		2.4m	§S	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	125				5.0p	PEØ	X55c	A
92#	BC396	300m		3.0m	♦	80	70	5.0	500m	50n	10Ø	10mØ	35 †				5.0p	PE	TO105	A
93	IT2904	300m		1.7m	§S	60	30	5.0	600m	20nØ	10Ø	100uØ	20 †△				8.0pØ		u92	L
94	IT2905	300m		1.7m	§S	60	30	5.0	600m	20nØ	10Ø	100uØ	35 †△				8.0pØ		u92	L
95	IT2906	300m		1.7m	§S	60	30	5.0	600m	20nØ	10Ø	100uØ	20 †△				8.0pØ		u92	L
96	IT2907	300m		1.7m	§S	60	30	5.0	600m	20nØ	10Ø	100uØ	35 †△				8.0pØ		u92	L
97#	2CY30	300m	.25M§△	1.7m	§A	64	64	45	100m	20u	6.0Ø	1.0mØ	15 △				80pØ	A	TO5	
98#	2S322A	300m	.35M§△			25	25	20	50m			10mØ	15 †△					A	R51	
99#	2CY33	300m	.40M§△	1.7m	§A	32	32	16	100m	20u	6.0Ø	1.0mØ	15 △				80pØ	A	TO5	
100#	OC204	300m	.45M§△	2.5m	§J	32	32	12	250m	.50u	1.0Ø	150mØ	10 †△						R8	
101#	OC205	300m	.45M§△	2.5m	§J	60	60	12	250m	1.5uØ	1.0Ø	150mØ	10 †△						R8	
102#	2S301	300m	.70M	1.7m	§J	80	60	30	100m	10u	6.0	1.0m	18				40p	A	TO5	
103#	2S305	300m	.70M	1.7m	§J	125	125	50	100m	10u	6.0	1.0m	15				40p	A	TO5	
104#	2S3010	300m	.70M§	1.7m	§S	40	40	20	100m	10u	6.0Ø	.10mØ	8.0	13u	525	2.0	40p	AØ	ZA11	
105#	2S325	300m	.75M	2.4m	▼J	125	125	50	50m	1.0u	6.0	1.0m	20				40p	A	R51	
106#	2S302	300m	.80M	1.7m	§J	40	25	20	100m	10u	6.0	1.0m	20				40p	A	TO5	
107#	2S302A	300m	.80M§	1.7m	§S	25	25	10	100m	10u	6.0Ø	.10mØ	11	17u	800	2.7	40p	AØ	ZA11	
108#	2S3020	300m	.80M§	1.7m	§S	40	40	20	100m	10u	6.0Ø	.10mØ	11	17u	800	2.7	40p	AØ	ZA11	
109#	OC206	300m	.85M§△	2.5m	§J	32	32	12	250m	.50u	1.0Ø	150mØ	16 †△						R8	
110	2N3842Ø	300m	1.0M§△	1.7m	§S	120	120	120	100m	20nØ	.50Ø	1.0mØ	10 †△				9pØ		TO18	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1#	2S321	300m	1.0M	2.4m	▼	J	80	80 §	30	50m	10u	6.0	1.0m	15				40p	A	R51		
2#	2S322	300m	1.0M	2.4m	▼	J	40	40	20	50m	10u	6.0	1.0m	20				40p	A	R51		
3#	2S303	300m	1.2M	1.7m	§	J	25	25	20	100m	10u	6.0	1.0m	35				40p	A	TO5		
4#	2S3030	300m	1.2M§	1.7m	§	S	25	25	10	100m	10u	6.0Ø	.10mØ	19	29u	1.5k	4.3	40p	AØ	ZA11		
5	2N3841Ø	300m	1.5M§△	1.7m	§	S	100	100	80	100m	2nØ	.50Ø	1.0mØ	20 †△				9pØ		TO18	A	
6#	2S323	300m	2.0M	2.4m	▼	J	25	25	20	50m	10u	6.0	1.0m	35				40p	A	R51		
7#	2S324	300m	3.0M	2.4m	▼	J	15	15	15	50m	10u	6.0	1.0m	75				40p	A	R51		
8#	2S304	300m	3.5M	1.7m	§	J	15	15	15	100m	10u	6.0	1.0m	75				40p	A	TO5		
9	3N90Ø	300m	6.0M§△	1.7m	§	S	50		30	20m	.01uØ							10pØ	△	TO72	GDØ	
10	3N91Ø	300m	6.0M§△	1.7m	§	S	50		30	20m	.01uØ							10pØ	△	TO72	GDØ	
11	3N92Ø	300m	6.0M§△	1.7m	§	S	50		30	20m	.01uØ							10pØ	△	TO72	GDØ	
12	3N93Ø	300m	6.0M§△	1.7m	§	S	50		50	20m	.01uØ							10pØ	△	TO72	GDØ	
13	JAN3N93Ø	300m	6.0M§△	1.7m	§	S	50	50	50	20m	10nØ							10pØ	△	TO72	GD	
14	3N94Ø	300m	6.0M§△	1.7m	§	S	50		50	20m	.01uØ							10pØ	△	TO72	GDØ	
15	3N95Ø	300m	6.0M§△	1.7m	§	S	50		50	20m	.01uØ							10pØ	△	TO72	GDØ	
16	3N129Ø	300m	8.0M§△	1.6m	§	S	20		10	20m	1.0n							10pØ	△	TO72	GCØ	
17	3N130Ø	300m	8.0M§△	1.6m	§	S	30		20	20m	1.0n							10pØ	△	TO72	GCØ	
18	3N131Ø	300m	8.0M§△	1.6m	§	S	40		30	20m	1.0n							10pØ	△	TO72	GCØ	
19	3N132Ø	300m	8.0M§△	1.6m	§	S	50		40	20m	1.0n							10pØ	△	TO72	GCØ	
20	3N133Ø	300m	8.0M§△	1.6m	§	S	60		50	20m	1.0n							10pØ	△	TO72	GCØ	
21	3N134Ø	300m	8.0M§△	1.7m	§	S	20		15	20m	.01u							12pØ	△	TO72	GCØ	
22	3N135Ø	300m	8.0M§△	1.7m	§	S	40		30	20m	.01u							12pØ	△	TO72	GCØ	
23	3N136Ø	300m	8.0M§△	1.7m	§	S	60		50	20m	.01u							12pØ	△	TO72	GCØ	
24	2N864A†	300m	12M§△	1.6m	§	S	6.0	6.0	6.0	100m	1.0n	6.0Ø	1.0m	25 △		700		9.0pØ		TO18		
25	JAN3N108Ø	300m	12M§△	1.6m	§	S	50			20m	250pØ							10pØ		TO72	GC	
26	3N114Ø	300m	12M§△	1.7m	§	S	30		12	20m	.01uØ							10pØ		TO72	GDØ	
27	3N115Ø	300m	12M§△	1.7m	§	S	30		12	20m	.01uØ							10pØ		TO72	GDØ	
28	3N116Ø	300m	12M§△	1.7m	§	S	30		12	20m	.01uØ							10pØ		TO72	GDØ	
29	3N117Ø	300m	12M§△	1.6m	§	S	50		20	20m	10nØ							10pØ		TO72	GDØ	
30	3N118Ø	300m	12M§△	1.7m	§	S	50		20	20m	.01uØ							10pØ		TO72	GDØ	
31	3N119Ø	300m	12M§△	1.7m	§	S	50		20	20m	.01uØ							10pØ		TO72	GDØ	
32	2N865A†	300m	24M§△	1.6m	§	S	10	6.0	10	100m	1.0n	6.0Ø	1.0m	100 △		700		9.0pØ		TO18		
33#	2H1254†	300m	25M△	2.0m	§	A	25		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18		
34#	2H1256†	300m	25M△	2.0m	§	A	35		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18		
35#	2H1258†	300m	25M△	2.0m	§	A	25		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18		
36#	ZT152	300m	30M§△	2.4m	§	A	20	20	15	500m	.10u	6.0Ø	100m	35 †				5.0p	PE	TO18		
37#	2H1255†	300m	40M△	2.0m	§	A	25		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18		
38#	2H1257†	300m	40M△	2.0m	§	A	35		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18		
39#	2H1259†	300m	40M△	2.0m	§	A	25		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18		
40#	2SA637	300m	40M§△	2.0m	§	J	150	150 §	5.0	50m	1.0uØ	3.0Ø	15mØ	30 †△				10pØ	DPL	TO18	AØ	
41#	2SA685	300m	40M△§	3.0m	♦	J	150	150 §	5.0	50m	1.0u	3.0Ø	15mØ	30 †				10pØ	D	TO92	B	
42#	HT100†	300m	40M△	2.0m	§	A	20	20	5.0	50m	200nØ	10	2.0m	11 †	b	30 Ø		10pØ	ME	TO18		
43#	HT101†	300m	40M△	2.0m	§	A	20	20	5.0	50m	200nØ	1.0Ø	10mØ	35 †△	b	30 Ø		10pØ	ME	TO18		
44	2N2862	300m	45M§△	1.7m	§	S	25	20	5.0	100m	.01uØ	5.0Ø	1.0mØ	25 △	50uØ	5kØ		6pØ	Ø	TO18	AØ	
45#	2SA578	300m	50M§△	2.4m	§	J	50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	350 †	33u	9.0k	2.5	10pØ	E	TO18	AØ	
46#	2SA579	300m	50M§△	2.4m	§	J	50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	350 †	33u	9.0k	2.5	10pØ	EØ	TO18	AØ	
47	2N2861	300m	60M§△	1.7m	§	S	25	20	5.0	100m	.01u	5.0Ø	1.0mØ	50 △	50uØ	5kØ		6pØ	Ø	TO18	AØ	
48	2N3347*	300m	60M§△	2.0m	§	S	60	45	6.0		10nØ	5.0Ø	1.0mØ	60 △	100u	1.5k		6.0pØ	Ø	L17k	Ø	
49	2N3348*	300m	60M§△	2.0m	§	S	60	45	6.0		10nØ	5.0Ø	1.0mØ	60 △	100u	1.5k		6.0pØ	Ø		Ø	
50	2N3349*	300m	60M§△	2.0m	§	S	60	45	6.0		10nØ	5.0Ø	1.0mØ	60 △	100u	1.5k		6.0pØ	Ø		Ø	
51	2N3350*	300m	60M§△	2.0m	§	S	60	45	6.0		10nØ	5.0Ø	1.0mØ	150 △	100u	3.7k		6.0pØ	Ø		Ø	
52	2N3351*	300m	60M§△	2.0m	§	S	60	45	6.0		10nØ	5.0Ø	1.0mØ	150 △	100u	3.7k		6.0pØ	Ø		Ø	
53	2N3352*	300m	60M§△	2.0m	§	S	60	45	6.0		10nØ	5.0Ø	1.0mØ	150 △	100u	3.7k		6.0pØ	Ø		Ø	
54#	BC137	300m	60M§△	3.0m	♦	J	40	40	4.0	600m	.05uØ	10Ø	10mØ	85	130u	400	1.4	10pØ	DPE	R97		
55	EN1132	300m	60M§△	3.0m	♦	J	50	35	5.0		1.0uØ	10Ø	150mØ	30 †#△	1.0uØb	35 Ø	8.0 Ø	45pØ	DPE	TO106	A	
56#	2SA561	300m	70M§	3.0m	♦	J	50	50	5.0	150m	100nØ	1.0Ø	20mØ	100 †				20pØ	PE	R67a	B	
57#	2SA562	300m	70M§	3.0m	♦	J	30	30	5.0	400m	.10uØ	1.0Ø	100mØ	40 †△*				13p	PE†	R67a	B	
58#	2SA659	300m	90M§	3.0m	♦	J	50	50	4.0	200m	10uØ	6.0Ø	50mØ	80 †*					PL	u45a	B	
59#	BSS68	300m§	95M§	4.0m	§	J	110	100	6.0	100m	10uØ†	5.0Ø	10mØ	30 †△				5.0p$Ø	PE△	u135	A	
60	2N3638†	300m	100M§△	3.0m	♦	J	25	25	4.0	500m	35n§	10Ø	10mØ	25 △	1.2mØ	2.0kØ	26 Ø	20pØ		R110a	A	
61	2N5120*	300mØ	100M§△	1.7m	§	S	45	45	7.0	10m	100pØ	5.0Ø	500u	100 †△				800f$Ø	Ø*	L17y		
62	2N5121*	300mØ	100M§△	1.7m	§	S	45	45	7.0	10m	100pØ	5.0Ø	500u	100 †△				800f$Ø	Ø*	L17y		
63	2N5122*	300mØ	100M§△	1.7m	§	S	45	45	7.0	10m	100pØ	5.0Ø	500u	50 †△				800f$Ø	Ø*	L17y		
64	2N5142†	300m	100M§△	3.0m	♦	J	20	20	4.0	500m	50n§	1.0Ø	50mØ	30 †#△				10p$Ø		TO105	A	
65#	2SA502	300m	100M§		♦		80	70	3.0	50m	1.0u	1.0Ø	20mØ	60 †				7.0p	EP	R67a		
66	HA9531	300m	100M	2.0m	§	J	50		5.0		1.0u	10Ø	150mØ	25 †				35p	ME	TO18		
67	HA9531A	300m	100M	2.0m	§	J	60		5.0		500n	10Ø	150mØ	25 †	1.0ub	30	8.0	30p	ME	TO18		
68	HA9532	300m	100M	2.0m	§	J	50		5.0		1.0u	10Ø	150mØ	40 †				35p	ME	TO18		
69	HA9532A	300m	100M	2.0m	§	J	60		5.0		500n	10Ø	150mØ	40 †	1.0ub	30	8.0	30p	ME	TO18		
70#	NKT20329	300m	100M§	2.0m	§	J	30	30	4.0	100m	.01uØ	10Ø	.01mØ	60 †				4.0p		TO18	AØ	
71	TE5447	300m	100M	2.3m	§	J	40	25	5.0	200m	100n	5.0	50m	30				12f		TO106	A	
72#	V435†	300m	100M§△	3.0m	♦	J	20	20	5.0		.10uØ	10Ø	10mØ	40 †△				12pØ	PE	R97		
73	MPSA70	300m	125M§△	2.7m	†	J		40	4.0	100m	100n	10Ø	5.0mØ	40 †△*				4.0pØ	AN	TO92	A	
74	MPSK70	300m	125M§△	2.7m	†	J		40	4.0	100m	100nØ	10Ø	5.0mØ	40 †△				4.0pØ	AN†	TO92	A	
75	MPSK71	300m	125M§△	2.7m	†	J		40	4.0	100m	100nØ	10Ø	5.0mØ	40 †△				4.0pØ	AN†	TO92	A	
76	MPSK72	300m	125M§△	2.7m	†	J		40	4.0	100m	100nØ	10Ø	5.0mØ	40 †△				4.0pØ	AN†	TO92	A	
77▼#	2SB542	300m	130M§	3.0m	♦	J	20	15	5.0	300m	1.0u	2.0Ø	150mØ	100 †					PE	TO92		
78#	BC157A	300m	130M§	2.4m	§	J		45	5.0	100m		5.0Ø	2.0mØ	170	25u	2.7k	3.0	6.0pØ	PE†	MM10	A	
79#	BC157B	300m	130M§	2.4m	§	J		45	5.0	100m		5.0Ø	2.0mØ	290	35u	4.5k	3.5	6.0pØ	PE†	MM10	A	
80#	BC158C	300m	130M	2.4m	§		30	25	5.0	100m	40n	5.0	2.0m	500 †					PE	MM10	A	
81#	BC159C	300m	130M	2.4m	§		25	20	5.0	50m	40n	5.0	2.0m	500 †					PE	MM10	A	
82#	BC178C	300m	130M	2.0m	§		30	25	5.0	100m	40n	5.0	2.0m	500 †					PE	TO18	A	
83#	BC179A	300m	130M§	2.0m	§	J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	125 △				4.5p	PEØ	TO18	AØ	
84#	BC179C	300m	130M	2.0m	§		25	20	5.0	50m	40n	5.0	2.0m	500 †					PE	TO18	A	
85#	BC257A	300m	130M§	2.4m	§	J		45	5.0	100m		5.0Ø	2.0mØ	170 †	25u	2.7k	3.0	6.0pØ	PE†	TO92	D	
86#	BC257B	300m	130M§	2.4m	§	J		45	5.0	100m		5.0Ø	2.0mØ	290 †	35u	4.5k	3.5	6.0pØ	PE†	TO92	D	
87#	BC257VI	300m	130M§	2.4m	§	J		45	5.0	100m		5.0Ø	2.0mØ	100 †	20u	1.2k	2.5	6.0pØ	PE†	TO92	D	
88#	BC258A	300m	130M§	2.4m	§	J		25	5.0	100m		5.0Ø	2.0mØ	170 †	25u	2.7k	3.0	6.0pØ	PE†	TO92	D	
89#	BC258B	300m	130M§	2.4m	§	J		25	5.0	100m		5.0Ø	2.0mØ	290 †	35u	4.5k	3.5	6.0pØ	PE†	TO92	D	
90#	BC258C	300m	130M	2.4m	§		30	25	5.0	100m	40n	5.0	2.0m	500 †					PE	MM10	A	
91#	BC258VI	300m	130M§	2.4m	§	J		25	5.0	100m		5.0Ø	2.0mØ	100 †	20u	1.2k	2.5	6.0pØ	PE†	TO92	D	
92#	BC259A	300m	130M§	2.4m	§	J		20	5.0	50m		5.0Ø	2.0mØ	170 †	25u	2.7k	3.0	6.0pØ	PEØ	TO92	D	
93#	BC259B	300m	130M§	2.4m	§	J		20	5.0	50m		5.0Ø	2.0mØ	290 †	35u	4.5k	3.5	6.0pØ	PEØ	TO92	D	
94♦#	BC262	300m	130M§△	2.0m	§	J	45	30	5.0		50nØ	5.0Ø	2.0m	125 △						TO18		
95#	BC307△	300m	130M§	2.2m	§	J		45	5.0	100m	100n§	5.0	2.0mØ	222 *	25u	2.7k	3.0	6.0pØ	PE	X64a	C	
96#	BC307A	300m	130M§	2.4m	§			45	5.0	100m		5.0Ø	2.0mØ	170 †	18u	2.7k	1.5	6.0pØ	PE†	TO92	A	
97#	BC307B	300m	130M§	2.4m	§			45	5.0	100m		5.0Ø	2.0mØ	290 †	30u	4.5k	2.0	6.0pØ	PE†	TO92	A	
98#	BC307VI	300m	130M§	2.4m	§			45	5.0	100m		5.0Ø	2.0mØ	100 †	20u	1.2k	2.5	6.0pØ	PE†	TO92	A	
99#	BC308△	300m	130M§	2.2m	§	J		25	5.0	100m	100n§	5.0	2.0mØ	222 *	25u	2.7k	3.0	6.0pØ	PE	X64a	C	
100#	BC308C	300m	130M§	2.4m	§			25	5.0	100m		5.0Ø	2.0mØ	500 †	60u	8.7k	3.0	6.0pØ	PE†	TO92	A	
101#	BC308VI	300m	130M§	2.4m	§			25	5.0	100m		5.0Ø	2.0mØ	100 †	20u	1.2k	2.5	6.0pØ	PE†	TO92	A	
102#	BC309△	300m	130M§	2.2m	§	J		20	5.0	50m	100n§	5.0	2.0mØ	222 *	25u	2.7k	3.0	6.0pØ	PEØ	X64a	C	
103#	BC309C	300m	130M§	2.4m	§			20	5.0	50m		5.0Ø	2.0mØ	500 †	60u	8.7k	3.0	6.0pØ	PEØ	TO92	A	
104	2N726	300m	140M§△	2.0m	§	J	25	20	5.0	50m	1.0u	1.0Ø	10mØ	30 †#				5pØ	ME△	TO18	AØ	
105	2N727	300m	140M§△	2.0m	§	J	25	20	5.0	50m	1.0u	1.0Ø	10mØ	60 †#				5pØ	ME△	TO18	AØ	
106	2N2411†	300m	140M§△	1.7m	§	J	25	20	5.0	100m	10n	.50Ø	50uØ	10 †△				5.0pØ		TO18	AØ	
107	2N2412†	300m	140M§△	1.7m	§	J	25	20	5.0	100m	10n	.50Ø	50uØ	20 †△				5.0pØ		TO18	AØ	
108#	BFV82	300m	140M§△	500u	§	J	25	20	5.0	50m	1.0u	10Ø	10mØ	15 △				5pØ	D△	u26a	B	
109#	BFV82A	300m	140M§△	500u	§	J	25	20	5.0	50m	1.0u	10Ø	10mØ	30 △				5pØ	D△	u26a	B	
110#	BFV82B†	300m	140M§△	588u	§	J	25	20	5.0	100m	.10u§	.50Ø	10mØ	20 †△				5pØ	PE	u26a	B	

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CONFIG.
1#	BFV82C†	300m	140M§△	588u	§J	25	20	5.0	100m	10u§	.50Ø	10mØ	40 †△				5pØ	PE	u26a	B
2	2N3638A†	300m	150M§△	3.0m	♦J	25	25	4.0	500m	35n§	10Ø	10mØ	100 △	1.2mØ	2.0kØ	15 Ø	10pØ		R110a	A
3#	2SA550	300m	150M§	2.0m	§J	25	25	5.0	100m	1.0uØ	5.0	2.0m	250 †				5.0p	PE	TO18	
4#	2SA550A	300m	150M§	2.0m	§J	45	45	5.0	100m	1.0uØ	5.0	2.0m	250 †				5.0p	PE	TO18	
5#	2SA603	300m	150M§△	2.4m	§J	60	40	8.0	200m	.50uØ	1.0Ø	10mØ	80 †△				7pØ	PE	TO18	AØ
6	A177	300m	150M§	2.0m	§J	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75	36u	2.6k	220m	4.0p$	PL	TO18	AØ
7	A178A	300m	150M§	2.0m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	125 △	42u	2.8k	260m	4.0p$	PL	TO18	AØ
8	A178B	300m	150M§	2.0m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	240 △	60u	3.5k	250m	4.0p$	PL	TO18	AØ
9	A179A	300m	150M§	2.0m	§J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	125 △	42u	2.8k	260m	4.0p$	PLØ	TO18	AØ
10	A179B	300m	150M§	2.0m	§J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	240 △	60u	3.5k	250m	4.0p$	PLØ	TO18	AØ
11#	BC221	300m	150M§	3.0m	§J	30	30	5.0	500m	500nØ	5.0Ø	10mØ	50 †△	220m	390	1.1	8.0p	DPE	TO105	
12	BC307%	300m	150M§	3.0m	♦J	50	45	5.0	100m	5.0uØ†	5.0Ø	2.0mØ	75 △				4.5p$	PE†	X55b	A
13	BC308A	300m	150M§	3.0m	♦J	30	25	5.0	100m	5.0uØ†	5.0Ø	2.0mØ	125 △				4.5p$	PE†	X55b	A
14	BC308B	300m	150M§	3.0m	♦J	30	25	5.0	100m	5.0uØ†	5.0Ø	2.0mØ	240 △				4.5p$	PE†	X55b	A
15	BC309A	300m	150M§	3.0m	♦J	25	20	5.0	100m	5.0uØ†	5.0Ø	2.0mØ	125 △				4.5p$	PEØ	X55b	A
16	BC309B	300m	150M§	3.0m	♦J	25	20	5.0	100m	5.0uØ†	5.0Ø	2.0mØ	240 △				4.5p$	PEØ	X55b	A
17#	BCW37	300m	150M	2.7m	§	60	45	5.0	600m	10n	5.0Ø	100mØ	100 △	5.0u	40k	10	6.0p	PEØ	TO92	
18#	BSW19A†	300m	150M§△	2.0m	§J	35	30 *	5.0	100m	100u	1.0Ø	10mØ	100 †△				7.0pØ	PE	TO18	AØ
19#	BSW19VI†	300m	150M§△	2.0m	§J	35	30 *	5.0	100m	100u	1.0Ø	10mØ	40 †△				7.0pØ	PE	TO18	AØ
20	EN2905†	300m	150M△	3.0m	♦J	60	40	5.0	600m	.05uØ	10Ø	150mØ	100 †#△				8pØ	DPE	TO105	A
21	EN3502†	300m	150M§△	3.0m	♦J	45	45	5.0	600m	.01u§Ø	10Ø	10mØ	135 △	1.2m	2.3k	15	8pØ	DPEØ	TO105	A
22#	ZT180†	300m	150M△§	2.4m	§J	25	25	4.0	500m	500n	6.0Ø	1.0mØ	55				15pØ	PLØ	TO18	AØ
23#	ZT181†	300m	150M△§	2.4m	§J	45	35	4.0	500m	500n	6.0Ø	1.0mØ	55				15pØ	PLØ	TO18	AØ
24#	ZT182†	300m	150M§△	2.4m	§J	45	35	4.0	500m	500n	6.0Ø	1.0mØ	90				15pØ	PLØ	TO18	AØ
25#	ZT183†	300m	150M△§	2.4m	§J	45	45	4.0	500m	50n	6.0Ø	1.0mØ	55				15pØ	PLØ	TO18	AØ
26#	ZT184†	300m	150M△§	2.4m	§J	45	45	4.0	500m	50n	6.0Ø	1.0mØ	90				15pØ	PLØ	TO18	AØ
27#	ZT187†	300m	150M△§	2.4m	§J	25	25	4.0	500m	500n	6.0Ø	1.0mØ	90				15pØ	PLØ	TO18	AØ
28#	ZT189†	300m	150M△§	2.4m	§J	70	70	4.0	500m	500n	6.0Ø	1.0mØ	90				15pØ	PLØ	TO18	AØ
29#	ZT280†	300m	150M§△	2.4m	§J	25	25	4.0	500m#	500n	6.0Ø	1.0mØ	55				15pØ	PLØ	R81k	AØ
30#	ZT281†	300m	150M§△	2.4m	§J	45	35	4.0	500m#	500n	6.0Ø	1.0mØ	55				15pØ	PLØ	R81k	AØ
31#	ZT282†	300m	150M§△	2.4m	§J	45	35	4.0	500m#	500n	6.0Ø	1.0mØ	90				15pØ	PLØ	R81k	AØ
32#	ZT283†	300m	150M§△	2.4m	§J	45	45	4.0	500m#	50n	6.0Ø	1.0mØ	55				15pØ	PLØ	R81k	AØ
33#	ZT284†	300m	150M§△	2.4m	§J	45	45	4.0	500m#	50n	6.0Ø	1.0mØ	90				15pØ	PLØ	R81k	AØ
34#	ZT287†	300m	150M§△	2.4m	§J	25	25	4.0	500m#	500n	6.0Ø	1.0mØ	90				15pØ	PLØ	R81k	AØ
35#	ZTX500	300m	150M§△	3.0m	♦A	25	25	5.0	500m#	200n	6.0Ø	10mØ	50 †△				6.0pØ	PLØ	X59	F
36#	ZTX501	300m	150M§△	3.0m	♦A	35	35	5.0	500m#	200n	6.0Ø	10mØ	50 †△				6.0pØ	PLØ	X59	F
37#	ZTX502	300m	150M§△	3.0m	♦A	35	35	5.0	500m#	200n	6.0Ø	10mØ	100 †△				6.0pØ	PLØ	X59	F
38#	ZTX503	300m	150M§△	3.0m	♦A	45	45	5.0	500m#	200n	6.0Ø	10mØ	50 †△				6.0pØ	PLØ	X59	F
39#	ZTX504	300m	150M§△	3.0m	♦A	70	70	5.0	500m#	200n	6.0Ø	10mØ	50 †△				6.0pØ	PLØ	X59	F
40	2N4888	300m	160M§Ø	3.0m	♦J	150	150	6.0	100m	.05uØ	10Ø	1.0mØ	500 Ø	40uØ	20kØ		4pØ		R124b	A
41	2N4889	300m	160M§Ø	3.0m	♦J	150	150	6.0	100m	.01uØ	10Ø	1.0mØ	400 Ø	25uØ	12kØ	5 Ø	4pØ	Ø	R124b	A
42#	BC186	300m	168M§	2.0m	§J	40	25	5.0	100m	100nØ	5.0Ø	2.0mØ	100	21u	1.4k	1.1	4.5p†	PE	TO18	AØ
43#	V435A	300m	170M§	3.0m	♦J	35	35	5.0		.10uØ	10Ø	10mØ	40 †△#				6.0p	PE	R97	A
44#	BC250A	300m	180M§	3.0m	♦J	20	20	5.0	100m	.10uØ	1.0Ø	1.0mØ	35 †△				4.0p	PE†	X64	A
45#	BC250B	300m	180M§	3.0m	♦J	20	20	5.0	100m	100nØ	1.0Ø	1.0mØ	80 †△				4.0p	PE†	X64	A
46#	BC250C	300m	180M§	3.0m	♦J	20	20	5.0	100m	100nØ	1.0Ø	1.0mØ	200 †△				4.0p	PE†	X64	A
47#	BC260A	300m	180M§	2.0m	§J	20	20	5.0	100m	.10uØ	1.0Ø	1.0mØ	35 †△				4.0p	PE	TO18	AØ
48#	BC260B	300m	180M§	2.0m	§J	20	20	5.0	100m	.10uØ	1.0Ø	1.0mØ	80 †△				4.0p	PE	TO18	AØ
49#	BC260C	300m	180M§	2.0m	§J	20	20	5.0	100m	.10uØ	1.0Ø	1.0mØ	200 †△				4.0p	PE	TO18	AØ
50	MPSH54	300m	185M§	2.7m	†J	80	80	4.0	100m	50nØ	10Ø	1.5mØ	70 †	6.0u			1.0p$	ANØ	TO92	A
51	MPSH55	300m	185M§	2.7m	†J	80	80	4.0	100m	50nØ	10Ø	1.5mØ	70 †	6.0u			1.0p$	ANØ	TO92	A
52	CS4012†	300m	190M	3.0m	♦J	25	25	4.0	500m		5.0Ø	4.0mØ	70 †#	60u	1.5k	250m	6.0p	E	TO105	A
53	CS4013†	300m	190M	3.0m	♦J	25	25	4.0	500m		5.0Ø	4.0mØ	160 †#	60u	1.5k	250m	6.0p	E	TO105	A
54#	BC187	300m	191M§	2.0m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	140	29u	2.0k	1.4	4.5p†	PE	TO18	AØ
55	2N3644†	300m	200M§△	3.0m	♦J	45	45	5.0	500m	35n§	10Ø	1.0mØ	80 †△				8.0pØ		R110a	A
56	2N3645†	300m	200M§△	3.0m	♦J	60	60	5.0	500m	35n§	10Ø	1.0mØ	80 †△				8.0pØ		R110a	A
57	2N4142†	300m	200M§△	3.0m	♦J	60	40	5.0	200m	50n#	10Ø	150mØ	120 †Ø				8.0pØ		R110	A
58	2N4143†	300m	200M§△	3.0m	♦J	60	40	5.0	200m	50n#	10Ø	150mØ	300 †Ø				8.0pØ		R110	A
59	2N4228	300m	200M§△	3.0m	♦J	60	40	5.0	200m	50n#	10Ø	150mØ	150 †Ø				8.0pØ		R110	A
60#	2SA467	300m	200M§	3.0m	♦J	40	30	5.0	400m	.50uØ	1.0Ø	100mØ	100 †				10p	PE	R67a	B
61#	BC116	300m	200M§	3.0m	♦J	45	40	5.0		50nØ	10Ø	100uØ	20 †△				5.0p	DPE	R97	
62#	BC126	300m	200M§△	3.0m	♦J	35	30	5.0	600m	.05uØ	10Ø	1.0mØ	20 †△				5.0p	DPE	R97	
63	BC126A	300m	200M§	3.0m	♦J	40	40	5.0	500m	50pØ	1.0Ø	50mØ	50 †△				7.0p		TO105	A
64#	BC177	300m$	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	240 †△					PE	TO18	A
65#	BC177A	300m	200M§	2.0m	§J	50	45	5.0	100m	.05u	5.0Ø	2.0mØ	180				4.0p	E	TO18	AØ
66#	BC177B	300m	200M§	2.0m	§J	50	45	5.0	100m	.05u	5.0Ø	2.0mØ	290				4.0p	E	TO18	AØ
67#	BC177V	300m	200M§	2.0m	§J	50	45	5.0	100m	.05u	5.0Ø	2.0mØ	75				4.0p	E	TO18	AØ
68#	BC177VI	300m	200M§	2.0m	§J	50	45	5.0	100m	.05u	5.0Ø	2.0mØ	110				4.0p	E	TO18	AØ
69#	BC178	300m$	200M§	2.0m	§J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	240 †△					PE	TO18	A
70#	BC178A	300m	200M§	2.0m	§J	30	25	5.0	100m	.10u	5.0Ø	2.0mØ	180				4.0p	E	TO18	AØ
71#	BC178B	300m	200M§	2.0m	§J	30	25	5.0	100m	.10u	5.0Ø	2.0mØ	290				4.0p	E	TO18	AØ
72#	BC178V	300m	200M§	2.0m	§J	30	25	5.0	100m	.10u	5.0Ø	2.0mØ	75				4.0p	E	TO18	AØ
73#	BC178VI	300m	200M§	2.0m	§J	30	25	5.0	100m	.10u	5.0Ø	2.0mØ	110				4.0p	E	TO18	AØ
74#	BC179	300m$	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 †△					PEØ	TO18	A
75#	BC179B	300m	200M§	2.0m	§J	25	20	5.0	100m	.05u	5.0Ø	2.0mØ	290				4.0p	EØ	TO18	AØ
76#	BC204A	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	125 △				4.0p	PE	R110	A
77#	BC204B	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	240 △				4.0p	PE	R110	A
78#	BC204V	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	50 △				4.0p	PE	R110	A
79#	BC204VI	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	75 △				4.0p	PE	R110	A
80#	BC205A	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	125 △				4.0p	PE	R110	A
81#	BC205B	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	240 △				4.0p	PE	R110	A
82#	BC205V	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	50 △				4.0p	PE	R110	A
83#	BC205VI	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	75 △				4.0p	PE	R110	A
84#	BC206B	300m	200M§	3.0m	♦J	20	20	5.0	100m	50n	5.0Ø	2.0mØ	240 △				4.0p	PEØ	R110	A
85#	BC212†	300m	200M§△	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				10pØ	PE	X55	A
86#	BC212A†	300m	200M§△	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	300 Ø				10pØ	PE	X55	A
87#	BC212B†	300m	200M§△	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	400 Ø				10pØ	PE	X55	A
88#	BC212K†	300m	200M§△	3.0m	♦J	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	50 △				10pØ	PEØ	X64a	A
89#	BC212KA†	300m	200M§△	3.0m	♦J	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				10pØ	PEØ	X64a	A
90#	BC212KB†	300m	200M§△	3.0m	♦J	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	200 △				10pØ	PEØ	X64a	A
91#	BC212L†	300m	200M§△	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				10pØ	PE	TO92	B
92#	BC212LA†	300m	200M§△	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	300 Ø				10pØ	PE	TO92	B
93#	BC212LB†	300m	200M§△	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	400 Ø				10pØ	PE	TO92	B
94#	BC213†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				10pØ	PE	X55	A
95#	BC213A†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 Ø				10pØ	PE	X55	A
96#	BC213B†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 Ø				10pØ	PE	X55	A
97#	BC213C†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 Ø				10pØ	PE	X55	A
98#	BC213K†	300m	200M§△	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	70 △				10pØ	PEØ	X64a	A
99#	BC213KA†	300m	200M§△	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				10pØ	PEØ	X64a	A
100#	BC213KB†	300m	200M§△	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	200 △				10pØ	PEØ	X64a	A
101#	BC213KC†	300m	200M§△	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	350 △				10pØ	PEØ	X64a	A
102#	BC213L†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				10pØ	PE	TO92	B
103#	BC213LA†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 Ø				10pØ	PE	TO92	B
104#	BC213LB†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 Ø				10pØ	PE	TO92	B
105#	BC213LC†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 Ø				10pØ	PE	TO92	B
106#	BC214†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	140 △				10pØ	PEØ	X55	A
107#	BC214A†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 Ø				10pØ	PEØ	X55	A
108#	BC214B†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 Ø				10pØ	PEØ	X55	A
109#	BC214C†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 Ø				10pØ	PEØ	X55	A
110#	BC214K†	300m	200M§△	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	125 △				10pØ	PEØ	X64a	A

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 DERATE IN FREE AIR fab (Hz)	W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1#	BC214KB†	300m	200M§△	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	200 △				10pØ	PEØ	X64a	A	
2#	BC214KC†	300m	200M§△	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	350 △				10pØ	PEØ	X64a	A	
3#	BC214L†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	140 △				10pØ	PEØ	TO92	B	
4#	BC214LB†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 ☑				10pØ	PEØ	TO92	B	
5#	BC214LC†	300m	200M§△	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 ☑				10pØ	PEØ	TO92	B	
6#	BC251A	300m	200M§	3.0m	♦J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PE†Ø	X64	A	
7#	BC251B	300m	200M§	3.0m	♦J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PE†Ø	X64	A	
8#	BC251C	300m	200M§	3.0m	♦J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	450 △	60u	8.7k	3.0	4.0p	PE†Ø	X64	A	
9#	BC252A	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PE†Ø	X64	A	
10#	BC252B	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PE†Ø	X64	A	
11#	BC252C	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 △	60u	8.7k	3.0	4.0p	PE†Ø	X64	A	
12#	BC253A	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PE†Ø	X64	A	
13#	BC253B	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PE†Ø	X64	A	
14#	BC253C	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 △	60u	8.7k	3.0	4.0p	PE†Ø	X64	A	
15#	BC256A	300m	200M§	3.0m	♦J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PE†Ø	X64	A	
16#	BC256B	300m	200M§	3.0m	♦J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PE†Ø	X64	A	
17#	BC259C	300m	200M	2.4m	§	30	25	5.0	50m	40n	5.0	2.0m	500 †					PE	MM10	A	
18#	BC261A	300m	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ	
19#	BC261B	300m	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ	
20#	BC261C	300m	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	450 △	60u	8.7k	3.0	4.0p	PEØ	TO18	AØ	
21#	BC262A	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ	
22#	BC262B	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ	
23#	BC262C	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 △	60u	8.7k	3.0	4.0p	PEØ	TO18	AØ	
24#	BC263A	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ	
25#	BC263B	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ	
26#	BC263C	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 △	60u	8.7k	3.0	4.0p	PEØ	TO18	AØ	
27#	BC266A	300m	200M§	2.0m	§J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ	
28#	BC266B	300m	200M§	2.0m	§J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ	
29#	BC415	300m	200M§	3.0m	♦A	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †△					DPEØ	u29	A	
30#	BC415A	300m	200M§	2.5m	§J	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	222	18u	2.7k	1.5	4.5p	PEØ	X64c	A	
31#	BC415B	300m	200M§	2.5m	§J	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	4.5p	PEØ	X64c	A	
32#	BC415C	300m	200M§	2.5m	§J	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	4.5p	PEØ	X64c	A	
33#	BC416	300m	200M§	3.0m	♦A	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †△					DPEØ	u29	A	
34#	BC416A	300m	200M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	222	18u	2.7k	1.5	4.5p	PEØ	X64c	A	
35#	BC416B	300m	200M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	4.5p	PEØ	X64c	A	
36#	BC416C	300m	200M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	4.5p	PEØ	X64c	A	
37#	BC512	300m	200M§△	2.4m	$S	50	45	5.0	200m	15nØ	5.0Ø	2.0mØ	60 △				5.0p	PE†	X55c	A	
38#	BC512A	300m	200M§△	2.4m	$S	50	45	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				5.0p	PE†	X55c	A	
39#	BC512B	300m	200M§△	2.4m	$S	50	45	5.0	200m	15nØ	5.0Ø	2.0mØ	200 △				5.0p	PE†	X55c	A	
40#	BC513	300m	200M§△	2.4m	$S	30	25	5.0	200m	15nØ	5.0Ø	2.0mØ	80 △				5.0p	PE†	X55c	A	
41#	BC513A	300m	200M§△	2.4m	$S	30	25	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				5.0p	PE†	X55c	A	
42#	BC513B	300m	200M§△	2.4m	$S	30	25	5.0	200m	15nØ	5.0Ø	2.0mØ	200 △				5.0p	PE†	X55c	A	
43#	BC513C	300m	200M§△	2.4m	$S	30	25	5.0	200m	15nØ	5.0Ø	2.0mØ	350 △				5.0p	PE†	X55c	A	
44#	BC514	300m	200M§△	2.4m	$S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	140 △				5.0p	PE†	X55c	A	
45#	BC514A	300m	200M§△	2.4m	$S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	100 △				5.0p	PE†	X55c	A	
46#	BC514B	300m	200M§△	2.4m	$S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	200 △				5.0p	PE†	X55c	A	
47#	BC514C	300m	200M§△	2.4m	$S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	350 △				5.0p	PE†	X55c	A	
48#	BC612	300m	200M	2.4m	$	75	70	5.0	200m	15n	5.0	2.0m	100				10p	PE	TO15		
49#	BCW85†	300m	200M§△	2.4m	$S	90	60	6.0	200m	15nØ	5.0Ø	2.0mØ	150 △	25u	3.5k	2.0	5.0p	PE†	X55c	A	
50#	BCW86†	300m	200M§△	2.4m	$S	70	50	6.0	200m	15nØ	5.0Ø	2.0mØ	150 △	25u	6.0k	2.0	5.0p	PE†	X55c	A	
51#	BCY78	300m$	200M§	2.0m	§J		32	5.0	200m		5.0Ø	2.0mØ	125 △*				4p$	PE	TO18	AØ	
52#	BCY79	300m$	200M§	2.0m	§J		45	5.0	200m		5.0Ø	2.0mØ	125 △*				4p$	PE	TO18	AØ	
53#	BFW88†	300m	200M§	3.0m	♦J	60	60	5.0	500m	500n	5.0Ø	10mØ	150	68u	340	1.6	18pt	PL†	MM10	A	
54#	BFW90†	300m	200M§	3.0m	♦J	40	40	5.0	500m	500n	5.0Ø	10mØ	150	68u	340	1.6	18pt	PL†	MM10	A	
55#	BFW91†	300m	200M§	3.0m	♦J	20	20	5.0	500m	500n	5.0Ø	10mØ	150	68u	340	1.6	18pt	PL†	MM10	A	
56#	MA0411	300m	200M§	2.4m	§J	60	45	6.0		10nØ	5.0Ø	1.0mØ	100 †△				3.0p	PEØ	TO18		
57#	MA0412	300m	200M§	2.4m	§J	60	45	6.0		10nØ	5.0Ø	1.0mØ	200 †△				3.0p	PEØ	TO18		
58#	MA0413	300m	200M§	2.4m	§J	40	25	5.0		50nØ	5.0Ø	1.0mØ	60 †△				3.0p	PEØ	TO18		
59#	MA0414	300m	200M§	2.4m	§J	25	25	4.0		100nØ	5.0Ø	1.0mØ	50 †△				3.0p	PEØ	TO18		
60#	PN2904	300m	200M§	3.3m	♦J	60	40	5.0	600m	50nØ	10Ø	150mØ	40 †△				8.0pØ	PL	TO105	A	
61#	PN2905	300m	200M§	3.3m	♦J	60	40	5.0	600m	50nØ	10Ø	150mØ	100 †△				8.0pØ	PL	TO105	A	
62#	BFX12	300m	210M§	2.0m	§J	20	15		100m	.01uØ	.35Ø	10mØ	20 †△					PE△	TO18	AØ	
63#	BSY40†	300m	210M§	2.0m	§J	25	20	5.0	100m	.01u	.50Ø	10mØ	40 †					PE	TO18	AØ	
64#	BFW87†	300m	230M§	3.0m	♦J	60	60	5.0	500m	500n	5.0Ø	10mØ	220	95u	500	1.6	18pt	PL†	MM10	A	
65#	BFW89†	300m	230M§	3.0m	♦J	40	40	5.0	500m	500n	5.0Ø	10mØ	220	95u	500	1.6	18pt	PL†	MM10	A	
66#	BFX13	300m	230M§	2.0m	§J	20	15		100m	.01uØ	.35Ø	10mØ	50 †					PE△	TO18	AØ	
67#	BSY41†	300m	230M§	2.0m	§J	25	20	5.0	100m	.01u	.50Ø	10mØ	60 †					PE	TO18	AØ	
68#	BF440	300m*	250M§	2.9m	§J	40	40 *	4.0	25m	10u	10Ø	1.0mØ	60 †△				400f†	PE†Ø	u99	C	
69#	BF441	300m*	250M§	2.9m	♦J	40	40 *	4.0	25m	10u	10Ø	1.0mØ	30 †△				400f†	PE†Ø	u99	C	
70	2N3451†	300m	300M§△	1.7m	§J	6.0	6.0	4.0		10n§	.30Ø	10mØ	30 †△				5.5pØ		TO18	AØ	
71#	BSW21	300m	300M§	2.0m	§J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	TO18	AØ	
72#	BSW21A	300m	300M§	2.0m	§J	50	50	5.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	TO18	AØ	
73#	BSW22	300m	300M§	2.0m	§J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	250 †				4.0p	E	TO18	AØ	
74#	BSW22A	300m	300M§	2.0m	§J	50	50	5.0	200m	.50u	4.5Ø	2.0mØ	250 †				4.0p	E	TO18	AØ	
75#	BSW44	300m	300M§	3.0m	♦J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	R110	A	
76#	BSW44A	300m	300M§	3.0m	♦J	50	50	5.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	R110	A	
77#	BSW45	300m	300M§	3.0m	♦J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	250 †				4.0p	E	R110	A	
78#	BSW45A	300m	300M§	3.0m	♦J	50	50	5.0	200m	.50u	4.5Ø	2.0mØ	250 †				4.0p	E	R110	A	
79	2N4453†	300m	400M§△	1.7m	$S		18	5.0	200m	.01u§	.50Ø	30mØ	40 †#△				6p$Ø		TO46	A	
80	JAN2N4453†	300m	400M§△	1.7m	§J	25	18	5.0		10n§	5.0Ø	10mØ	40 †△#				6.0p	Ø	TO46	AØ	
81#	BFV81†	300m	400M§△	588u	§J	12	12	4.0	200m	10uØ	.30Ø	10mØ	30 †#△				6pØ	PE	u26a	B	
82#	BFV81A†	300m	400M§△	588u	§J	12	12	4.0	200m	10uØ	.30Ø	10mØ	25 †#△				6pØ	PE	u26a	B	
83#	BFV81B†	300m	400M§△	588u	§S	20	15	5.0	200m	10uØ	.50Ø	10mØ	40 †△				4.5p	PE	u26a	B	
84	2N3304†	300m	500M§△	1.7m	§J	6.0	6.0	4.0		.01uØ	.30Ø	10mØ	63 †				3.5pØ	PE	TO18	AØ	
85	2N5040	300m	500M§☑	3.0m	♦J	25	25	4.0	1.0	50nØ	1.0Ø	150mØ	30 †#				35p$		R124b	A	
86	2N5041	300m	500M§☑	3.0m	♦J	40	40	5.0	1.0	50nØ	1.0Ø	150mØ	40 †#				35p$		R124b	A	
87#	BF379	300m*	520M§	2.9m	§J	40	25 *	4.0	25m	10u	10Ø	1.0mØ	80 †				650f†Ø	PE†Ø	u99	A	
88#	V405A†	300m	550M§	2.0m	§J	12	12	4.0		100nØ	2.0Ø	5.0mØ	35 †				6.0pØ	DPE	TO18	Ø	
89#	BF414	300m*	560M§	2.9m	§J	40	30 *	4.0	25m	10u	10Ø	1.0mØ	80 †					PE†	u99	A	
90	2N4207†	300m	650M§△	1.7m	§J	6.0	6.0	4.5	50m	.01u§Ø	.30Ø	10mØ	50 †△				3pØ		TO18	AØ	
91	2N4208†	300m	700M§△	1.7m	§J	12	12	4.5	50m	.01u§Ø	.30Ø	10mØ	30 †△				3pØ		TO18	AØ	
92#	BSX35†	300m	700M§	1.7m	§J	6.0	6.0	4.0		20n§	.30Ø	10mØ	70 †#				1.8p	DPE	TO18	AØ	
93	FT1702†	300m	700M§	1.7m	§J	12	12	4.0		.01u§Ø	.30Ø	10mØ	63 †#				4pØ	DPE	TO18	AØ	
94#	2SA711†	300m	800M§△	2.4m	§J	50	40	5.0	100m	100nØ	1.0Ø	10mØ	70 †△				4.0pØ	E	TO18	AØ	
95	2N4209†	300m	850M§△	1.7m	§J	15	15	4.5	50m	.01u§Ø	.30Ø	10mØ	50 †△				3pØ		TO18	AØ	
96	MD5000*	300m	900M§	1.9m	§J	20	15	5.0	50m	10nØ	1.0Ø	3.0mØ	50 †				1.7pØ	ANØ	L66b		
97	MD5000A*	300m	900M§	1.9m	§J	20	15	5.0	50m	10nØ	1.0Ø	3.0mØ	50 †				1.7pØ	ANØ	L66b		
98	MD5000B*	300m	900M§	1.9m	§J	20	15	5.0	50m	10nØ	1.0Ø	3.0mØ	50 †				1.7pØ	ANØ	L66b		
99	2N4080	300m	1.0G§△	1.7m	§S	20	15	3.0	50m	.01uØ	1.0Ø	3.0mØ	20 †△				1.7p$	Ø	TO72	GØ	
100#	2SA801	300m	3.0G§	1.7m	§J	20	12	3.0	50m	100n	5.0	15m	60 †				1.0p$	E	u78	GJ	
101#	OC207	310m	2.0M§	2.5m	§J	50	50	12	250m	.50uØ	6.0Ø	10mØ	50				100pØ	A	R8		
102	HEP739-RT	310m♦	4.0M§		†J	40	35 $	25	150m$	100n$	10		250 †						TO92	A	
103	MPSL51	310m	60M§△	2.8m	†J	100	100	4.0	600m	1.0uØ	10Ø	1.0mØ	20 △				8.0pØ	AN	TO92	A	
104#	BCX17	310m	100M§	2.5m	§J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †△				8.0p$	PE†	u56	A	
105▼#	BCX17R	310m	100M§	2.5m	§J		45	5.0	500m	100n	1.0Ø	100mØ	100 †△				8.0p$	PE†	u56	C	
106#	BCX18	310m	100M§	2.5m	§J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †△				8.0p$	PE†	u56	A	
107▼#	BCX18R	310m	100M§	2.5m	§J		25	5.0	500m	100n	1.0Ø	100mØ	100 †△				8.0p$	PE†	u56	C	
108	HEPS0006-RT	310m♦	100M§		†J	30	30 $	3.0	50m$	100n$			450 †						TO92	A	
109	MPS3638†	310m	100M§△	2.8m	#J	25	25	4.0	500m	.04uØ	10Ø	10mØ	20 †△	1.2mØ	1.5kØ	26 ☑	20pØ	EA	TO92	A	
110	MPS3702	310m	100M§△	2.8m	†J	40	25	5.0	200m	.10uØ	5.0Ø	50mØ	60 †△				12pØ	EA	TO92	A	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M P MAX	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	MPS3703	310m	100M§Δ	2.8m	†J	50	30	5.0	200m	.10uØ	5.0Ø	50mØ	30 †Δ				12pØ	EA	TO92	A
2	HEP717-RT	310m♦	120M§		†J	25	25 $	4.0	100m$	100n$	15		350 †						TO92	A
3	MPS3638A†	310m	150M§Δ	2.8m	#J	25	25	4.0	500m	.04uØ	10Ø	10mØ	100 †Δ	1.2mØ	2.0kØ	15 Ø	10pØ	EA	TO92	A
4#	BCY78IX†	310m*	180M§	2.0m	§J		32	5.0	200m	100n§	5.0Ø	2.0mØ	330	30u	4.5k	2.0	4.5p$	PEØ	TO18	AØ
5#	BCY78VII†	310m*	180M§	2.0m	§J		32	5.0	200m	100n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	4.5p$	PEØ	TO18	AØ
6#	BCY78VIII†	310m*	180M§	2.0m	§J		32	5.0	200m	100n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	4.5p$	PEØ	TO18	AØ
7#	BCY78X†	310m*	180M§	2.0m	§J		32	5.0	200m	100n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	4.5p$	PEØ	TO18	AØ
8#	BCY79IX†	310m*	180M§	2.0m	§J		45	5.0	200m	100n§	5.0Ø	2.0mØ	330	50u	4.5k	2.0	4.5p$	PEØ	TO18	AØ
9#	BCY79VII†	310m*	180M§	2.0m	§J		45	5.0	200m	100n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	4.5p$	PEØ	TO18	AØ
10#	BCY79VIII†	310m*	180M§	2.0m	§J		45	5.0	200m	100n§	5.0Ø	2.0mØ	260	30u	3.6k	2.0	4.5p$	PEØ	TO18	AØ
11	A5T4125†	310m	200M§Δ	2.8m	†S	30	30 *	4.0	200m	50nØ	10Ø	2.0mØ	50 Δ				4.5pØ	PEØ	X55	A
12	EN3905†	310m	200M§Δ	2.8m	†J	40	40	5.0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.5pØ	DPEØ	TO106	A
13	GET3905	310m	200M§Δ	2.8m	†J	40	40	5.0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.5p$Ø	Ø	X55a	B
14	HEP57-RT	310m♦	200M§		†J	25	25 $	5.0	200m$	100n$	20		350 †						TO92	A
15	HEP715-RT	310m♦	200M§		†J	50	40 $	4.0	200m$	500n$	10		120 †						TO92	A
16	MPS3644	310m	200M§Δ	2.8m	#J	45	45	5.0	500m	35nØ	10Ø	150mØ	100 †Δ#				8.0p	PEΔ	TO92	A
17	MPS3645	310m	200M§Δ	2.8m	#J	60	60	5.0	500m	35nØ	10Ø	150mØ	100 †Δ#				8.0p	PEΔ	TO92	A
18	A5T4126†	310m	250M§Δ	2.8m	†S	25	25 *	4.0	200m	50nØ	10Ø	2.0mØ	120 Δ				4.5pØ	PEØ	X55	A
19	EN3906†	310m	250M§Δ	2.8m	†J	40	40	5.0	200m	50n#	10Ø	1.0mØ	100 Δ	60uØ	12kØ	10 Ø	4.5pØ	DPEØ	TO106	A
20	GET3906	310m	250M§Δ	2.8m	†J	40	40	5.0	200m	50n#	10Ø	1.0mØ	100 Δ	60uØ	12kØ	10 Ø	4.5p$Ø	Ø	X55a	B
21	MPS6533	310m	260M§	2.8m	†J	40	40	4.0	600m	.05uØ	1.0Ø	100mØ	40 †Δ				6pØ	EA	TO92	A
22	MPS6534	310m	260M§	2.8m	†J	40	40	4.0	600m	.05uØ	1.0Ø	100mØ	90 †Δ				6pØ	EA	TO92	A
23	MPS6535	310m	260M§	2.8m	†J	30	30	4.0	600m	.10uØ	1.0Ø	100mØ	30 †Δ				6pØ	EA	TO92	A
24	HEP716-RT	310m♦	300M§		†J	40	40 $	5.0	600m$	500n$	10		110 †						TO92	A
25	MPS6522	310m	340M§	2.8m	†J	25	25	4.0	100m	.05uØ	10Ø	2.0mØ	200 †Δ				4pØ	EAØ	TO92	A
26	MPS6523	310m	340M§	2.8m	†J	25	25	4.0	100m	.05uØ	10Ø	2.0mØ	300 †Δ				4pØ	EAØ	TO92	A
27	MPSH85	310m	350M§Δ	2.8m	§J	30	30	3.0		100nØ	10Ø	2.5mØ	20 †Δ					ANØ	u96	A
28	2N5910†	310m	700M§Δ	2.8m	†S	20	20	4.5	50m	10n§	.50Ø	1.0mØ	15 †Δ				3.0p$Ø		TO106	A
29	MPSL07†	310m	1.0G§	2.8m	†J	6.0	6.0	4.5	80m	10n§	3.0Ø	10mØ	30 †Δ				1.9p	AN	TO92	A
30	MPSL08†	310m	1.2G§	2.8m	†J	12	12	4.5	80m	10n§	3.0Ø	10mØ	30 †Δ				1.9p	AN	TO92	A
31	2N978	330m	65.MΔ	2.6m	§J	30	20	5.0		5.0uØ	10Ø	150mØ	38 †#				45pØ	PDΔ	TO18	AØ
32	2N5455†	340m	450M§Δ	1.9m	§J	15	15	4.5	300m	50n§	1.0Ø	100m	30 †Δ#				6p$Ø		TO52	AØ
33	2N1196	350m		2.0m	§J	70	70	4.0	100m	250nØ	10Ø	2.0mØ	5.0 †Δ				4.0pØ		TO5	A
34	2N1197	350m		2.0m	§J	70	70	4.0	100m	250nØ	10Ø	2.0mØ	5.0 †Δ				4.0pØ		TO5	A
35	JAN2N1197	350m		2.0m	§J	70	70	4.0		250nØ							4.0p	D	TO5	A
36#	BCY21	350m	500k	2.7m	§J	50	50	30	50m	20nØ	6.0Ø	1.0mØ	10 Δ	15u	600	3.0	45p	PEM	TO5	
37#	BCY23	350m	500k	2.7m	§J	10	30	30	50m	20nØ	6.0Ø	1.0mØ	20 Δ	50u	1.4k	4.0	45p	PEM	TO5	
38#	BCY26	350m	600k	2.7m	§J	30	30	30	50m	20nØ	6.0Ø	1.0mØ	10 Δ	20u	600	3.0	45p	PEM	TO5	
39	BCY19	350m	.70M	2.8m	§J	50	50	30	50m	.02uØ	6.0Ø	1.0mØ	20 Δ	25u	1.4k	4.0	45p	AØ	TO5	
40#	BCY24	350m	1.0M	2.7m	§J	30	10	30	50m	20nØ	6.0Ø	1.0mØ	10 Δ	20u	600	3.0	45p	PEM	TO5	
41	BCY17	350m	1.2M	2.8m	§J	30	30	30	50m	.02uØ	6.0Ø	1.0mØ	20 Δ	35u	1.4k	4.0	45p	AØ	TO5	
42	BCY18	350m	2.0M	2.8m	§J	30	30	30	50m	.02uØ	6.0Ø	1.0mØ	40 Δ	40u	1.8k	5.0	45p	AØ	TO5	
43#	BCY25	350m	2.5M	2.7m	§J	30	10	30	50m	20nØ	6.0Ø	1.0mØ	40 Δ	50u	1.8k	5.0	45p	PEM	TO5	
44♦	MPS404†	350m	4.0MΔ	2.8m	§J	25	24 *	12	150m	100nØ	.15Ø	12mØ	100 †#				20pØ	ANT	TO92	A
45♦	MPS404A†	350m	4.0MΔ	2.8m	§J	40	35 *	25	150m	100nØ	.15Ø	12mØ	100 †#				20pØ	ANT	TO92	A
46#	BCY90	350m	15.M§	2.9m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO18	AØ
47#	BCY91	350m	15.M§	2.9m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO18	AØ
48#	BCY92†	350m	15.M§	2.9m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	70				4p$	PEØ	TO18	AØ
49#	BCY93	350m	15.M§	2.9m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO18	AØ
50#	BCY94	350m	15.M§	2.9m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO18	AØ
51#	BCY95†	350m	15.M§	2.9m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	70				4p$	PEØ	TO18	AØ
52#	BCY96	350m	15.M§	2.9m	§J	90	90	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO18	AØ
53#	BCY97	350m	15.M§	2.9m	§J	90	90	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO18	AØ
54#	TCH98†	350m	15.M§	2.9m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	125				4p$	PEØ	TO18	AØ
55#	TCH99†	350m	15.M§	2.9m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	125				4p$	PEØ	TO18	AØ
56#	BFS37	350m	30M§Δ	2.3m	§J	45	45 Ø	5.0	500m#	10n	5.0Ø	10uØ	100 Δ†				8.0pØ	Ø	u53	F
57#	BFS37A	350m	30M§Δ	2.3m	§J	30	30 Ø	5.0	500m#	100n	5.0Ø	100uØ	100 Δ†				8.0pØ	Ø	u53	F
58♦	2N5086	350m	40M§Δ	2.8m	§J	50	50	3.0	50m	.05uØ	5.0Ø	1.0mØ	150 Δ				4p$Ø	Ø	TO92	A
59♦	2N5087	350m	40M§Δ	2.8m	§J	50	50	3.0	50m	.05uØ	5.0Ø	1.0mØ	250 Δ				4p$Ø	Ø	TO92	A
60	2N5254*	350m	40M§Δ	3.4m	♦J	40	40	5.0	50m	.01uØ	5.0Ø	1.0mØ	70 Δ	70uØ	25kØ	12 Ø		Ø	L17t	
61	2N5255*	350m	40M§Δ	3.4m	♦J	40	40	5.0	50m	.01uØ	5.0Ø	1.0mØ	175 Δ	70uØ	25kØ	12 Ø	6p$Ø	Ø	L17t	
62	2N5256*	350m	40M§Δ	3.4m	♦J	40	40	5.0	50m	.01uØ	5.0Ø	1.0mØ	175 Δ	70uØ	25kØ	12 Ø	6p$Ø	Ø	L17t	
63	MPSD52	350m	40M§Δ	2.8m	§J	140	140	4.0	50m	100nØ	10Ø	10mØ	25 †Δ					ANT	TO92	A
64	MPSD53	350m	40M§Δ	2.8m	§J	100	100	4.0	50m	100nØ	10Ø	10mØ	25 †Δ					ANT	TO92	A
65	2N5226	350m	50M§Δ	2.8m	§S	25	25	4.0	500m	300nØ	10Ø	50mØ	30 Δ				20p$Ø		TO92	A
66#	BFS44	350m	60M§Δ	2.3m	§J	60	30 Ø	5.0	1.0 #	100nØ	10Ø	10mØ	25 Δ†				25pØ		u53	F
67#	BFS45	350m	60M§Δ	2.3m	§J	60	60 Ø	5.0	1.0 #	100nØ	10Ø	10mØ	35 Δ†				25pØ		u53	F
68	2N4354†	350m	100M§Δ	3.4m	♦J	60	60	5.0	500m	50nØ	10Ø	100uØ	25 †Δ				3.0p$	Ø	R124b	A
69	2N4355†	350m	100M§Δ	3.4m	♦J	60	60	5.0	500m	50nØ	10Ø	100uØ	60 †Δ				3.0p$	Ø	R124b	A
70	2N4356†	350m	100M§Δ	3.4m	♦J	80	80	5.0	500m	50nØ	10Ø	100uØ	25 †Δ				3.0p$	Ø	R124b	A
71	2N5221	350m	100M§Δ	2.8m	§S	15	15	3.0	500m	100nØ	10Ø	50mØ	30 Δ				15p$Ø		TO92	A
72	2N5227	350m	100M§Δ	2.8m	§S	30	30	3.0	50m	100nØ	10Ø	2.0mØ	50 Δ				5.0p$Ø		TO92	A
73♦	2N5400	350m	100M§Δ	2.8m	§J	130	120	5.0	600m	100nØ	10Ø	1.0mØ	30 Δ				6.0pØ	Ø	TO92	A
74♦	2N5401	350m	100M§Δ	2.8m	§J	160	150	5.0	600m	50nØ	10Ø	1.0mØ	40 Δ				6.0pØ	Ø	TO92	A
75#	BCW67DA†	350m	100M§Δ		§J		32	5.0	800m		1.0Ø	100mØ	100 †Δ				18pØ	PE	u56	
76#	BCW67DB†	350m	100M§Δ		§J		32	5.0	800m		1.0Ø	100mØ	160 †Δ				18pØ	PE	u56	
77#	BCW67DC†	350m	100M§Δ		§J		32	5.0	800m		1.0Ø	100mØ	250 †Δ				18pØ	PE	u56	
78#	BCW68DF†	350m	100M§Δ		§J		45	5.0	800m		1.0Ø	100mØ	100 †Δ				18pØ	PE	u56	
79#	BCW68DG†	350m	100M§Δ		§J		45	5.0	800m		1.0Ø	100mØ	160 †Δ				18pØ	PE	u56	
80#	BCW68DH†	350m	100M§Δ		§J		45	5.0	800m		1.0Ø	100mØ	250 †Δ				18pØ	PE	u56	
81	MPSD55	350m	100M§Δ	2.8m	§J	25	25		500m	1.0uØ	5.0Ø	50mØ	50 †Δ#					ANT	TO92	A
82	MPSD56	350m	100M§Δ	2.8m	§J		25	4.0	50m	1.0uØ	5.0Ø	1.0mØ	40 †Δ					ANT	TO92	A
83♦	2N4402†	350m	150M§Δ	2.8m	§J	40	40	5.0	600m	100n#	10Ø	1.0mØ	30 Δ	100uØ	7.5kØ	8.0 Ø	8.5p$Ø		TO92	A
84#	BC157	350m	150M§	3.5m	♦J	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75 Δ				4.5p$	PE†	MM10	A
85#	BC158	350m	150M§	3.5m	♦J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	75 Δ				4.5p$	PE†	MM10	A
86#	BC158A	350m	150M§	3.5m	♦J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	125 Δ				4.5p$	PE†	MM10	A
87#	BC158B	350m	150M§	3.5m	♦J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	240 Δ				4.5p$	PE†	MM10	A
88#	BC159	350m	150M§	3.5m	♦J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	125 Δ				4.5p$	PE†Ø	MM10	A
89#	BC159A	350m	150M§	3.5m	♦J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	125 Δ				4.5p$	PE†Ø	MM10	A
90#	BC159B	350m	150M§	3.5m	♦J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	240 Δ				4.5p$	PE†Ø	MM10	A
91#	BFS40	350m	150M§Δ	2.3m	§J	45	35 Ø	5.0	500m#	500n	6.0Ø	100uØ	20 Δ†				5.0pØ		u53	F
92#	BFS40A	350m	150M§Δ	2.3m	§J	25	25 Ø	5.0	500m#	500n	6.0Ø	10mØ	50 Δ†				5.0pØ		u53	F
93#	BFS41	350m	150M§Δ	2.3m	§J	45	45 Ø	5.0	500m#	50n	6.0Ø	10mØ	40 Δ†				5.0pØ		u53	F
94	MPS8598	350m	150M§Δ	2.8m	§J	60	60	5.0	200m	100n	5.0Ø	1.0mØ	100 †Δ				8.0pØ	AN	TO92	A
95	MPS8599	350m	150M§Δ	2.8m	§J	80	80	5.0	200m	100n	5.0Ø	1.0mØ	100 †Δ				8.0pØ	AN	TO92	A
96#	2V205*	350m	160M§	2.3m	§J	15		3.0		.05uØ	1.0Ø	1.0mØ	42 †				8.0p	DPEØ	L17a	
97	2N3673†	350m	200M§Δ	2.0m	§S	60	50	5.0	600m	10nØ	10Ø	.10mØ	55 †Δ				9pØ		TO46	AØ
98	2N3905†	350m	200M§Δ	2.8m	§J	40	40	5.0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.5pØ	Ø	TO92	A
99♦	2N4125	350m	200M§Δ	2.8m	§J	30	30	4.0	200m	.05uØ	10Ø	2.0mØ	50 Δ				4.5p$Ø	Ø	TO92	A
100♦	2N4403†	350m	200M§Δ	2.8m	§J	40	40	5.0	600m	100n#	10Ø	1.0mØ	60 Δ	100uØ	15kØ	8.0 Ø	8.5p$Ø		TO92	A
101	2N4452†	350m	200M§Δ	2.0m	§J	45	45	5.0	600m	.01uØ	10Ø	10mØ	135 Δ	800uØ	2.3kØ	15 Ø	8p$Ø		TO46	A
102#	BCY70†	350m	200M§Δ	2.0m	§J	50	40	5.0	200m#	500n	1.0Ø	100u	40 †Δ				6.0p$Ø	PEØ	TO18	AØ
103#	BCY71	350m	200M§Δ	2.0m	§J	45	45	5.0	200m#	500n	10Ø	1.0mØ	100 Δ	60uØ	12kØ	200m	6.0p$Ø	PEØ	TO18	AØ
104#	BCY72†	350m	200M§Δ	2.0m	§J	25	25	5.0	200m#	500n	1.0Ø	1.0mØ	40 †Δ				6.0p$Ø	PEØ	TO18	AØ
105	MPS6516	350m	200M§	2.8m	§J	40	40	4.0	100m	50nØ	10Ø	2.0mØ	50 Δ				4.0pØ	ANØ	TO92	A
106	MPS6517	350m	200M§	2.8m	§J	40	40	4.0	100m	50nØ	10Ø	2.0mØ	90 Δ				4.0pØ	ANØ	TO92	A
107	2N3906†	350m	250M§Δ	2.8m	§J	40	40	5.0	200m	50n#	10Ø	1.0mØ	100 Δ	60uØ	12kØ	10 Ø	4.5pØ	Ø	TO92	A
108♦	2N4126	350m	250M§Δ	2.8m	§J	25	25	4.0	200m	.05uØ	10Ø	2.0mØ	120 Δ				4.5p$Ø	Ø	TO92	A
109♦	2N5208	350m	300M§Δ	2.8m	§J	30	25	3.0	50m	.01uØ	10Ø	2.0mØ	20 †Δ				1p$Ø	Ø	TO92	C
110	2N5228†	350m	300M§Δ	2.8m	§S	5.0	5.0	3.0	50m	100n§	.30Ø	10mØ	30 †Δ				5.0p$Ø		TO92	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A X M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #L C E O A D D E Y200 s/a TO200 Ser.
1	MPS6518	350m	340M§	2.8m	§J	40	40	4.0	100m	50nØ	10Ø	2.0mØ	150 Δ				4.0pØ☑	ANØ	TO92 A
2	MPS6519	350m	340M§	2.8m	§J	25	25	4.0	100m	50nØ	10Ø	2.0mØ	250 Δ				4.0pØ☑	ANØ	TO92 A
3#	BCY71A	350m	380M§	2.0m	§J	45	45	5.0	200m	500n	10Ø	1.0mØ	260	30u	5.8k	3.5	4.5p$	PEØ	TO18 AØ
4#	BSV37†	350m	400M§Δ	2.3m	§J	12	12 ☑	4.0	500m#	100n	.50Ø	30mØ	40 Δ†				6.0pØ☑		u53 F
5♦	MPS3640†	350m	500M§Δ	2.8m	§J	12	12	4.0	80m	10n§	.30Ø	10mØ	30 †Δ#				3.5pØ☑	AN†	X131a A
6▼	MD3250AF*	350m	600M§	2.0m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	75 †#				2.5p	AN*	L17s
7▼	MD3250F*	350m	600M§	2.0m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	75 †#				2.5p	AN	L17s
8▼	MD3251AF*	350m	600M§	2.0m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	100 †#				2.5p	AN*	L17s
9▼	MD3251F	350m	600M§	2.0m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	100 †#				2.5p	AN	L17s
10▼	MD7004F	350m	675M§	2.0m	§J	30	13 *	4.0	200m	100nØ	2.0Ø	10mØ	100 †#				2.5p	AN	L17s
11▼#	BF606	350m	700M§		§J	35	30	6.0	25m				110 †				700f$	PE	TO92 C
12	MPSM83	350m	950M§	2.8m	§J	30	30	3.0		100nØ	10Ø	2.5mØ	20 †Δ					ANØ	u102 U
13	MPSH81	350m	1.2G§	2.8m	§J	20	20	3.0		100nØ	10Ø	5.0mØ	60 †Δ				850f$☑	E	TO92 C
14	2N4058	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	.10mØ	100 Δ					†	TO92 B
15	2N4059	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	45 Δ					†	TO92 B
16	2N4060	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	45 Δ					†	TO92 B
17	2N4061	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	90 Δ					†	TO92 B
18	2N4062	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	180 Δ					†	TO92 B
19	2N5354	360m		3.6m	§S	25	25	4.0	500m	100n	10Ø	2.0mØ	32 Δ				8.0p$☑		TO98 B
20	2N5355	360m		3.6m	§S	25	25	4.0	500m	100n	10Ø	2.0mØ	80 Δ				8.0p$☑		TO98 B
21	2N5356	360m		3.6m	§S	40	40	4.0	500m	100n	10Ø	2.0mØ	32 Δ				8.0p$☑		TO98 B
22	2N5365	360m		3.6m	§S	40	40	4.0	500m	100n	10Ø	2.0mØ	32 Δ				8.0p$☑		R67b B
23	2N5366	360m		3.6m	§S	40	40	4.0	500m	100n	10Ø	2.0mØ	80 Δ				8.0p$☑		TO98 B
24	2N5367	360m		3.6m	§S	40	40	4.0	500m	100n	10Ø	2.0mØ	200 Δ				8.0p$☑		TO98 B
25	2N6076	360m		3.6m	§S	25	25	4.0	100m	100n	10Ø	10mØ	100 Δ				13p$☑		TO98 B
26▼	2N6223	360m		2.8m	§S	60	60	5.0	100m	50n	5.0Ø	2.0mØ	75 Δ				4.0p$☑		X93b A
27▼	2N6225	360m		2.8m	§S	60	60	5.0	100m	50n	5.0Ø	2.0mØ	150 Δ				4.0p$☑		X93b A
28#	2SA741H†	360m		2.4m	§J	20	20	4.0	100m	200nØ	.50Ø	30mØ	30 †Δ					PE	TO18 A
29	A5T4058	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 Δ					PEØ	X55 A
30	A5T4059	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	X55 A
31	A5T4060	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	X55 A
32	A5T4061	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	90 Δ					PEØ	X55 A
33	A5T4062	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	180 Δ					PEØ	X55 A
34	LDS257	360m		2.9m	§J	20	15	10	30m	10n§	.50Ø	1.0mØ	60 †Δ				10pØ☑	PEΔ	TO122 P
35	SS29A4	360m					25				4.5Ø	50mØ	30 †Δ				8.0pØ☑		
36	SS29A5	360m					25				4.5Ø	50mØ	75 †Δ				8.0pØ☑		
37	TPS6516	360m		2.8m	§J	40	40 §	4.0	100m	50nØ	10Ø	2.0mØ	50 †Δ				4.0p$☑	PL	X55a A
38	TPS6517	360m		2.8m	§J	40	40 §	4.0	100m	50nØ	10Ø	2.0mØ	90 †Δ				4.0p$☑	PL	X55a A
39	TPS6518	360m		2.8m	§J	40	40 §	4.0	100m	50nØ	10Ø	2.0mØ	150 †Δ				4.0p$☑	PL	X55a A
40	TPS6519	360m		2.8m	§J	25	25 §	4.0	100m	50nØ	10Ø	2.0mØ	250 †Δ				4.0p$☑	PL	X55a A
41	TPS6522	360m		2.8m	§J	25	25 §	4.0	100m	50nØ	10Ø	2.0mØ	200 †Δ				4.0p$☑	PLØ	X55a A
42	TPS6523	360m		2.8m	§J	25	25 §	4.0	100m	50nØ	10Ø	2.0mØ	300 †Δ				4.0p$☑	PLØ	X55a A
43	NPS404†	360m	4.0MΔ	2.9m	§J	25	24	12	150m	100nØ	.15Ø	12mØ	30 †Δ				20pØ☑	PL	TO92 A
44	NPS404A†	360m	4.0MΔ	2.9m	§J	40	35	25	150m	100nØ	.15Ø	12mØ	30 †Δ				20pØ☑	PL	TO92 A
45#	BC326	360m	12M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	150 Δ	40u☑	24k☑	8.0 ☑	9.0pØ☑	PLØ	TO18 AØ
46#	BC325	360m	15M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	80 Δ	30u☑	13k☑	8.0 ☑	9.0pØ☑	PLØ	TO18 AØ
47	2N3798A	360m	30M§Δ	2.0m	§S	90	90	5.0	50m	10nØ	10Ø	1.0mØ	150 Δ	60u☑	30k☑	25 ☑	4.0pØ	Ø	TO18 AØ
48	2N3799A	360m	30M§Δ	2.0m	§S	90	90	5.0	50m	10nØ	10Ø	1.0mØ	300 Δ	60u☑	40k☑	25 ☑	4.0pØ	Ø	TO18 AØ
49	2N3962	360m	40M§Δ	2.0m	§J	60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6pØ	Ø	TO18 AØ
50	2N3963	360m	40M§Δ	2.0m	§J	80	80	6.0	200m	.01uØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6pØ	Ø	TO18 AØ
51#	BFW20	360m	40M§Δ	2.0m	§J	60	60	6.0		.01u§	5.0Ø	1.0mØ	300	19u	8k	10 ☑	6pØ	DPLØ	TO18 AØ
52#	BFW21	360m	40M§Δ	2.0m	§J	80	80	6.0		.01u§	5.0Ø	1.0mØ	300	19u	8k	10 ☑	6pØ	DPLØ	TO18 AØ
53#	BFX37	360m	40M§Δ	2.0m	§J	60	60 Ø	6.0	50m	.02u§	5.0Ø	1.0mØ	200 †				5.0p	DPLØ	TO18
54#	BFX65	360m	40M§Δ	2.7m	§J	45	45	6.0	50m	10n§	5.0Ø	1.0mØ	200	19u	7.0k	3.0	6.5pØ	PEØ	TO18 AØ
55	TZ581	360m	40M§	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	325	100nb	26		5.0p	PLØ	TO98 B
56	TZ582	360m	40M§	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	225	100nb	26		5.0p	PLØ	TO98 B
57	2N3039†	360m	50M§Δ	2.4m	§S	50	35	5.0	500m	.02uØ	10Ø	10mØ	20 Δ	250u☑	600 ☑		40pØ☑		TO50 A
58	2N3040†	360m	50M§Δ	2.4m	§S	40	30	5.0	500m	.02uØ	10Ø	10mØ	40 Δ	500u☑	1.2k☑		40pØ☑		TO50 A
59	2N3964	360m	50M§Δ	2.0m	§J	45	45	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 Δ	50u☑	20k☑	10 ☑	6pØ	Ø	TO18 AØ
60	2N3965	360m	50M§Δ	2.0m	§J	60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 Δ	50u☑	20k☑	10 ☑	6pØ	Ø	TO18 AØ
61#	BFW22	360m	50M§Δ	2.0m	§J	45	45	6.0		.01u§	5.0Ø	1.0mØ	360	25u	10k	10 ☑	6pØ	DPLØ	TO18 AØ
62#	BFW23	360m	50M§Δ	2.0m	§J	60	60	6.0		.01u§	5.0Ø	1.0mØ	360	25u	10k	10 ☑	6pØ	DPLØ	TO18 AØ
63	TIS38	360m	50M§Δ	2.9m	§S	35	32	4.0	50m	.10uØ	9.0Ø	1.0mØ	25 †Δ				1.7p$	PE†	TO92 B
64#	BFT20	360m	60M§Δ	2.0m	§A	80	35	6.0	1.0	50nØ	6.0Ø	1.0mØ	10 Δ				8.0pØ☑	PE	TO18 A
65#	BFT21	360m	60M§Δ	2.0m	§A	60	30	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0pØ☑	PE	TO18 A
66#	BFT22	360m	60M§Δ	2.0m	§A	40	20	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0pØ☑	PE	TO18 A
67#	V741	360m	60M§	6.8m	§J	30	30	5.0		50u	5.0Ø	5.0uØ	180 †	22u	6.6	3.8	5.0p	PLØ	TO18 A
68	TIS37	360m	80M§Δ	2.9m	§S	35	32	6.0	50m	.10uØ	9.0Ø	1.0mØ	45 †Δ				1.7p$	PE†Ø	TO92 B
69	D29F1	360m	90M§Δ	3.6m	§S	40	40	4.0	100m	50n	5.0Ø	2.0mØ	60 †Δ				4.0p$☑		R67b B
70	D29F2	360m	90M§Δ	3.6m	§S	40	40	4.0	100m	50n	5.0Ø	2.0mØ	100 †Δ				4.0p$☑		R67b B
71	D29F3	360m	90M§Δ	3.6m	§S	40	40	4.0	100m	50n	5.0Ø	2.0mØ	150 †Δ				4.0p$☑		R67b B
72	D29F4	360m	90M§Δ	3.6m	§S	40	40	4.0	100m	50n	5.0Ø	2.0mØ	250 †Δ				4.0p$☑		R67b B
73	D29F5	360m	90M§Δ	3.6m	§S	60	60	4.0	100m	50n	5.0Ø	2.0mØ	60 †Δ				4.0p$☑		R67b B
74	D29F6	360m	90M§Δ	3.6m	§S	60	60	4.0	100m	50n	5.0Ø	2.0mØ	100 †Δ				4.0p$☑		R67b B
75	D29F7	360m	90M§Δ	3.6m	§S	60	60	4.0	100m	50n	5.0Ø	2.0mØ	150 †Δ				4.0p$☑		R67b B
76	TIS104	360m	90MΔ§	2.8m	§S	60	60	6.0	50m	50nØ	5.0Ø	1.0mØ	210	15u	6.0k	1.3	4.0pØ$	PE†	X55 A
77	2N869	360m	100M§Δ	2.0m	§J	25	18	5.0		.01uØ	5.0Ø	10mØ	20 †#Δ				9pØ☑		TO18 AØ
78	2N995	360m	100M§Δ	2.0m	§J	20	15	4.0		5.0nØ	1.0Ø	20mØ	35 †#Δ				10pØ☑		TO18 AØ
79	2N995A†	360m	100M§Δ	2.0m	§J	20	15	4.0		5.0nØ	1.0Ø	20mØ	35 †Δ#				6.0pØ☑		TO18 AØ
80	2N2695†	360m	100M§Δ	2.0m	§J	25	25	4.0	500m	.02uØ	1.0Ø	50mØ	30 #†Δ	1.2mØ☑	1.5kØ☑	26 ☑	20pØ☑	PLE	TO46 AØ
81	2N2696	360m	100M§Δ	2.0m	§J	25	25	4.0	500m	25nØ	10Ø	10mØ	25 Δ	1.2mØ☑	1.5kØ☑	26 ☑	20pØ☑		TO18 AØ
82	2N3702	360m	100M§Δ	2.8m	§S	40	25	5.0	200m	100nØ	5.0Ø	50mØ	60 †#Δ				12pØ☑		TO92 B
83	2N3703	360m	100M§Δ	2.8m	§S	50	30	5.0	200m	100nØ	5.0Ø	50mØ	30 †#Δ				12pØ☑		TO92 B
84	2N5447	360m	100M§Δ	2.9m	§S	40	25	5.0	200m	.10uØ	5.0Ø	50mØ	60 †#Δ				12p$		X55 A
85	2N5448	360m	100M§Δ	2.9m	§S	50	30	5.0	200m	.10uØ	5.0Ø	50mØ	30 †#Δ				12p$		X55 A
86#	BFT69	360m	100M§Δ	2.0m	§A	90	80	5.0	1.0	100nØ	10Ø	100mØ	50 †Δ				10pØ☑	PE	TO18 A
87#	BFT70	360m	100M§Δ	2.0m	§A	70	60	5.0	1.0	100nØ	10Ø	100mØ	75 †Δ				10pØ☑	PE	TO18 A
88#	BFT71	360m	100M§Δ	2.0m	§A	60	50	5.0	1.0	100nØ	10Ø	100mØ	100 †Δ				10pØ☑	PE	TO18 A
89	SS3638	360m	100M§Δ				25				1.0Ø	50mØ	30 †Δ				20pØ☑	Δ	
90	TP3638†	360m	100M§Δ	2.8m	§J	25	25	4.0	500m	35n§	10Ø	10mØ	25 Δ	1.2mØ☑	2.0kØ☑	26 ☑	20p$☑	PL	X55a A
91	LDA454	360m	125M§	2.9m	§J	35	35	5.0	30m	10nØ	5.0Ø	10uØ	100 †Δ				6.0pØ☑	PEØ	TO122 P
92	LDA455	360m	125M§	2.9m	§J	35	35	5.0	30m	10nØ	5.0Ø	10uØ	200 †Δ				6.0pØ☑	PEØ	TO122 P
93	2N3073†	360m	130M§Δ	2.0m	§J	60	60	4.0	500m	.01u§	10Ø	10mØ	25 Δ	1.2mØ☑	1.5kØ☑	26 ☑	10pØ☑		TO18 AØ
94	2N3121†	360m	130M§Δ	2.0m	§J	45	45	4.0	500m	.01u§	10Ø	10mØ	25 Δ	1.2mØ☑	1.5kØ☑	26 ☑	10pØ☑		TO18 AØ
95	D29A4	360m	140M§Δ	2.8m	§J	35	25	4.0	500m	100n	10Ø	2.0mØ	32 Δ				8.0p$☑	PL	TO98 B
96	D29A5	360m	140M§Δ	2.8m	§J	35	25	4.0	500m	100n	10Ø	2.0mØ	80 Δ				8.0p$☑	PL	TO98 B
97	2N5372†	360m	150M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †Δ				10p$		X93 A
98	2N5373†	360m	150M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	50 †Δ				10p$		X93 A
99	2N5374†	360m	150M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	100 †Δ				10p$		X93 A
100	2N5375†	360m	150M§Δ	2.9m	§J	40	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †Δ				10p$		X93 A
101#	BC477	360m	150M§	6.9m	§	80	90	6.0		10n	5.0Ø	2.0mØ	50 †Δ				4.0p	PE	TO18 A
102#	BC477A	360m	150M§	6.9m	§	80	90	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
103#	BC477VI	360m	150M§	6.9m	§	80	90	6.0		10n	5.0Ø	2.0mØ	50 †Δ				4.0p	PE	TO18 A
104#	BC478	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
105#	BC478A	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
106#	BC478B	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
107#	BC479	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	200 †Δ				4.0p	PE	TO18 A
108#	BC479B	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	450 †☑				4.0p	PE	TO18 A
109#	BCW35	360m	150M	2.7m	§	60	45	5.0	600m	10n	5.0Ø	100mØ	100 Δ	5.0u	40k	10	6.0p	PEØ	TO18
110#	ME0404	360m	150M§Δ	2.8m	§J	25	25 *	4.0		100nØ	5.0Ø	50mØ	30 †Δ				12pØ☑	PE	R110c A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	SS3638A	360m	150M§△				25			1.0Ø	50mØ	100 †△				10pØ	△	
2	TP3638A†	360m	150M§△	2.8m	§J	25	25	4.0	500m	35n§	10Ø	10mØ	100 △	1.2mØ	2.0kØ	15 Ø	10p$Ø	PL	X55a A
3	TZ551†	360m	150M§△	2.8m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †△				10p$	PL	TO98 B
4	TZ552†	360m	150M§△	2.8m		60	30	5.0	500m	50nØ	10Ø	1.0mØ	50 †△				10p$	PL	TO98 B
5	TZ553†	360m	150M§△	2.8m		60	30	5.0	500m	50nØ	10Ø	1.0mØ	100 †△				10p$	PL	TO98 B
6	TZ554†	360m	150M§△	2.8m		40	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †△				10p$	PL	TO98 B
7	2N996†	360m	160M△	2.0m	§J	15	12	4.0		5nØ	1.0Ø	20mØ	75 †#	40u	2.0k	1.4	7.5p	PEØ	TO18 AØ
8	2N4359	360m	200M§Ø	2.0m	§J	45	45	5.0	50m	.01uØ	5.0Ø	1.0mØ	700 Ø	60uØ	20kØ	10 Ø	6pØ	Ø	TO18 AØ
9	2N5378	360m	200M§△	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	500nØb	32 Ø		10p$	Ø	X93 A
10	2N5379	360m	200M§△	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	100 △	500nØb	32 Ø		10p$	Ø	X93 A
11	2N5382†	360m	200M§△	2.8m	§J	40	40	5.0	200m	50nØ	10Ø	1.0mØ	50 △#	40uØ	8.0kØ	5.0 Ø	4.5p$Ø	Ø	X93 A
12	A5T2907†	360m	200M§△	2.8m	§S	60	40	5.0	600m	20nØ	10Ø	100uØ	35 †△				8.0pØ	PE†	X55 A
13	A5T3644†	360m	200M§△	2.8m	§S	45	45	5.0	600m	35n§	10Ø	1.0mØ	100 △	300uØ	1.8kØ	3.0 Ø	8.0pØ	PE†	X55 A
14	A5T3645†	360m	200M§△	2.8m	§S	60	60	5.0	600m	35n§	10Ø	1.0mØ	100 △	300uØ	1.8kØ	3.0 Ø	8.0pØ	PE†	X55 A
15	A5T3905†	360m	200M§△	2.8m	§S	40	40	5.0	200m		1.0Ø	10mØ	100 △	60uØ	12kØ	10 Ø	4.5pØ	PE†Ø	X55 A
16#	BFV86†	360m	200M§△	500u	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	50 †△				8pØ	PE	u26a B
17#	BFV86A†	360m	200M§△	500u	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	100 †△				8pØ	PE	u26a B
18#	BFV86B†	360m	200M§△	500u	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	25 †△				8pØ	PE	u26a B
19#	BFV86C†	360m	200M§△	500u	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	40 †△				8pØ	PE	u26a B
20	BSX36†	360m	200M§	2.0m	§J	40	40	5.0	500m	.01uØ	10Ø	.01mØ	50 †				8pØ	DPEØ	TO18 AØ
21	GET2904†	360m	200M§△	3.6m	♦J	60	40	5.0	350m	20nØ	10Ø	100uØ	20 †△				8.0p$Ø	PE	X105
22	GET2905†	360m	200M§△	3.6m	♦J	60	40	5.0	350m	50nØ	10Ø	100uØ	35 †△				8.0p$Ø	PE	X105
23	GET2906†	360m	200M§△	3.6m	♦J	60	40	5.0	350m	20nØ	10Ø	100uØ	20 †△				8.0p$Ø	PE	X93a F
24	GET2907†	360m	200M§△	3.6m	♦J	60	40	5.0	350m	50nØ	10Ø	100uØ	35 †△				8.0p$Ø	PE	X93a F
25	LDA450	360m	200M§△	2.9m	§J	45	30	5.0		10nØ	10Ø	1.0mØ	35 †△				8pØ	PE	u34 P
26	LDA451	360m	200M§△	2.9m	§J	45	30	5.0		10nØ	10Ø	1.0mØ	75 †△				8pØ	PE	u34 P
27	LDA452†	360m	200M§△	2.9m	§J	45	30	5.0	300m	10nØ	10Ø	150mØ	40 †△#				8pØ	PE	u34 P
28	LDA453†	360m	200M§△	2.9m	§J	45	30	5.0	300m	10nØ	10Ø	150mØ	100 †△#				8pØ	PE	u34 P
29#	ME0404-1	360m	200M§△	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	20 †△				10pØ	PE	R110c A
30#	ME0404-2	360m	200M§△	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	40 †△				10pØ	PE	R110c A
31#	ME503	360m	200M§△	2.9m	§J	30	30	30	500m	.10uØ	5.0Ø	50mØ	40 †#△				13pØ	PE△	R110
32	MM3905†	360m	200M§△	2.0m	§J	40	40	5.0	200m	50n#	10Ø	1.0mØ	50 △	1.0u	500	100m	5.0pØ	ANØ	TO52 A
33	NPS6516	360m	200M§	2.9m	§J	40	40	4.0	100m	500nØ	10Ø	2.0mØ	50 †△				4pØ$	PL	TO92 A
34	NPS6517	360m	200M§	2.9m	§J	40	40	4.0	100m	500nØ	10Ø	2.0mØ	50 †△				4pØ$	PL	TO92 A
35	NS3905	360m	200M§△	2.0m	†J	40	40	5.0	200m	50n#	1.0Ø	10mØ	50 △†	40uØ	8.0kØ	5.0 Ø	4.5pØ	Ø	TO18 A
36#	PL4031†	360m	200M§△	2.4m	§S	60	40	5.0	600m	20nØ	10Ø	1.0mØ	25 †△				8pØ	PE	u51
37#	PL4032†	360m	200M§△	2.4m	§S	60	60 *	5.0	600m	10nØ	10Ø	1.0mØ	40 †△				8pØ	PE	u51
38#	PL4033†	360m	200M§△	2.4m	§S	60	40	5.0	600m	20nØ	10Ø	1.0mØ	50 †△				8pØ	PE	u51
39#	PL4034†	360m	200M§△	2.4m	§S	60	60 *	5.0	600m	10nØ	10Ø	1.0mØ	100 †△				8pØ	PE	u51
40	TIS112†	360m	200M§△	2.8m	§S	60	40	5.0	600m	20nØ	10Ø	100uØ	35 †△				8.0pØ	PE†	X55 A
41	TIS138	360m	200M§Ø	2.9m	§S	35	32 *	4.0	50m	100nØ	9.0Ø	1.0mØ	25 †△				1.7 $Ø	PE	X55 A
42	2N3248†	360m	250M§△	2.0m	§J	15	12	5.0	200m	.05u#	1.0Ø	10mØ	50 †#△				8pØ		TO18 AØ
43	2N3250†	360m	250M§△	2.0m	§J	50	40	5.0	200m	.02u#	10Ø	1.0mØ	50 △	40uØ	6.0k	10	6pØ	Ø	TO18 AØ
44	2N3250A†	360m	250M§△	2.0m	§J	60	60	5.0	200m	.02u#Ø	1.0Ø	10mØ	50 †#△	40uØ	6kØ	10 Ø	6pØ	EA△Ø	TO18 AØ
45	JAN2N3250A†	360m	250M§△	2.0m	§S	60	60	5.0	200m	20nØ	10Ø	1.0mØ	50 △	40uØ	6.0kØ	10 Ø	6.0pØ	Ø	TO18 AØ
46	2N3545†	360m	250M§△	2.0m	§J	20	20	5.0	200m	.01u#	1.0Ø	1.0mØ	40 †△				8pØ		TO18 AØ
47	2N5383†	360m	250M§△	2.8m	§J	40	40	5.0	200m	50nØ	10Ø	1.0mØ	100 △#	60uØ	12kØ	10 Ø	4.5p$Ø	Ø	X93 A
48	A5T3906†	360m	250M§△	2.8m	§S	40	40	5.0	200m		1.0Ø	10mØ	50 △	40uØ	8.0kØ	5.0 Ø	4.5pØ	PE†Ø	X55 A
49	LDS202†	360m	250M△§	2.9m	§J	50	40	5.0	200m		1.0Ø	100uØ	40 †△#				6.0pØ	PEØ	TO122 P
50	MM3906†	360m	250M§△	2.0m	§J	40	40	5.0	200m	50n#	10Ø	1.0mØ	100 △	3.0u	2.0k	1.0	5.0pØ	ANØ	TO52 A
51	NS3906	360m	250M§△	2.0m	†J	40	40	5.0	200m	50n#	1.0Ø	10mØ	100 △†	60uØ	12kØ	10 Ø	4.5pØ	Ø	TO18 A
52	TIS61	360m	250M§	2.9m	§J	40	25	5.0	400m	.01uØ	2.0Ø	50mØ	155 *†					PE	TO92
53	2N3249†	360m	300M§△	2.0m	§J	15	12	5.0	200m	.05u#	1.0Ø	.10mØ	100 †#△				8pØ		TO18 AØ
54	2N3251†	360m	300M§△	2.0m	§J	50	40	5.0	200m	.02u#	10Ø	1.0mØ	100 △	60uØ	12kØ	20 Ø	6pØ	Ø	TO18 AØ
55	2N3251A†	360m	300M§△	2.0m	§J	60	60	5.0	200m	20n#	1.0Ø	10mØ	100 †#△	60uØ	12kØ	20 Ø	6.0pØ	EA△	TO18 AØ
56	JAN2N3251A†	360m	300M§△	2.0m	§S	60	60	5.0	200m	20nØ	10Ø	1.0mØ	100 △	60uØ	12kØ	20 Ø	6.0pØ	Ø	TO18 AØ
57	GET3638†	360m	300M§	3.6m	♦J	25	25	4.0	350m	35n§Ø	10Ø	10mØ	25 △				10p$	PE	TO18
58	GET3638A†	360m	300M§	3.6m	♦J	25	25	4.0	350m	35n§Ø	10Ø	10mØ	100 △				10p$	PE	TO18
59	LDS203†	360m	300M△§	2.9m	§J	50	40	5.0	200m		1.0Ø	100uØ	80 †△#				6.0pØ	PEØ	TO122 P
60#	ME0401†	360m	300M§	2.8m	§J	60	50 *	5.0	600m	5.0uØ	10Ø	100uØ	30 †				8.0p	PE	R110c A
61#	ME0402†	360m	300M§	2.8m	§J	60	50 *	5.0	600m	5.0uØ	10Ø	100uØ	50 †				8.0p	PE	R110c A
62	TIS137	360m	320M§Ø	2.9m	§S	35	32 *	6.0	50m	100nØ	9.0Ø	1.0mØ	45 †△				1.7 $Ø	PE	X55 A
63	NPS6518	360m	340M§	2.9m	§J	40	40	4.0	100m	500nØ	10Ø	2.0mØ	150 †△				4pØ$	PL	TO92 A
64	NPS6519	360m	340M§	2.9m	§J	25	25	4.0	100m	500nØ	10Ø	2.0mØ	150 †△				4pØ$	PL	TO92 A
65	NPS6522	360m	340M§	2.9m	§J	25	25	4.0	100m	500nØ	10Ø	2.0mØ	200 †△				4pØ$	PL	TO92 A
66	NPS6523	360m	340M§	2.9m	§J	25	25	4.0	100m	500nØ	10Ø	2.0mØ	200 †△				4pØ$	PL	TO92 A
67	2N3829†	360m	350M§△	2.4m	§S	35	35 Ø	5.0	200m	.3u§Ø	.40Ø	30mØ	30 †#△				6pØ		TO52 AØ
68	JAN2N869A†	360m	400M§△	2.1m	§J	25	18	5.0		10n§	5.0Ø	10mØ	40 †△#				6.0pØ	Ø	TO18 AØ
69	2N2894†	360m	400M§△	2.0m	§J	12	12	4.0	200m	.08u§	.50Ø	30mØ	40 †#△				6pØ		TO18 AØ
70	2N3012†	360m	400M§△	2.0m	§J	12	12	4.0	200m		.50Ø	30mØ	30 †#△				6pØ	PE	TO18 AØ
71	2N3576†	360m	400M§△	2.4m	§S	20	15	5.0	200m	.01u§	.50Ø	10mØ	40 †△				4.6pØ		TO18 AØ
72	2N4034†	360m	400M§△	2.0m	§J	40	40	5.0	100m	15n§	10Ø	1.0mØ	50 △	24uØ	8.0kØ	3.0 Ø	4.0p$Ø		TO18 AØ
73	2N4423†	360m	400M§△	2.8m	§S	12	12	4.0	200m	80n§	.50Ø	30mØ	40 †△#				6.0p$Ø		X55 A
74#	BSV21†	360m	400M§△	2.0m	§J	12	12	5.0	200m	80n§	.30Ø	10mØ	25 †△#				6pØ	PE	TO18 AØ
75#	ME6101†	360m	400M§	2.8m	§J	70	50	6.0		50nØ	10Ø	100uØ	30 †				5.0p	PE	R110c A
76	MM869B†	360m	400M§△	2.1m	§J	30	30	5.0	200m	25uØ	.30Ø	10mØ	30 †△				6.0pØ	AN	TO18 A
77	TIS50†	360m	400M§△	2.9m	§J	12	12	4.0	200m	1u§†	1.0Ø	100mØ	20 †#△				6pØ	PE	TO92
78	2N4035†	360m	450M§△	2.0m	§J	40	40	5.0	100m	15n§	10Ø	1.0mØ	150 △	40uØ	12kØ	4.0 Ø	4.0p$Ø		TO18 AØ
79	2N5244§	360m	450M§△	2.0m	§J	40	40	5.0	100m	15n§	1.0Ø	1.0mØ	150 †△				3.5p$	△	TO18 AØ
80#	ME6102†	360m	450M§	2.8m	§J	60	45	6.0		50nØ	10Ø	100uØ	50 †				5.0p	PE	R110c A
81	2N3798	360m	500M§	2.0m	§S	60	60	5.0	50m	.01uØ	5.0Ø	10mØ	125 †△	60uØ	30kØ	25 Ø	4pØ	Ø	TO18 AØ
82	2N3799	360m	500M§	2.0m	§S	60	60	5.0	50m	.01uØ	5.0Ø	10mØ	250 †△	60uØ	40kØ	25 Ø	4pØ	Ø	TO18 AØ
83#	MA0461†	360m	500M§	2.9m	§J	60	50	6.0		10nØ	1.0Ø	10mØ	50 †△				3.0p	PE△	TO18
84#	MA0462†	360m	500M§	2.9m	§J	50	40	6.0		10nØ	1.0Ø	10mØ	100 †△				3.0p	PE△	TO18
85#	MA0463†	360m	500M§	2.9m	§J	30	20	5.0		10nØ	1.0Ø	10mØ	50 †△				3.0p	PE△	TO18
86#	MA0491†	360m	500M§△	2.9m	§J	30	30 Ø	5.0		10n§	1.0Ø	30mØ	30 †△				4.0pØ	PE△	TO18
87#	MA0492†	360m	500M§△	2.9m	§J	25	25 Ø	5.0		10n§	1.0Ø	30mØ	50 †△				4.0pØ	PE△	TO18
88#	MA0493†	360m	500M§△	2.9m	§J	15	15 Ø	4.0		10n§	1.0Ø	30mØ	30 †△				4.0pØ	PE△	TO18
89	MM4257†	360m	500M§△	2.0m	§J	6.0	6.0	4.5	80m	10n§	3.0Ø	10mØ	30 †△#				3.0p$Ø	AN	TO18 AØ
90	TIS53†	360m	500M§△	2.9m	§J	6.0	6.0	4.0	80m	.01u§	1.0Ø	50mØ	20 †#				5.5pØ	PE	TO92
91	TIS54†	360m	500M§△	2.9m	§J	12	12	4.0	80m	.01u§	1.0Ø	50mØ	20 †#				5.5pØ	PE	TO92
92#	BFX48†	360m	550M§	2.0m	§J	30	30	5.0	100m	15n§	1.0Ø	100uØ	130 †				2.2p	DPEØ	TO18 Ø
93	2N5056†	360m	600M§△	2.1m	§J	15	15	4.5	100m	.05u§	.50Ø	1.0mØ	12 †△				4.5p$		TO18 AØ
94	JAN2N5332	360m	600M§△	2.4m	§S	20	12	2.0	100m	10nØ	1.0Ø	1.0mØ	20 †△				3.5p$Ø	△	TO46 AØ
95	2N869A†	360m	640M△	2.0m	§J	25	18	5.0	200m	.01uØ	.50Ø	30mØ	40 †#△				6pØ	PE	TO18 AØ
96	2N3209†	360m	640M	2.0m	§J	20	20	4.0	200m	.08uØ	.50Ø	30mØ	75 †#				5pØ	PE	TO18 AØ
97	2N3546†	360m	700M§△	2.0m	§J	15	12	4.5	200m	.01u§	1.0Ø	10mØ	30 †△				6pØ		TO18 AØ
98#	BSX29†	360m	700M§	2.0m	§J	12	12	4.0		.08u§	1.0Ø	100mØ	40 †#				3.3p	DPE	TO18 AØ
99	MM4258†	360m	700M§△	2.0m	§J	12	12	4.5	80m	10n§	3.0Ø	10mØ	30 †△#				3.0p$Ø	AN	TO18 AØ
100	2N2894A†	360m	800M§△	2.0m	§J	12	12 Ø	4.5	200m	10u†Ø	.50Ø	30mØ	40 △†#				4.5p		TO18 Ø
101	2N5057†	360m	800M§△	2.1m	§J	15	15	4.5	100m	.05u§	.50Ø	1.0mØ	20 †△				4.5p$		TO18 AØ
102	2N5332§	360m	800M§△	2.4m	§S	20	12	2.0	100m	.01uØ	1.0Ø	1.0mØ	20 †△				3.5p Ø	△	TO46 AØ
103	MM2894A†	360m	800M§△	2.0m	§J	12	12	4.5	200m	10uØ	.50Ø	1.0mØ	20 †△				4.5pØ	AN	TO18 AØ
104#	BSW25†	360m	1.2G§	2.0m	§J	12	12	4.5		.05u§	.50Ø	30mØ	63 †#				3.3p	DPE	TO18 AØ
105	MM4208†	360m	1.3G§	2.0m	§J	12	12	4.5	200m	10n§	.50Ø	1.0mØ	15 †△				3.0pØ	AN	TO18 AØ
106	MM4208A†	360m	1.3G§	2.0m	§J	15	15	4.5	200m	10n§	.50Ø	1.0mØ	15 †△				3.0pØ	AN	TO18 AØ
107	MM4209†	360m	1.3G§	2.0m	§J	12	12	4.5	200m	10n§	.50Ø	1.0mØ	35 †△				3.0pØ	AN	TO18 AØ
108	MM4209A†	360m	1.3G§	2.0m	§J	15	15	4.5	200m	10n§	.50Ø	1.0mØ	35 †△				3.0pØ	AN	TO18 AØ
109	2N2425†	375m	10.MΔ	3.0m	§S	50	10	30	50m	.10uØ	.50Ø	5.0m	25 †△				14p	A	TO5 A
110	2N2424†	375m	15.MΔ	3.0m	§S	40	5.0	20	50m	.10uØ	.50Ø	5.0m	30 †△				14p	A	TO5 A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E A D E
1#	BC297	375m	150M§	2.5m	§J		50 Ø	5.0	1.0	100nØ	1.0Ø	100mØ	75 †Δ				12p	PE	TO18	A
2▼#	BC297-7	375m	150M§Δ	2.5m	§J	50	45	5.0		100nØ	1.0Ø	100m	125						TO18	
3#	BC298	375m	150M§	2.5m	§J		30 Ø	5.0	1.0	100nØ	1.0Ø	100mØ	75 †Δ				12p	PE	TO18	A
4#	BC370	375m	150M§	2.5m	§J	20	20	5.0	1.0	20n	5.0Ø	10mØ	50 †Δ				12p	PE	TO18	A
5	HA7597	385m	1.0M	2.9m	§J	50	40	20	50m	.10u	.50	1.0mΔ	14	35u			95p	AØ	X3	
6	HA7598	385m	1.0M	2.9m	§J	50	35	20	50m	.10u	.50	1.0mΔ	25	40u			95p	AØ	X3	
7	HA7599	385m	1.0M	2.9m	§J	50	30	20	50m	.10u	.50	1.0mΔ	50	50u			95p	AØ	X3	
8	2N2551	400m		2.9m	§S	150	150	150	1.0 #	100nØ	5.0Ø	100mØ	15 †Δ#					Ø	TO5	A
9	2N3413	400m		2.9m	§S	150	150	150	200m#	100nØ	5.0Ø	2.0mØ	8.0 †Δ				150pØ	Ø	TO5	A
10	2N3581	400m		2.2m	§S	50	40	6.0	30m	20nØ	5.0Ø	100uØ	150 †	1.0uØb	35	10	6.0pØ	Ø	TO46	AØ
11	2N3582	400m		2.2m	§S	50	40	6.0	30m	20nØ	5.0Ø	100uØ	300 †	1.0uØb	35	10	6.0pØ	Ø	TO46	AØ
12	2N5999	400m		4.0m	§S	35	25	5.0	500m	30nØ	2.0Ø	10mØ	150 Δ				8.0p$Ø	Ø	TO98	B
13	2N6009	400m		4.0m	§S	35	25	5.0	500m	30nØ	2.0Ø	10mØ	250 Δ				8.0p$Ø	Ø	TO98	B
14#	BC283	400m		2.2m	§J	30	30	5.0	600m	500nØ	5.0Ø	50mØ	40 †Δ	920m	155m	4.6	7.0p	DPL	TO18	
15	HA7539	400m		3.3m	§J	90				.10u			14 Δ					A	TO5	
16	JAN2N328A	400m	200kΔ	2.2m	§J	50	40	30		100n	.50Ø	3.0mØ	18 †Δ				110pØ		TO5	A
17	JAN2N329A	400m	250kΔ	2.2m	§J	50	35	30		100n	.50Ø	3.0mØ	36 †Δ				110pØ		TO5	A
18	JAN2N1234	400m	300k§Δ	3.0m	§S	110	110	110	100m	100nØ	5.0	1.0m	14 Δ	2.0u	60 Ø	10 Ø	150pØ		TO5	A
19	2N1234	400m	800kΔ	2.9m	§J	110	110	110		100nØ	2.0Ø	10mØ	14 †	1.2ub	30	4.0	95p	A	TO5	A
20	HA7535	400m	800k	2.9m	§J	110		110		100n	5.0	1.0mØ	20	1.2ub	30	4.0	95p	F		
21	HA7540	400m	800k	2.9m	§J	150		150		100n	5.0	1.0m	20	1.2ub	30	4.0	95p	A	TO5	
22	HA7541	400m	800k	2.9m	§J	90		90		100n	5.0	1.0m	45	1.2ub	30	4.0	95p	A	TO5	
23	HA7542	400m	800k	2.9m	§J	110		110		100n	5.0	1.0m	45	1.2ub	30	4.0	95p	A	TO5	
24	HA7543	400m	800k	2.9m	§J	60		60		100n	5.0	1.0m	90	1.2ub	30	4.0	95p	A	TO5	
25	2N1232	400m	1.0M	2.9m	§J	60	60	60		100nØ	2.0Ø	1.0mØ	14 †	1.2ub	30	4.0	95p	A	TO5	A
26	2N1233	400m	1.0M	2.9m	§J	60	60	60		100nØ	2.0Ø	10mØ	30 †	1.2ub	30	4.0	95p	A	TO5	A
27	2N1439	400m	1.0MΔ	2.3m	§A	50		50	100m	.02u	6.0	1.0m	9.0	35u	1.0k		5.0p	A	TO5	A
28	2N1440	400m	1.0MΔ	2.2m	§J	60	50	60	100m	50u	6.0Ø	1.0mØ	15	1.7ub	60	16	5.0p	A	TO5	A
29	2N1441	400m	1.0MΔ	2.2m	§J	50	35	50	100m	50u	6.0Ø	1.0mØ	27	1.7ub	60	16	5.0p	A	TO5	A
30	2N1442	400m	1.0MΔ	2.2m	§J	50	30	50	100m	50u	6.0Ø	1.0mØ	43	1.2ub	60	16	5.0p	A	TO5	A
31	2N1443	400m	1.0M	2.3m	§A	50		50	100m	.02u	6.0	1.0mØ	65	35u	1.0k		5.0p	A	TO5	A
32	2N3977Ø	400m	1.0M§Δ	2.3m	§S	15	10	15	100m	1.0n	.50Ø	5.0mØ	40 †Δ				14pØ		TO46	AØ
33	2N3978Ø	400m	1.0M§Δ	2.3m	§S	25	20	25	100m	1.0n	.50Ø	5.0mØ	30 †Δ				14pØ		TO46	AØ
34	2N3979Ø	400m	1.0M§Δ	2.3m	§S	40	35	40	100m	1.0n	.50Ø	5.0mØ	20 †Δ				14pØ		TO46	AØ
35	HA7534	400m	1.0M	2.9m	§J	60		60		100n	5.0	1.0mØ	20	1.2ub	30	4.0	95p	F		
36	HA7538	400m	1.0M	2.9m	§J	60		60		100n	5.0	1.0mØ	42	1.2ub	30	4.0	95p	F		
37	HA7630	400m	1.0M		♦	40		20		5.0u	10	5.0m	22	1.5u	10	4.0		A	TO5	
38	HA7631	400m	1.0M		♦	80		40		2.0u	10	5.0m	22	1.5u	10	4.0		A	TO5	
39	HA7632	400m	1.0M		♦	40		20		5.0u	10	5.0m	60	1.5u	10	4.0		A	TO5	
40	HA7633	400m	1.0M		♦	80		40		2.0u	10	5.0m	60	1.5u	10	4.0		A	TO5	
41	HA7804Ø	400m	1.0M	2.8m	ØJ	10	10	10	100m	50n							70pØ	A	TO5	
42	HA7806Ø	400m	1.0M	2.8m	§J	15	15	15		50nØ							90pØ	A	TO5	
43	HA7808Ø	400m	1.0M	2.8m	§J	15	15	15		50nØ							70pØ	A	TO5	
44	HA7810Ø	400m	1.0M	2.8m	ØJ	10	10	10	100m	50nØ							90pØ	A	TO5	
45	HA7815Ø	400m	1.0M	2.8m	ØJ	30	30	30	100m	50nØ							70pØ	A	TO5	
46	2N1228	400m	1.2M	2.9m	§J	15	15	15		100nØ	2.0Ø	10mØ	14 †	1.2ub	30	15	95p	A	TO5	A
47	2N1229	400m	1.2M	2.9m	§J	15	15	15		100nØ	2.0Ø	10mØ	30 †	1.2ub	30	15	95p	A	TO5	A
48	2N1230	400m	1.2M	2.9m	§J	35	35	35		100n	2.0Ø	10mØ	14 †	1.2ub	30	8.0	95p	A	TO5	A
49	2N1231	400m	1.2M	2.9m	§J	35	35	35		100nØ	2.0Ø	10mØ	30 †	1.2ub	30	8.0	95p	A	TO5	A
50	HA7530	400m	1.2M	2.9m	§J	35		35	100m	.10u	5.0	1.0m	12	1.2u	30	10	95p		TO5	
51	HA7531	400m	1.2M	2.9m	§J	60		60	100m	.10u	5.0	1.0m	12	1.2u	30	10	95p		TO5	
52	HA7532	400m	1.2M	2.9m	§J	15		15		.10u	5.0	1.0mØ	20	1.2u	30	15	95p	F		
53	HA7533	400m	1.2M	2.9m	§J	35		35		.10u	5.0	1.0mØ	20	1.2u	30	8.0	95p	F		
54	HA7536	400m	1.2M	2.9m	§J	15		15		.10u	5.0	1.0mØ	42	1.2u	30	15	95p	F		
55	HA7537	400m	1.2M	2.9m	§J	35		35		.10u	5.0	1.0mØ	42	1.2u	30	8.0	95p	F		
56	2N327B	400m	2.0MΔ	2.3m	§J	50	40	20	100m	1nØ	.50Ø	1.0mΔ	14	10u	1.0k		9.0p	PEΔ	TO5	A
57	2N1026A	400m	2.0MΔ	500uØ	§J	35	35		100m	.02u			36				7.0p	E	TO5	
58	2N3064	400m	2.0M	2.3m	§J	110	100	50	100m	.01uØ	6.0Ø	1.0mØ	15 †Δ				10pØ	E	TO46	A
59	2N328B	400m	3.0MΔ	2.3m	§J	50	35	20	100m	1nØ	.50Ø	.10mΔ	28	12u	1.7k		9.0p	PEΔ	TO5	A
60	2N3062	400m	3.0M	2.3m	§J	90	80	40	100m	.01uØ	6.0Ø	1.0mØ	20 †Δ				10pØ	E	TO46	A
61	2N3219Ø	400m	3.0M§	2.3m	§J	40	35	40	100m	1.0n	6.0Ø	1.0mØ	1.0 Δ				14pØ	E	TO46	A
62	2N4982Ø	400m	3.0M§Δ	2.2m	§S	70		70	100m	5.0n	.50Ø	1.0mØ	30 †Δ				10pØ	Δ	TO46	AØ
63	2N3065	400m	4.0M	2.3m	§J	110	100	50	100m	.01uØ	6.0Ø	1.0mØ	30 †Δ				10pØ	E	TO46	A
64	2N3913Ø	400m	4.0M§Δ	2.3m	§S	60	50	50	200m	.5nØ	.50Ø	1.0mØ	40 †Δ				8pØ	Δ	TO18	A
65	2N329B	400m	5.0MΔ	2.3m	§J	50	30	20	100m	1nØ	.50Ø	.10mΔ	60	15u	3.0k		9.0p	PEΔ	TO5	A
66	2N2946Ø	400m	5.0M§Δ	4.3m	§J	40	35	40	100m	.50n	.50Ø	1.0mØ	70 †				10pØ	E	TO46	A
67	2N2946AØ	400m	5.0M§Δ	2.3m	§S	40	35	40	100m	5.0u	.50Ø	1.0mØ	50 †Δ				10pØ	Δ	TO46	AØ
68	JAN2N2946AØ	400m	5.0M§Δ	2.2m	§S	40	35	40	100m	500p	.50Ø	1.0mØ	50 †Δ				10pØ	Δ	TO46	AØ
69	2N3060	400m	5.0M	2.3m	§J	70	60	30	100m	5nØ	6.0Ø	1.0mØ	30 †Δ				10pØ	E	TO46	A
70	2N3063	400m	5.0M	2.3m	§J	90	80	40	100m	.01uØ	6.0Ø	1.0mØ	50 †Δ				10pØ	E	TO46	A
71	2N3218Ø	400m	5.0M§	2.3m	§J	25	20	25	100m	1.0n	6.0Ø	1.0mØ	1.0 Δ				14pØ	E	TO46	A
72	2N3527	400m	5.0M§Δ	2.3m	§J	30	30	10	100m	.1nØ	6.0Ø	.1uØ	40 †				10pØ	E	TO46	AØ
73	2N3677Ø	400m	5.0M§Δ	2.3m	§S	30	20	30	100m	1.0n	6.0Ø	1.0m	4.0 Δ§				10pØ		TO46	AØ
74	2N4981Ø	400m	5.0M§Δ	2.2m	§S	50		50	100m	3.0n	.50Ø	1.0mØ	40 †Δ				10pØ	Δ	TO46	AØ
75	2N3840Ø	400m	6.0M§Δ	2.3m	§S	50	50	50	100m	.5nØ	.50Ø	1.0mØ	50 †Δ				9pØ		TO46	A
76	2N3061	400m	8.0M	2.3m	§J	70	60	30	100m	5nØ	6.0Ø	1.0mØ	60 †Δ				10pØ	E	TO46	A
77	2N3914Ø	400m	8.0M§Δ	2.3m	§S	60	40	40	200m	.5nØ	.50Ø	1.0mØ	60 †Δ				8pØ		TO18	A
78	2N2945Ø	400m	10M§Δ	4.3m	§J	25	20	25	100m	.20n	.50Ø	1.0mØ	100 †				10pØ	E	TO46	A
79	2N2945AØ	400m	10M§Δ	2.3m	§S	25	20	25	100m	2.0u	.50Ø	1.0mØ	70 †Δ				10pØ	Δ	TO46	AØ
80	JAN2N2945AØ	400m	10M§Δ	2.2m	§S	25	20	25	100m	200p	.50Ø	1.0mØ	70 †Δ				10pØ	Δ	TO46	AØ
81	2N3058	400m	10.M	2.3m	§S	6.0	6.0	6.0	100m	.10n	.50Ø	.1uØ	40 Δ				10pØ	EØ	TO46	A
82	2N3059	400m	10.M	2.3m	§S	10	10	10	100m	.10n	3.0Ø	.01mØ	100 Δ				10pØ	EØ	TO46	A
83	2N3217Ø	400m	10.M§	2.3m	§J	15	10	15	100m	1.0n	6.0Ø	1.0mØ	1.0 Δ				14pØ	E	TO46	A
84	2N4980Ø	400m	10M§Δ	2.2m	§S	30		30	100m	1.0n	.50Ø	1.0mØ	60 †Δ				10pØ	Δ	TO46	AØ
85	2N2944Ø	400m	15M§Δ	4.3m	§J	15	10	15	100m	.10n	.50Ø	1.0mØ	200 †				10pØ	E	TO46	A
86	2N2944AØ	400m	15M§Δ	2.3m	§S	15	10	15	100m	1.0u	.50Ø	1.0mØ	100 †Δ				10pØ	Δ	TO46	AØ
87	2N3915Ø	400m	15M§Δ	2.3m	§S	60	30	30	200m	.5nØ	.50Ø	1.0mØ	90 †Δ				8pØ	Δ	TO18	A
88	2N4007†	400m	15M§Δ	2.3m	§S	20	15	20	100m	.30n	6.0Ø	1.0m	30 §Δ				10p$Ø		TO46	AØ
89	2N4008†	400m	15M§Δ	2.3m	§S	35	30	35	100m	.3nØ	6.0Ø	1.0m	20 §Δ				10p$Ø		TO46	AØ
90#	BCY90B	400m	15.M§	3.3m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO5	AØ
91#	BCY91B	400m	15.M§	3.3m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO5	AØ
92#	BCY92B†	400m	15.M§	3.3m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	70				4p$	PEØ	TO5	AØ
93#	BCY93B	400m	15.M§	3.3m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO5	AØ
94#	BCY94B	400m	15.M§	3.3m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO5	AØ
95#	BCY95B†	400m	15.M§	3.3m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	70				4p$	PEØ	TO5	AØ
96#	BCY96B	400m	15.M§	3.3m	§J	90	90	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO5	AØ
97#	BCY97B	400m	15.M§	3.3m	§J	90	90	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO5	AØ
98#	BCY98B†	400m	15.M§	3.3m	§J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	125				4p$	PEØ	TO5	AØ
99#	TCH99B†	400m	15.M§	3.3m	§J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	125				4p$	PEØ	TO5	AØ
100	2N2601	400m	20M§Δ	2.2m	§S	60	60	6.0	50m	25nØ	5.0	1.0m	18 Δ	1.0uØb	35 Ø	10 Ø	6.0pØ		TO46	AØ
101	2N4006†	400m	20M§Δ	2.3m	§S	10	6.0	10	100m	.10n	6.0Ø	1.0m	40 §Δ				10p$Ø		TO46	AØ
102	2N4413	400m	20M§Δ	2.3m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	120 Δ	500nb	32 Ø		10pØ	Ø	TO18	AØ
103	2N4413A	400m	20M§Δ	2.3m	§S	60	60	5.0	600m	10nØ	5.0Ø	1.0mØ	120 Δ	500nb	32 Ø		10pØ	Ø	TO18	Ø
104	2N4415	400m	20M§Δ	2.3m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	100 Δ	500nb	32 Ø		10pØ	Ø	TO18	AØ
105	2N4415A	400m	20M§Δ	2.3m	§S	60	60	5.0	600m	10nØ	5.0Ø	1.0mØ	100 Δ	500nb	32 Ø		10pØ	Ø	TO18	A
106	2N2595	400m	30M§Δ	2.2m	§S	80	60	6.0	50m	25nØ	5.0Ø	1.0m	15 Δ		1.2kØ		6.0pØ		TO46	AØ
107	2N2598	400m	30M§Δ	2.2m	§S	125	80	7.0	50m	25nØ	5.0Ø	5.0m	20 Δ		1.2kØ		6.0pØ		TO46	AØ
108	2N2604	400m	30M§Δ	2.2m	§S	60	45	6.0	30m	10nØ	5.0	1.0m	60 Δ	1.0uØb	35 Ø	10 Ø	6.0pØ	Ø	TO46	AØ
109	JAN2N2604	400m	30M§Δ	2.2m	§S	80	60	6.0	30m	10nØ	5.0Ø	1.0mØ	60 Δ	40uØ	10kØ	10 Ø	6.0pØ	Ø	TO46	AØ
110	2N2605	400m	30M§Δ	2.2m	§S	60	45	6.0	30m	10nØ	5.0	1.0m	150 Δ	1.0uØb	35 Ø	10 Ø	6.0pØ	Ø	TO46	AØ

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1	JAN2N2605	400m	30M§△	2.2m	§S		70	60	6.0	30m	10nØ	5.0Ø	1.0mØ	150 △	60uØ	20kØ	10 Ø	6.0pØ	Ø	TO46		AØ
2	2N2596	400m	40M§△	2.2m	§S		80	60	6.0	50m	25nØ	5.0Ø	1.0m	30 △		1.5kØ		6.0pØ		TO46		AØ
3	2N2599	400m	40M§△	2.2m	§S		125	80	7.0	50m	25nØ	5.0Ø	5.0m	40 △		1.5kØ		6.0pØ		TO46		AØ
4	2N2599A	400m	40M§△	2.2m	§S		125	100	7.0	50m	25nØ†	5.0Ø	5.0m	40 △				6.0pØ		TO46		AØ
5	2N2602	400m	40M§△	2.2m	§S		60	60	6.0	50m	25nØ	5.0	1.0m	36 △	1.0uØb	35 Ø	10 Ø	6.0pØ		TO46		AØ
6	2N3930	400m	40M§△	2.3m	§J		180	180	6.0	100m	10nØ	10Ø	1.0mØ	80 △	25uØ	12kØ		7pØ	Ø	TO18		AØ
7	2N4017*	400m	40M§△	2.2m	§J		45	45	6.0	200m	10nØ	5.0Ø	1.0mØ	250 △	50uØ	20kØ	10 Ø	6.0pØ	Ø	L17x		
8	2N4018*	400m	40M§△	2.2m	§J		80	80	6.0	200m	10nØ	5.0Ø	1.0mØ	100 △	40uØ	17kØ	10 Ø	6.0pØ	Ø	L17x		
9	2N4019*	400m	40M§△	2.2m	§J		60	60	6.0	200m	10nØ	5.0Ø	1.0mØ	100 △	50uØ	20kØ	10 Ø	6.0pØ	Ø	L17x		
10	2N4021*	400m	40M§△	2.3m	§J		60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	100 △	40uØ	17kØ	10 Ø	6pØ	Ø*	L17k		
11	2N4024*	400m	40M§△	2.3m	§J		60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	100 △	40uØ	17kØ	10 Ø	6pØ	Ø*	L17k		
12	2N4357	400m	40M§△	2.3m	§J		240	240	6.0	100m	.02uØ	10Ø	1.0mØ	100 △	25uØ	12kØ		7pØ	Ø	TO18		AØ
13	2N2605A	400m	45M	2.2m	§S		60	45	6.0	30m	2.0nØ	5.0Ø	10mØ	600 †Ø	1.0uØb	35 Ø	10 Ø	6.0p	Ø	TO46	Ø	
14	2N3547	400m	45M§△	2.2m	§S		60	60	6.0	100m	25nØ	5.0Ø	1.0mØ	100 †△	1.0uØb	35 Ø	10 Ø	8.0pØ	PLØ	TO18	AØ	
15	2N721	400m	50M§△	2.7m	§J		50	35	5.0		1.0uØ	5.0Ø	1.0mØ	15 △	1.0uØb	35 Ø	8.0 Ø	45pØ		TO18	AØ	
16	2N721A	400m	50M§△	2.2m	§J		50	35	5.0		100nØ	10Ø	5.0mØ	15 †△	5.0uØb	10 Ø	8.0 Ø	40pØ	PL	TO18	AØ	
17	2N2590	400m	50M§△	2.2m	§S		100	60	7.0	50m	25nØ	5.0Ø	5.0mØ	40 △	1.5uØb	10 Ø		15pØ		TO46	AØ	
18	2N3341†	400m	50M§△	2.7m	§A		30	20	5.0	30m	.01uØ	1.0Ø	.01mØ	40 †△				6pØ		TO46	AØ	
19	2N4020*	400m	50M§△	2.3m	§J		45	45	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 △	50uØ	20kØ	10 Ø	6pØ	Ø*	L17k		
20	2N4022*	400m	50M§△	2.3m	§J		60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 △	50uØ	20kØ	10 Ø	6pØ	Ø*	L17k		
21	2N4023*	400m	50M§△	2.3m	§J		45	45	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 △	50uØ	20kØ	10 Ø	6pØ	Ø*	L17k		
22	2N4025*	400m	50M§△	2.3m	§J		60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 △	50uØ	20kØ	10 Ø	6pØ	Ø*	L17k		
23	2N722	400m	60M§△	2.6m	§J		50	35	5.0		1.0uØ	5.0Ø	1.0mØ	25 △	1.0uØb	35 Ø	8.0 Ø	45pØ		TO18	AØ	
24	2N2303/46	400m	60M§△	23m	§J		50	35	5.0	600	1.0uØ	5.0Ø	1.0	75 △	1.0 Øb	35 Ø	8.0 Ø	20pØ	PE	TO46	AØ	
25	2N2597	400m	60M§△	2.2m	§S		80	60	6.0	50m	25nØ	5.0Ø	1.0m	60 △		1.8kØ		6.0pØ		TO46	AØ	
26	2N2600	400m	60M§△	2.2m	§S		125	80	7.0	50m	25nØ	5.0Ø	5.0m	60 △		1.8kØ		6.0pØ		TO46	AØ	
27	2N2600A	400m	60M§△	2.2m	§S		125	100	7.0	50m	25nØ†	5.0Ø	5.0m	80 △				6.0pØ		TO46	AØ	
28	2N2603	400m	60M§△	2.2m	§S		60	60	6.0	50m	25nØ	5.0	1.0m	76 △	1.0uØb	35 Ø	10 Ø	6.0pØ		TO46	AØ	
29	2N3548	400m	60M§△	2.2m	§S		60	45	6.0	100m	10nØ	5.0	10uØ	100 †△	1.0uØb	35 Ø	10 Ø	8.0pØ	PLØ	TO18	AØ	
30	2N3549	400m	60M§△	2.2m	§S		60	60	6.0	100m	10nØ	5.0	10uØ	100 †△	1.0uØb	35 Ø	10 Ø	8.0pØ	PLØ	TO18	AØ	
31	2N3550	400m	60M§△	2.2m	§S		60	45	10	100m	1.0nØ	5.0	10uØ	200 †△	1.0uØb	35 Ø	10 Ø	8.0pØ	PLØ	TO18	Ø	
32	2N3726	400m	60M§△	2.2m	§J		45	45	5.0	300m	10nØ	10Ø	1.0mØ	135 △	80uØ	11kØ	15 Ø	8.0pØ	Ø*	L17k		
33	2N3727	400m	60M§△	2.2m	§J		45	45	5.0	300m	10nØ	10Ø	1.0mØ	135 △	80uØ	11kØ	15 Ø	8.0pØ	Ø*	L17k		
34#	BFW43	400m	60.M§	2.3m	§J		150	150	6.0		.01uØ	10Ø	10mØ	40 †#△				7pØ	PE	TO18	AØ	
35#	BFX90	400m	60.M§	2.3m	§J		180	180	6.0		.01uØ	10Ø	1.0mØ	170 †#				5.0p	PE	TO18	AØ	
36	2N2591	400m	70M§△	2.2m	§S		100	60	7.0	50m	25nØ	5.0Ø	5.0mØ	70 △	1.5uØb	10 Ø		15pØ		TO46	AØ	
37	2N3579	400m	80M§△	2.2m	§S		60	60	6.0	30m	50nØ	5.0Ø	1.0mØ	120 †	1.0uØb	35	10	6.0pØ	Ø	TO46	AØ	
38	2N3580	400m	80M§△	2.2m	§S		60	60	6.0	30m	50nØ	5.0Ø	1.0mØ	240 †	1.0uØb	35	10	6.0pØ	Ø	TO46	AØ	
39	2N2592	400m	90M§△	2.2m	§S		100	60	7.0	50m	25nØ	5.0Ø	5.0mØ	115 △	1.5uØb	10 Ø		15pØ		TO46	AØ	
40#	V761	400m	90M§	2.0m	§		25	25	5.0	100m	50n	10Ø	10mØ	100 †	130u	1.2k	2.6	8.0p	PE	TO18	A	
41	2N722A	400m	96M△	2.6m	§J		50	35	5.0		100nØ	10Ø	150mØ	30 †#△	1.0uØb	35 Ø	8.0 Ø	40pØ	PL	TO46	AØ	
42	2N1131/46	400m	96M△	2.3m	§J		50	35	5.0	600m	1.0uØ	10Ø	150mØ	20 †				20p	PE	TO46		
43	2N1132/46	400m	96M△	2.3m	§J		50	35	5.0	600m	1.0uØ	10Ø	150mØ	30 †				20p	PE	TO46		
44	2N1132A46	400m	96M△	2.3m	§J		60	40	5.0	600m	1.0uØ	10Ø	150mØ	30 †				20p	PE	TO46		
45	2N1132B46	400m	96M△	2.3m	§J		70	50	6.0	600m	1.0uØ	10Ø	150mØ	30 †				20p	PE	TO46		
46	2N2927/46	400m	100M§△	2.3m	§J		25	25	4.0	500m	.02uØ	1.0Ø	50mØ	30 †△	1.2mØ	1.5kØ	26 Ø	20pØ	PE	TO46		
47	2N5117*	400m	100M§△	2.3m	§S		45	45	7.0	10m	100pØ	5.0Ø	10uØ	100 †△				800f$Ø	Ø	L17c		
48	2N5118*	400m	100M§△	2.3m	§S		45	45	7.0	10m	100pØ	5.0Ø	10uØ	100 †△				800f$Ø	Ø	L17c		
49	2N5119*	400m	100M§△	2.3m	§S		45	45	7.0	10m	100pØ	5.0Ø	10uØ	50 †△				800f$Ø	Ø	L17c		
50	2N5123*	400m	100M§△	2.3m	§S		45	45	7.0	10m	100pØ	5.0Ø	10uØ	100 †△				800f$Ø	Ø	L17w		
51	2N5124*	400m	100M§△	2.3m	§S		45	45	7.0	10m	100pØ	5.0Ø	10uØ	100 †△				800f$Ø	Ø	L17w		
52	2N5125*	400m	100M§△	2.3m	§S		45	45	7.0	10m	100pØ	5.0Ø	10uØ	50 †△				800f$Ø	Ø	L17w		
53#	BC192	400m	100M§△	2.2m	§J		25	25	5.0	500m	100nØ	5.0Ø	50mØ	60 †△				12p	PE	TO18	AØ	
54#	BC327-16	400m	100M§	3.2m	§J			45	5.0	800m		1.0Ø	100mØ	250 †Ø				12p	PE†	X64a	A	
55#	BC327-25	400m	100M§	3.2m	§J			45	5.0	800m		1.0Ø	100mØ	400 †Ø				12p	PE†	X64a	A	
56#	BC327-40	400m	100M§△	3.2m	§J			45	5.0	800m		1.0Ø	100mØ	630 †Ø				12p	PE†	X64a	A	
57#	BC328-16	400m	100M§	3.2m	§J			25	5.0	800m		1.0Ø	100mØ	250 †Ø				12p	PE†	X64a	A	
58#	BC328-25	400m	100M§△	3.2m	§J			25	5.0	800m		1.0Ø	100mØ	400 †Ø				12p	PE†	X64a	A	
59#	BC328-40	400m	100M§△	3.2m	§J			25	5.0	800m		1.0Ø	100mØ	630 †Ø				12p	PE†	X64a	A	
60	HA9532B	400m	100M	2.6m	§J		70		6.0		10n	10Ø	150mØ	40 †	1.0ub	30	8.0	35p	PL	TO18		
61#	NKT20339	400m	100M§	2.3m	§J		45	40	5.0	500m	.01uØ	10Ø	10mØ	20 †△				6.0p		TO18	AØ	
62	TQ60†	400m	100M§△	2.2m	§J		40	30	5.0	600m	20nØ	5.0Ø	1.0mØ	30 △	500nØb	35 Ø		10pØ	PE	TO18	A	
63	TQ62†	400m	100M§△	2.2m	§J		40	30	5.0	600m	20nØ	5.0Ø	1.0mØ	30 △	500nØb	35 Ø		10pØ	PE	TO8	A	
64	TQ64†	400m	100M§△	2.2m	§J		20	20	5.0	600m	100nØ	5.0Ø	1.0mØ	20 △	500nØb	35 Ø		10pØ	PE	TO18	A	
65	2N2593	400m	110M§△	2.2m	§S		100	60	7.0	50m	25nØ	5.0Ø	5.0mØ	160 △	1.5uØb	10 Ø		15pØ		TO46	AØ	
66	2N2800/46	400m	120M§△	23m	§J		50	35	5.0	800	100n#	10Ø	100mØ	20 △				25pØ	PE	TO46	AØ	
67	2N2801/46	400m	120M§△	23m	§J		50	35	5.0	800	100n#	10Ø	100mØ	30 △				25pØ	PE	TO46	AØ	
68#	2SA673AK†	400m	120M§	4.0m	♦J							3.0Ø	10mØ	320 †Ø*					PE	u132	B	
69#	BC393	400m	120M§	8.0m	§J		180	180	6.0	100m	50n	10Ø	2.0mØ	50 †				4.0p	PE	TO18		
70	2N3081/46	400m	150M§△	23m	§J		70	50	6.0	600	10nØ	10Ø	150 Ø	30 †△				13pØ	PE	TO46	AØ	
71	2N3497†	400m	150M§△	2.3m	§S		120	120	4.5	100m	.10uØ	10Ø	10mØ	40 △	300uØ	1.2kØ	2 Ø	6pØ		TO18	AØ	
72	2N5146†	400m	150M§△	2.3m	§J		40	40	5.0	15	10u#	2.0Ø	1 Ø	20 †△				20p$		L56		
73#	BC420A	400m	150M§	2.3m	§J		180	180	6.0	100m	20u	10Ø	2.0mØ	120 †				4.0p	PE	TO18		
74#	BC420VI	400m	150M§	2.3m	§J		180	180	6.0	100m	20u	10Ø	2.0mØ	70 †				4.0p	PE	TO18		
75#	MA0404	400m	150M§	3.2m	§J		25	25	4.0		100nØ	5.0Ø	50mØ	30 †△				6.0p	PE	TO18		
76#	TS2906	400m	150M§△	2.3m	§J		60	30	5.0	600m	20nØ	10Ø	10mØ	35 †				12pØ	PE	TO18	AØ	
77#	TS2907	400m	150M§△	2.3m	§J		60	30	5.0	600m	20nØ	10Ø	10mØ	75 †				12pØ	PE	TO18	AØ	
78	2N2906†	400m	200M§△	2.3m	§S		60	40	5.0	600m	.02uØ	10Ø	1.0mØ	25 †△				8pØ		TO18	AØ	
79	JAN2N2906†	400m	200M§△	2.2m	§S		60	40	5.0	600m	20nØ	10Ø	1.0mØ	25 △				8.0pØ		TO18	AØ	
80	2N2906A†	400m	200M§△	2.3m	§S		60	60	5.0	600m	.01uØ	10Ø	1.0mØ	40 †△				8pØ		TO18	AØ	
81	JAN2N2906A†	400m	200M§△	2.2m	§S		60	60	5.0	600m	10nØ	10Ø	1.0mØ	40 △				8.0pØ		TO18	AØ	
82	2N2907†	400m	200M§△	2.3m	§S		60	40	5.0	600m	.02uØ	10Ø	1.0mØ	30 †△				8pØ		TO18	AØ	
83	JAN2N2907†	400m	200M§△	2.2m	§S		60	40	5.0	600m	20nØ	10Ø	1.0mØ	50 △				8.0pØ		TO18	AØ	
84	2N2907A†	400m	200M§△	2.3m	§S		60	60	5.0	600m	.01uØ	10Ø	1.0mØ	100 †△				8pØ		TO18	AØ	
85	JAN2N2907A†	400m	200M§△	2.2m	§S		60	60	5.0	600m	10nØ	10Ø	1.0mØ	100 △				8.0pØ		TO18	AØ	
86	2N3135†	400m	200M§△	2.3m	§S		50	35	4.0	600m	.05uØ	10Ø	150mØ	40 †#△				10pØ		TO18	AØ	
87	2N3136†	400m	200M§△	2.3m	§S		50	35	4.0	600m	.05uØ	10Ø	150mØ	100 †#△				10pØ		TO18	AØ	
88	2N3485A†	400m	200M§	2.3m	§S		60	60	5.0	600m	.01uØ	10Ø	10mØ	40 †△				8pØ	EA	TO46	AØ	
89	JAN2N3485A†	400m	200M§△	2.2m	§S		60	60	5.0	600m	10nØ	10Ø	1.0mØ	40 △				8.0pØ		TO46	AØ	
90	2N3486A†	400m	200M§	2.3m	§S		60	60	5.0	600m	.01uØ	10Ø	10m	100 †△				8pØ	EA	TO46	AØ	
91	JAN2N3486A†	400m	200M§△	2.2m	§S		60	60	5.0	600m	10nØ	10Ø	1.0mØ	100 △				8.0pØ		TO46	AØ	
92	2N3496†	400m	200M§△	2.3m	§S		80	80	4.5	100m	.10uØ	10Ø	10mØ	40 △	300uØ	1.2kØ	2 Ø	7pØ		TO18	AØ	
93	2N3504†	400m	200M§△	4.0m	§J		45	45	5.0	600m	.01u§	10Ø	10mØ	35 △	800uØ	23kØ	15 Ø	8pØ	Ø	TO18	AØ	
94	2N3505†	400m	200M§△	4.0m	§J		60	60	5.0	600m	.01u§	10Ø	10mØ	35 △	800uØ	23kØ	15 Ø	8pØ	Ø	TO18	AØ	
95	2N3672†	400m	200M§△	2.3m	§S		60	50	5.0	600m	10nØ	10Ø	.10mØ	55 †△				9pØ		TO18	AØ	
96	2N4015*	400m	200M§△	2.3m	§J		60	60	5.0	300m	.01uØ	10Ø	1.0mØ	135 △	80uØ	12kØ	15 Ø	8pØ	Ø*	L17k		
97	2N4016*	400m	200M§△	2.3m	§J		60	60	5.0	300m	.01uØ	10Ø	1.0mØ	135 △	80uØ	12kØ	15 Ø	8pØ	Ø*	L17k		
98	2N5763§	400m	200M§△	2.2m	§S		65	60	5.0	600m	10nØ	10Ø	1.0mØ	70 †△				8.0p$Ø	△	TO18	AØ	
99#	2SA719	400m	200M§	4.0m	♦J		30	25	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	TO92	B	
100#	2SA720	400m	200M§	4.0m	♦J		60	50	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	TO92	B	
101#	BFX35	400m	200M§△	2.3m	§J		40	40	5.0		.03u	10Ø	1.0mØ	200 †				6.0p	PE	TO18		
102#	BSV46	400m	200M§	2.0m	§J		70	70	5.0	500m	20n	10Ø	150mØ	120 †				8.0p	PE	TO18	Ø	
103#	BSV47A	400m	200M§	2.0m	§J		60	60	5.0	500m	20n	10Ø	150mØ	80 †				8.0p	PE	TO18	Ø	
104#	BSV47B	400m	200M§	2.0m	§J		60	60	5.0	500m	20n	10Ø	150mØ	200 †				8.0p	PE	TO18	Ø	
105#	BSV48A	400m	200M§	2.0m	§J		60	40	5.0	500m	20n	10Ø	150mØ	80 †				8.0p	PE	TO18	Ø	
106#	BSV48B	400m	200M§	2.0m	§J		60	40	5.0	500m	20n	10Ø	150mØ	200 †				8.0p	PE	TO18	Ø	
107#	BSV49A	400m	200M§	2.0m	§J		›30	30	5.0	500m	25n	25Ø	150mØ	80 †				8.0p	PE	TO18	Ø	
108#	BSV49B	400m	200M§	2.0m	§J		30	30	5.0	500m	25n	25Ø	150mØ	200 †				8.0p	PE	TO18	Ø	
109#	BSW24†	400m	200M§△	2.3m	§J							10Ø	150mØ	40 #△					PE	TO18		
110#	BSW72	400m	200M§	2.2m	§J		40	25	5.0	500m	100nØ	10Ø	10mØ	40 †△#				8.0pØ	PE	TO18	AØ	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1#	BSW73	400m	200M§	2.2m	§J		40	25	5.0	500m	100nØ	10Ø	10mØ	100 †Δ#				8.0pØ	PE	TO18		AØ
2#	BSW74	400m	200M§	2.2m	§J		75	40	5.0	500m	10nØ	10Ø	10mØ	40 †Δ#				8.0pØ	PE	TO18		AØ
3#	BSW75	400m	200M§	2.2m	§J		75	40	5.0	500m	10nØ	10Ø	10mØ	100 †Δ#				8.0pØ	PE	TO18		AØ
4	D2T2904†	400m	200M§Δ	2.3m	§S		60	40	5.0	600m	20nØ	10Ø	150mØ	40 †Δ				8.0pØ	PE*	L2b		
5	D2T2904A†	400m	200M§Δ	2.3m	§S		60	60	5.0	600m	10nØ	10Ø	150mØ	40 †Δ				8.0pØ	PE*	L2b		
6	D2T2905†	400m	200M§Δ	2.3m	§S		60	40	5.0	600m	10nØ	10Ø	150mØ	100 †Δ				8.0pØ	PE*	L2b		
7	D2T2905A†	400m	200M§Δ	2.3m	§S		60	60	5.0	600m	10nØ	10Ø	150mØ	100 †Δ				8.0pØ	PE*	L2b		
8	HEP52-RT	400m♦	200M§		§J		30	30 $	4.0	200m$	200n$	30		95 †						TO18		A
9#	MA0404-1	400m	200M§	3.2m	§J		40	30	5.0		50n§	1.0Ø	50mØ	30 †Δ				6.0p	PE	TO18		
10#	MA0404-2	400m	200M§	3.2m	§J		40	30	5.0		50n§	1.0Ø	50mØ	75 †Δ				6.0p	PE	TO18		
11	SK3114-RT	400m	200M§				60	50	5.0	500m				175 †						X55a		A
12#	TM2614	400m	200M§Δ	1.4m	§A		60	50 §	5.0	600m	.05uØ	10Ø	150mØ	40 †#				8pØ	PE	TO18		A
13#	TM2712	400m	200M§Δ	1.4m	§A		60	40 §	5.0	600m	.05uØ	10Ø	150mØ	100 †#				8pØ	PE	TO18		
14#	BF249	400m	250M§	2.7m	§A		30	25	3.0	600m		10	10m	30 †Δ				6.0p	PE	TO18		AØ
15#	BFV95†	400m	250M§Δ	2.6m	§J		50	30	5.0	800m	.05uØ	10Ø	150mØ	80 †Δ*				5.0p	PE	L56d		
16#	BFV95N†	400m	250M§Δ	2.6m	§J		50	30	5.0	800m	.05uØ	10Ø	150mØ	80 †Δ*				5.0p	PE	L56e		
17#	V763†	400m	300M§		§							1.0Ø	50mØ	100 †				6.0p	PL	TO18		A
18#	BFV91†	400m	400M§Δ	2.6m	§J		12	12	4.0	200m	30uØ	.50Ø	30mØ	30 †Δ*				6pØ	PE	L56d		
19#	BFV91N†	400m	400M§Δ	2.6m	§J		12	12	4.0	200m	30uØ	.50Ø	30mØ	30 †Δ*				6pØ	PE	L56e		
20	2N6001†	400m	700M§Δ	4.0m	♦J		35	25	5.0	500m	10nØ	10Ø	1.0m	85 Δ	100uØ	12kØ		8.0p$Ø	Ø	X55a		A
21	2N6005†	400m	700M§Δ	4.0m	♦J		50	40	5.0	500m	10nØ	10Ø	1.0m	85 Δ	100uØ	12kØ		8.0p$Ø	Ø	X55a		A
22	2N6003†	400m	800M§Δ	4.0m	♦J		35	25	5.0	500m	10nØ	10Ø	1.0m	235 Δ	150uØ	17kØ		8.0p$Ø	Ø	X55a		A
23	2N6007†	400m	800M§Δ	4.0m	♦J		50	40	5.0	500m	10nØ	10Ø	1.0m	235 Δ	150uØ	17kØ		8.0p$Ø	Ø	X55a		A
24#	BCY38	410m	1.5M§	3.3m	§J		32	32	12	250m	100nØ	6.0Ø	10mØ	27					A	TO5		A§
25#	BCY39	410m	1.5M§	3.3m	§J		64	64	12	250m	100nØ	6.0Ø	10mØ	35					A	TO5		A§
26#	BCY54	410m	2.0M§	3.3m	§J		50	50	12	250m	100nØ	6.0Ø	10mØ	50					A	TO5		A§
27#	BCY40	410m	2.5M§	3.3m	§J		32	32	12	250m	100nØ	6.0Ø	10mØ	50					A	TO5		A§
28#	BCY10	415m	1.5M§	2.5m	§J		32	32 Ø	12	250m	100nØ	6.0Ø	10mØ	40				90p$	A	R8		F
29#	BCY11	415m	1.5M§	2.5m	§J		60	60 Ø	12	250m	100nØ	6.0Ø	10mØ	40				90p$	A	R8		F
30#	BCY12	415m	2.0M§	2.5m	§J		32	32 Ø	12	250m	100nØ	6.0Ø	10mØ	40				90p$	A	R8		F
31	2N2393	450m	50M§Δ	3.0m	§J		50	35	5.0	300m	1.0uØ	5.0Ø	1.0mØ	15 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	PL	u25		
32	2N2394	450m	60M§Δ	3.0m	§J		50	35	5.0	300m	1.0uØ	5.0Ø	1.0mØ	25 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	PL	u25		
33#	BCW75-10†	450m	100M§Δ	2.6m	§J			32	5.0	800m		1.0Ø	100mØ	160 †Ø				18pØ	PE	TO18		A
34#	BCW75-16†	450m	100M§Δ	2.6m	§J			32	5.0	800m		1.0Ø	100mØ	250 †Ø				18pØ	PE	TO18		A
35#	BCW75-25†	450m	100M§Δ	2.6m	§J			32	5.0	800m		1.0Ø	100mØ	400 †Ø				18pØ	PE	TO18		A
36#	BCW76-10†	450m	100M§Δ	2.6m	§J			45	5.0	800m		1.0Ø	100mØ	160 Ø†				18pØ	PE	TO18		A
37#	BCW76-16†	450m	100M§Δ	2.6m	§J			45	5.0	800m		1.0Ø	100mØ	250 †Ø				18pØ	PE	TO18		A
38#	BCW76-25†	450m	100M§Δ	2.6m	§J			45	5.0	800m		1.0Ø	100mØ	400 †Ø				18pØ	PE	TO18		A
39	2V435*	450m	170M§	2.6m	§J		25	25	4.5		.02uØ	10Ø	10mØ	130	130u	1.2k	2.6	20pØ	DPEØ	L17a		
40#	BCX78IX†	450m	200M§	3.5m	§J			32	5.0	100m	10n§	5.0Ø	2.0mØ	250 †Δ				4.5p$Ø	PEØ	X64d		A
41#	BCX78VII†	450m	200M§	3.5m	§J			32	5.0	100m	10n§	5.0Ø	2.0mØ	120 †Δ				4.5p$Ø	PEØ	X64d		A
42#	BCX78VIII†	450m	200M§	3.5m	§J			32	5.0	100m	10n§	5.0Ø	2.0mØ	180 †Δ				4.5p$Ø	PEØ	X64d		A
43#	BCX78X†	450m	200M§	3.5m	§J			32	5.0	100m	10n§	5.0Ø	2.0mØ	380 †Δ				4.5p$Ø	PEØ	X64d		A
44#	BCX79IX†	450m	200M§	3.5m	§J			45	5.0	100m	10n§	5.0Ø	2.0mØ	250 †Δ				4.5p$Ø	PEØ	X64d		A
45#	BCX79VII†	450m	200M§	3.5m	§J			45	5.0	100m	10n§	5.0Ø	2.0mØ	120 †Δ				4.5p$Ø	PEØ	X64d		A
46#	BCX79VIII†	450m	200M§	3.5m	§J			45	5.0	100m	10n§	5.0Ø	2.0mØ	180 †Δ				4.5p$Ø	PEØ	X64d		A
47#	BCX79X†	450m	200M§	3.5m	§J			45	5.0	100m	10n§	5.0Ø	2.0mØ	380 †Δ				4.5p$Ø	PEØ	X64d		A
48	KD5527	450mØ	2.0G	2.6m	J		20	12	2.5	50m	50nØ	1.0Ø	3.0mØ	20 †Δ				750f	PEØ	X72		V
49	K6001	450mØ	3.0G	2.6m	J		20	12	3.0	100m	10nØ	15	5.0mØ	20 †Δ				1.5p	PEØ	X72		V
50	K6002	450mØ	3.0G	2.6m	J		20	12	3.0	100m	10nØ	15	5.0mØ	20 †Δ				1.5p	PEØ	X72		V
51	K6003	450mØ	3.0G	2.6m	J		20	12	3.0	100m	10nØ	15	5.0mØ	20 †Δ				1.5p	PEØ	X72		V
52	K6007	450mØ	3.0G	2.6m	J		20	12	3.0	100m	10nØ	15	5.0mØ	20 †Δ				1.5p	PEØ	X72		V
53	K6008	450mØ	3.0G	2.6m	J		20	12	3.0	100m	10nØ	15	5.0mØ	20 †Δ				1.5p	PEØ	X72		V
54	K6009	450mØ	3.0G	2.6m	J		20	12	3.0	100m	10nØ	15	5.0mØ	20 †Δ				1.5p	PEØ	X72		V
55	KD6007	450mØ	3.5G	2.6m	J		20	12	3.0	100m	10nØ	15	5.0mØ	20 †Δ				1.5p	PEØ	X72		V
56	2N5811	500m		4.5m	†J		35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$Ø		X55a		A
57	2N5813	500m		4.5m	†J		35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	150 Δ				15p$Ø		X55a		A
58	2N5815	500m		4.5m	†J		50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$Ø		X55a		A
59	2N5817	500m		4.5m	†J		50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	100 Δ				15p$Ø		X55a		A
60	2N5819	500m		4.5m	†J		50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	150 Δ				15p$Ø		X55a		A
61	2N5821	500m		4.5m	†J		70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$Ø		X55a		A
62	2N5823	500m		4.5m	†J		70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	100 Δ				15p$Ø		X55a		A
63#	BFX30	500m		3.4m	§J		65	65	5.0	600m#	.07uØ	.40Ø	10mØ	50 †Δ				12pØ	PE	TO5		AØ
64	MD2904*	500m	200m§Δ	2.9m	§J		60	40	5.0	600m	20n#	10Ø	150mØ	40 †#Δ				8.0pØ	ANΔ	L17k		
65	HA7501	500m	.70M	4.0m	§J		60		60		.10uØ	5.0	1.0m	8.0					F			
66	HA7506	500m	.90M	4.0m	§J		35		35		.50uØ	5.0	1.0m	12					F			
67	2N5110	500m	1.0M§Δ	33m	§J		40	40	10	1	75u	10Ø	100mØ	10 Δ				500p		TO5		AØ
68	2N5111	500m	1.0M§Δ	33m	§J		80	80	10	1	75u	10Ø	100mØ	10 Δ				500p		TO5		AØ
69	HA7502	500m	1.0M	4.0m	§J		60		60		.10uØ	5.0	1.0m	16					F			
70	HA7510	500m	1.2M	4.0m	§J		35		35		.50uØ	5.0	1.0m	21					F			
71	HA7507	500m	1.6M	4.0m	§J		20		20		.10uØ	5.0	1.0m	15					F			
72	2N3910Ø	500m	4.0M§Δ	2.9m	§S		60	50	50	200m	50nØ	.50Ø	1.0mØ	40 †Δ				8pØ		TO46		AØ
73	2N3911Ø	500m	8.0M§Δ	2.9m	§S		60	40	40	200m	.5nØ	.50Ø	1.0mØ	60 †Δ				8pØ		TO46		AØ
74	2N3912Ø	500m	10M§Δ	2.9m	§S		60	30	30	200m	.5nØ	.50Ø	1.0mØ	90 †Δ				8pØ		TO46		AØ
75	MM4052	500m	12M§Δ	2.8m	§J		30	30	30	500m	500pØ	1.0Ø	10mØ	20 Δ				10pØ	Ø	TO46		A
76	D29E9	500m	80M§Δ	4.0m	§J		70	60	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	TO98		B
77#	2SA532	500m	90M§		§J		50	50	4.0	200m	10u	6.0Ø	50mØ	80 †					PL	TO39		
78	2N3806*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uØ	30kØ	25 Ø	4pØ	Ø	L17k		
79	2N3807*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uØ	40kØ	25 Ø	4pØ	Ø	L17k		
80	2N3808*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uØ	30kØ	25 Ø	4pØ	Ø	L17k		
81	2N3809*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uØ	40kØ	25 Ø	4pØ	Ø	L17k		
82	2N3810*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uØ	30kØ	25 Ø	4pØ	Ø	L17k		
83	2N3810A*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uØ	30kØ	25 Ø	4pØ	*Ø	L17h		
84	2N3811*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uØ	40kØ	25 Ø	4pØ	Ø	L17k		
85	2N3811A*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uØ	40kØ	25 Ø	4pØ	*Ø	L17h		
86	2N4026†	500m	100M§Δ	2.9m	§J		60	60	5.0	1	.05uØ	5.0Ø	.10mØ	30 †Δ				20p$Ø		TO18		AØ
87	2N4027†	500m	100M§Δ	2.9m	§J		80	80	5.0	1	.05uØ	5.0Ø	.10mØ	30 †Δ				20p$Ø		TO18		AØ
88	BC327	500m	100M§	4.0m	§J			45	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				8.0p$	PE	TO92		F
89	BC328	500m	100M§	4.0m	§J			25	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				8.0p$	PE	TO92		F
90#	BC432	500m	100M§	4.0m	§J		70	60	5.0	500m	100n§	1.0Ø	100mØ	63 Δ				12p	PE	TO92		A
91#	BFX29	500m	100M§Δ	3.4m	§J		60	60	5.0	600m#	.07uØ	10Ø	10mØ	50 †Δ				12pØ	PE	TO5		AØ
92	D29E1	500m	100M§Δ	4.0m	§J		35	25	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	TO98		B
93	D29E4	500m	100M§Δ	4.5m	†J		50	40	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE†	TO98		B
94	2N2837†	500m	120M§Δ	2.9m	§S		50	35	5.0	800m	.10u#	10Ø	.10mØ	20 Δ				25pØ		TO18		AØ
95	2N2838†	500m	120M§Δ	2.9m	§S		50	35	5.0	800m	.10u#	10Ø	.10mØ	30 Δ				25pØ		TO18		AØ
96	D29E5	500m	120M§Δ	4.5m	†J		50	40	5.0	750m	100n§	2.0Ø	2.0mØ	100 †Δ				15p$Ø	PE†	TO98		B
97	D29E10	500m	120M§Δ	4.0m	§J		70	60	5.0	750m	100n§	2.0Ø	2.0mØ	100 †Δ				15p$Ø	PE	TO98		B
98▼#	2SA695	500m	130M§	5.0m	♦J		25	20	4.0	700m	1.0u	1.0Ø	500mØ	100 †#					PE	TO92		
99▼#	2SA696	500m	130M§	5.0m	♦J		45	40	4.0	500m	1.0uØ	2.0Ø	150mØ	100 †#					PE	TO92		
100▼#	2SA697	500m	130M§	5.0m	♦J		65	60	4.0	500m	1.0uØ	2.0Ø	150mØ	100 †#					PE	TO92		
101#	BFX11*	500m	130M§Δ	2.2m	§J		45	45	4.5		10nØ	5.0Ø	1.0mØ	200 †				8.0pØ	DPEØ	L2d		
102	D29E2	500m	135M§Δ	4.0m	§J		35	25	5.0	750m	100n§	2.0Ø	2.0mØ	150 †Δ				15p$Ø	PE	TO98		B
103	D29E6	500m	135M§Δ	4.5m	†J		50	40	5.0	750m	100n	2.0Ø	2.0mØ	150 †Δ				15p$Ø	PE†	TO98		B
104	2N3765†	500m	150M§Δ	2.9m	§S		60	60	5.0	1.5	.1u#Ø	1.0Ø	500mØ	35 †Δ				15pØ		TO46		AØ
105	JAN2N3765†	500m	150M§Δ	2.8m	§J		60	60 *	5.0	1.5	100nØ	1.0Ø	500mØ	40 †Δ#				15pØ		TO46		AØ
106	2N4028†	500m	150M§Δ	2.9m	§J		60	60	5.0	1	.05uØ	5.0Ø	.10mØ	75 †Δ				20p$Ø		TO18		AØ
107	2N4029†	500m	150M§Δ	2.9m	§J		80	80	5.0	1	.05uØ	5.0Ø	.10mØ	75 †Δ				20p$Ø		TO18		AØ
108#	2SA643	500m	150M§	5.0m	♦J		40	20	5.0	500m	200nØ	1.0Ø	100mØ	60 †Δ				20p	E			B
109▼#	BC556	500m	150M§	4.0m	§J		80	65	5.0	100m	15nØ	5.0Ø	2.0mØ	75 Δ				4.5p$	PE	u135		A
110▼#	BC556A	500m	150M§	4.0m	§J		80	65	5.0	100m	15nØ	5.0Ø	2.0mØ	180				4.5p$	PE	u135		A

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1▼#	BC556VI	500m	150M§	4.0m	§J	80	65 *	5.0	100m	15nØ	5.0Ø	2.0mØ	110				4.5p$	PE	u69 F
2♦#	BC557	500m	150M§	4.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	75 Δ				4.5p$	PE	u135 A
3▼#	BC557A	500m	150M§	4.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	180				4.5p$	PE	u135 A
4▼#	BC557B	500m	150M§	4.0m	§J	50	45 *	5.0	100m	15nØ	5.0Ø	2.0mØ	330				4.5p$	PE	u69 F
5▼#	BC557VI	500m	150M§	4.0m	§J	50	45 *	5.0	100m	15nØ	5.0Ø	2.0mØ	110				4.5p$	PE	u69 F
6♦#	BC558	500m	150M§	4.0m	§J	30	30	5.0	100m	15nØ	5.0Ø	2.0mØ	75 Δ				4.5p$	PE	u135 A
7♦#	BC558A	500m	150M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	220				4.5p$	PE	u69 F
8♦#	BC558B	500m	150M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	330				4.5p$	PE	u69 F
9▼#	BC558C	500m	150M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	600				4.5p$	PE	u69 F
10▼#	BC558VI	500m	150M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	110				4.5p$	PE	u69 F
11♦#	BC559	500m	150M§	4.0m	§J	30	30	5.0	100m	15nØ	5.0Ø	2.0mØ	125 Δ				4.5p$	PEØ	u135 A
12♦#	BC559A	500m	150M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	220				4.5p$	PE	u69 F
13♦#	BC559B	500m	150M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	330				4.5p$	PEØ	u69 F
14▼#	BC559C	500m	150M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	600				4.5p$	PEØ	u69 F
15▼#	BC560A	500m	150M§	4.0m	§J	50	45 *	5.0	100m	15nØ	5.0Ø	2.0mØ	220				4.5p$	PE	u69 F
16▼#	BC560B	500m	150M§	4.0m	§J	50	45 *	5.0	100m	15nØ	5.0Ø	2.0mØ	330				4.5p$	PEØ	u69 F
17▼#	BC560C	500m	150M§	4.0m	§J	50	45 *	5.0	100m	15nØ	5.0Ø	2.0mØ	600				4.5p$	PEØ	u69 F
18#	BFS96	500m	150M§Δ	3.3m	§A	60	30	5.0	1.0 #	100nØ	10Ø	150mØ	40 †Δ#				15pØ	PL	X59 F
19#	BFS97	500m	150M§Δ	3.3m	§A	60	40	5.0	1.0 #	100nØ	10Ø	150mØ	100 †Δ#				15pØ	PL	X59 F
20#	BFS98	500m	150M§Δ	3.3m	§A	80	60	5.0	1.0 #	100nØ	10Ø	150m	40 †Δ#				15pØ	PL	X59 F
21	D29E7	500m	150M§Δ	4.5m	†J	50	40	5.0	750m	100n	2.0Ø	2.0mØ	250 †Δ				15p$Ø	PE†	TO98 B
22	2N5243†	500m	170M§Δ	5.0m	♦S	30	30	5.0	500m	.10u§	1.0Ø	.50mØ	25 †Δ#				35p$Ø		TO105 A
23	2N3764†	500m	180M§Δ	2.9m	§S	40	40	5.0	1.5	.1u#Ø	1.0Ø	500mØ	35 †Δ				15pØ		TO46 AØ
24	2N5795†	500m	200M§Δ	2.9m	§S	60	60	5.0	600m	20nØ	10Ø	1.0m	40 †Δ				8.0p$Ø		L2d
25	2N5796†	500m	200M§Δ	2.9m	§S	60	60	5.0	600m	20nØ	10Ø	1.0m	100 †Δ				8.0p$Ø		L2d
26#	BFW31†	500m	200M§	4.0m	§A	50	30 §	5.0	700m	500nØ	10Ø	10mØ	40 Δ	250uØ	4.0kØ	6.0 Ø	7.0p	PEØ	TO18 AØ
27	MD2904A*	500m	200M§Δ	2.9m	§J	60	60	5.0	600m	20n#	10Ø	150mØ	40 †#Δ				8.0pØ	AN△	L17k
28	MD2905*	500m	200M§Δ	2.9m	§J	60	40	5.0	600m	20n#	10Ø	150mØ	100 †#Δ				8.0pØ	AN△	L17k
29	MD2905A*	500m	200M§Δ	2.9m	§J	60	60	5.0	600m	20n#	10Ø	150mØ	100 †#Δ				8.0pØ	AN△	L17k
30	SK3118-RT	500m	200M§			50	40	5.0	750m				100 †						X55a A
31	2N6011†	500m	240M§Δ	4.0m	§J	50	40	5.0	800m	10nØ	10Ø	1.0m	90 Δ	120uØ	12kØ		15p$Ø	Ø	X55a A
32	2N6015†	500m	240M§Δ	4.0m	§J	70	60	5.0	800m	10nØ	10Ø	1.0m	90 Δ	120uØ	12kØ		15p$Ø	Ø	X55a A
33	2N4937*	500m	300M§Δ	2.9m	§S	50	40	5.0	50m	.02uØ	10Ø	1.0mØ	50 Δ	50uØ	10kØ	10 Ø	5p$Ø	*Ø	L17k
34	2N4938*	500m	300M§Δ	2.9m	§S	50	40	5.0	50m	.02uØ	10Ø	1.0mØ	50 Δ	50uØ	10kØ	10 Ø	5p$Ø	*Ø	L17k
35▼#	BC556B	500m	300M§	4.0m	§J	80	80	5.0	100m	15n	5.0Ø	2.0mØ	290 †	30u	4.5k	2.0	2.5 $		TO92 A
36	2N6013†	500m	360M§Δ	4.0m	§J	50	40	5.0	800m	10nØ	10Ø	1.0m	225 Δ	200uØ	20kØ		15p$Ø	Ø	X55a A
37	2N6017†	500m	360M§Δ	4.0m	§J	70	60	5.0	800m	10nØ	10Ø	1.0m	225 Δ	150uØ	20kØ		15p$Ø	Ø	X55a A
38	A5T4260	500m	1.6G§Δ	2.8m	§S	15	15 $	4.5	30m	5.0n#	1.0Ø	1.0 Ø	25 †Δ				2.5p$Ø	†	X55 A
39	A5T4261	500m	2.0G§Δ	2.8m	§S	15	15 $	4.5	30m	5.0n#	1.0Ø	1.0 Ø	25 †Δ				2.5p$Ø	†	X55 A
40#	BCW96	540m	135M§Δ	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	50mØ	100 †Δ				10pØ	PE	X55a A
41	BCW96A	540m	135M§Δ	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †Δ#				5.0p	PE△	X55a
42	BCW96B	540m	135M§Δ	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †Δ#				5.0p	PE△	X55a
43	BCW96KA	540m	135M§Δ	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †Δ#				5.0p	PE△	X55a
44	BCW96KB	540m	135M§Δ	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †Δ#				5.0p	PE△	X55a
45#	BCW97	540m	135M§Δ	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	50mØ	100 †Δ				10pØ	PE	X55a A
46	BCW97A	540m	135M§Δ	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †Δ#				5.0p	PE△	X55a
47	BCW97B	540m	135M§Δ	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †Δ#				5.0p	PE△	X55a
48	BCW97KA	540m	135M§Δ	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †Δ#				5.0p	PE△	X55a
49	BCW97KB	540m	135M§Δ	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †Δ#				5.0p	PE△	X55a
50▼	MD7004	550m	675M§	3.1m	§J	30	13 *	4.0	200m	100nØ	2.0Ø	10mØ	100 †#				2.5p	AN	L66c
51▼	MD3250*	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	75 †#				2.5p	AN	L66c
52▼	MD3250A*	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	75 †#				2.5p	AN*	L66c
53▼	MD3251	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	100 †#				2.5p	AN	L66c
54▼	MD3251A*	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	100 †#				2.5p	AN*	L66c
55	MM4000	600m		3.4m	§J	100	100 *	4.0	100m	1.0uØ	10Ø	10mØ	20 †#Δ				6pØ	EA	TO39 AØ
56	2N3305	600m	20M§Δ	4.0m	§S	50	40	6.0		50nØ	5.0Ø	1.0mØ	40 Δ	50uØ	3.0kØ	6.0 Ø	30pØ	Ø	TO5 AØ
57	2N3306	600m	20M§Δ	4.0m	§S	50	40	6.0		50nØ	5.0Ø	1.0mØ	70 Δ	80uØ	6.0kØ	10 Ø	30pØ	Ø	TO5 AØ
58	2N3857	600m	20M§Δ	3.4m	§S	45	45	30	500m	5.0nØ	6.0	1.0mØ	45 Δ	1.5uØb	35 Ø	20 Ø	10pØ	Ø	TO5 A
59	2N4412	600m	20M§Δ	3.4m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	120 Δ	500nb	32 Ø		10pØ	Ø	TO5 AØ
60	2N4412A	600m	20M§Δ	3.4m	§S	60	60	5.0	600m	10nØ	5.0Ø	1.0mØ	120 Δ	500nb	32 Ø		10pØ	Ø	TO5 Ø
61	2N4414	600m	20M§Δ	3.4m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	100 Δ	500nb	32 Ø		10pØ	Ø	TO5 AØ
62	2N4414A	600m	20M§Δ	3.4m	§S	60	60	5.0	600m	10nØ	5.0Ø	1.0mØ	100 Δ	500nb	32 Ø		10pØ	Ø	TO5 AØ
63	2N1991	600m	40M§Δ	4.8m	§J	30	20	5.0		5.0uØ	10Ø	150mØ	15 †#Δ				45pØ		TO5 AØ
64	2N1131	600m	50M§Δ	4.0m	§J	50	35	5.0	600m	100u	5.0Ø	1.0mØ	15 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	D	TO39 AØ
65♦	JAN2N1131	600m	50M§Δ	4.0m	§J	50	40	5.0	600m	1.0uØ	5.0Ø	1.0mØ	15 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	Δ	TO5 Ø
66	2N1131A†	600m	50M§Δ	4.0m	§J	60	40	5.0	600m	500nØ	5.0Ø	1.0mØ	15 Δ	1.0uØb	35 Ø	8.0 Ø	30pØ		TO39 AØ
67	2N1132	600m	60M§Δ	4.0m	§J	50	35	5.0	600m	100u	5.0Ø	1.0mØ	25 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	D	TO39 AØ
68♦	JAN2N1132	600m	60M§Δ	4.0m	§J	50	40	5.0	600m	1.0uØ	5.0Ø	1.0mØ	30 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	Δ	TO5 Ø
69	2N1132A†	600m	60M§Δ	4.0m	§J	60	40	5.0	600m	500nØ	5.0Ø	1.0mØ	25 Δ	1.0uØb	35 Ø	8.0 Ø	30pØ		TO39 AØ
70	2N1132B†	600m	60M§Δ	4.0m	§J	70	45	6.0	600m	10nØ	5.0Ø	1.0mØ	25 Δ	1.0uØb	35 Ø	8.0 Ø	30pØ		TO39 AØ
71	2N2303	600m	60M§Δ	4.0m	§J	50	35	5.0	500m	1.0uØ	5.0Ø	1.0mØ	75 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ		TO5 AØ
72#	2SA497	600m	70.M§	5.0m	§J	80	80	5.0	800m	1.0u	2.0Ø	200mØ	70 †				40pØ	PE	TO39 A
73#	2SA498	600m	70.M§	5.0m	§J	50	50	5.0	800m	1.0u	2.0Ø	200mØ	70 †				40pØ	PE	TO39 A
74	2N4928	600m	100M§Δ	3.4m	§S	100	100	4.0	100m	.50uØ	10Ø	1.0mØ	20 †Δ				6p$Ø		TO5 AØ
75#	2SA661	600m	100M§		§J	70	50	5.0	200m	100nØ	1.0Ø	50mØ	100 †				20pØ	PE	u83 B
76#	BFX87†	600m	100M§Δ	3.4m	§J	50	50	4.0	600m#	.05uØ	10Ø	10mØ	40 †Δ				12pØ	PE	TO5 AØ
77#	BFX88†	600m	100M§Δ	3.4m	§J	40	40	4.0	600m#	.05uØ	10Ø	10mØ	40 †Δ				12pØ	PE	TO5 AØ
78	TQ59†	600m	100M§Δ	3.4m	§J	40	30	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500nØb	35 Ø		10pØ	PE	TO5 A
79	TQ61†	600m	100M§Δ	3.4m	§J	40	30	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500nØb	35 Ø		10pØ	PE	TO5 A
80	TQ63†	600m	100M§Δ	3.4m	§J	20	20	5.0	600m	100nØ	5.0Ø	1.0mØ	20 Δ	500nØb	35 Ø		10pØ	PE	TO5 A
81#	2SA509	600m	140M§		♦	35	30	5.0	50m	100n	2.0Ø	50mØ	100 †				22p	EP	R67a
82	2N3081	600m	150M§Δ	3.4m	§J	70	50	6.0	600m	.01uØ	10Ø	150mØ	30 †Δ				13pØ	PE	TO5 AØ
83	2N3495†	600m	150M§Δ	3.4m	§S	120	120	4.5	100m	.10uØ	10Ø	10mØ	40 Δ	300uØ	1.2kØ	2 Ø	6pØ		TO5 AØ
84	HEP51-RT	600m♦	150M§		§J	30	25 §	4.0	600m§	1.0u§	20		80 †						TO5 A
85#	TS2904	600m	150M§Δ	3.4m	§J	60	30	5.0	600m	20nØ	10Ø	10mØ	35 †				12pØ	PE	TO39 AØ
86#	TS2905	600m	150M§Δ	3.4m	§J	60	30	5.0	600m	20nØ	10Ø	10mØ	75 †				12pØ	PE	TO39 AØ
87#	BFX36*	600m	160M§Ø	2.2m	§J	60	60	6.0	200m	10nØ	5.0Ø	1.0mØ	700 Ø	50uØ	20kØ	10 Ø	6.0pØ	DPEØ	L2b
88	2N2904†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	25 †Δ				8pØ		TO5 AØ
89	JAN2N2904†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	20nØ	10Ø	1.0mØ	25 Δ				8.0pØ		TO5 AØ
90	2N2904A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	40 †Δ				8pØ		TO5 AØ
91	JAN2N2904A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	10nØ	10Ø	1.0mØ	40 Δ				8.0pØ		TO5 AØ
92	2N2905†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	50 †Δ				8pØ		TO5 AØ
93	JAN2N2905†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	20nØ	10Ø	1.0mØ	50 Δ				8.0pØ		TO5 AØ
94	2N2905A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	100 †Δ				8pØ		TO5 AØ
95	JAN2N2905A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	10nØ	10Ø	1.0mØ	100 Δ				8.0pØ		TO5 AØ
96	2N3133†	600m	200M§Δ	3.4m	§S	50	35	4.0	600m	.05uØ	10Ø	150mØ	40 †#Δ				10pØ		TO5 AØ
97	2N3134†	600m	200M§Δ	3.4m	§S	50	35	4.0	600m	.05uØ	10Ø	150mØ	100 †#Δ				10pØ		TO5 AØ
98	2N3494†	600m	200M§Δ	3.4m	§S	80	80	4.5	100m	.10uØ	10Ø	10mØ	40 Δ	300uØ	1.2kØ	2 Ø	7pØ		TO5 AØ
99	2N3671†	600m	200M§Δ	3.4m	§S	60	50	5.0	600m	10nØ	10Ø	.10mØ	55 †Δ				9pØ		TO5 AØ
100#	2SA730	600m	200M§	6.0m	♦J	30	25	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	X113 B
101#	2SA731	600m	200M§	6.0m	♦J	60	50	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	X113 B
102#	BSV42	600m	200M§	4.5m	§J	70	70	5.0	500m	20n	10Ø	150mØ	110 †				8.0p	PE	TO39 Ø
103#	BSV43A	600m	200M§	4.5m	§J	60	60	5.0	500m	20n	10Ø	150mØ	80 †				8.0p	PE	TO39 Ø
104#	BSV43B	600m	200M§	4.5m	§J	60	60	5.0	500m	20n	10Ø	150mØ	200 †				8.0p	PE	TO39 Ø
105#	BSV44A	600m	200M§	4.5m	§J	60	40	5.0	500m	20n	10Ø	150mØ	80 †				8.0p	PE	TO39 Ø
106#	BSV44B	600m	200M§	4.5m	§J	60	40	5.0	500m	20n	10Ø	150mØ	200 †				8.0p	PE	TO39 Ø
107#	BSV45A	600m	200M§	4.5m	§J	30	30	5.0	500m	20n	10Ø	150mØ	80 †				8.0p	PE	TO39 Ø
108#	BSV45B	600m	200M§	4.5m	§J	30	30	5.0	500m	20n	10Ø	150mØ	200 †				8.0p	PE	TO39 Ø
109	NN7500	600m	200M§Δ	4.8m	§J	50	30	5.0	750m	100nØ	1.0Ø	350mØ	50 †#Δ				12p$Ø	PL†	X55a A
110	NN7501	600m	200M§Δ	4.8m	§J	50	30	5.0	750m	100nØ	1.0Ø	350mØ	75 †#Δ				12p$Ø	PL†	X55a A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE fN FREE AIR W/°C	T M E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L E A D C O D E
1	NN7502	600m	200M§△	4.8m	$J	50	30	5.0	750m	100nØ	1.0Ø	350mØ	125 †#△				12p$☑	PL†	X55a	A
2	NN7503	600m	200M§△	4.8m	$J	60	40	5.0	750m	100nØ	1.0Ø	350mØ	50 †#△				12p$☑	PL†	X55a	A
3	NN7504	600m	200M§△	4.8m	$J	60	40	5.0	750m	100nØ	1.0Ø	350mØ	75 †#△				12p$☑	PL†	X55a	A
4	NN7505	600m	200M§△	4.8m	$J	60	40	5.0	750m	100nØ	1.0Ø	350mØ	125 †#△				12p$☑	PL†	X55a	A
5▼	PN2906	600m	200M§	4.8m	$J	60	40	5.0	600m	20nØ	10Ø	1.0mØ	25 †△				8.0p☑	PL	TO92	A
6▼	PN2906A	600m	200M§	4.8m	$J	60	60	5.0	600m	10nØ	10Ø	1.0mØ	40 †△				8.0p☑	PL	TO92	A
7▼	PN2907	600m	200M§	4.8m	$J	60	60	5.0	600m	20nØ	10Ø	1.0mØ	50 †△				8.0p☑	PL	TO92	A
8▼	PN2907A	600m	200M§	4.8m	$J	60	60	5.0	600m	10nØ	10Ø	1.0mØ	100 †△				8.0p☑	PL	TO92	A
9#	TM1614	600m	200M§△	2.2m	§A	60	50 §	5.0	600m	.05uØ	10Ø	150mØ	40 †#				8p☑	PE	TO5	
10#	TM1712	600m	200M§△	2.2m	§A	60	40 §	5.0	600m	.05uØ	10Ø	150mØ	100 †#				8p☑	PE	TO5	
11#	MA0401	600m	250M§	4.8m	§J	60	50	5.0		50n§	10Ø	150mØ	40 †△#				6.0p	PE	TO5	
12#	MA0402	600m	250M§	4.8m	§J	60	45	5.0		50n§	10Ø	150mØ	100 †△#				6.0p	PE	TO5	
13#	BCW92	610m	135M§△	4.3m	$J	50	40	5.0	800m	30nØ	2.0Ø	150mØ	100 †△				15p☑	PE	X55a	A
14	BCW92A	610m	135M§△	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0mØ	60 †△				10p	PE△	X55a	
15	BCW92B	610m	135M§△	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0mØ	80 †△				10p	PE△	X55a	
16	BCW92KA	610m	135M§△	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0mØ	60 †△				10p	PE△	X55a	
17	BCW92KB	610m	135M§△	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0mØ	80 †△				10p	PE△	X55a	
18#	BCW93	610m	135M§△	4.3m	$J	70	60	5.0	800m	30nØ	2.0Ø	140mØ	100 †△				15p☑	PE	X55a	A
19	BCW93A	610m	135M§△	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0mØ	60 †△				10p	PE△	X55a	
20	BCW93B	610m	135M§△	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0mØ	80 †△				10p	PE△	X55a	
21	BCW93KA	610m	135M§△	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0mØ	60 †△				10p	PE△	X55a	
22	BCW93KB	610m	135M§△	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0mØ	80 †△				10p	PE△	X55a	
23	A8T4058	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 †△					PE	TO92	A
24	A8T4059	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 †△					PE	TO92	A
25	A8T4060	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 †△					PE	TO92	A
26	A8T4061	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	90 †△					PE	TO92	A
27	A8T4062	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	180 †△					PE	TO92	A
28#	BC231A	625m		5.0m	$S	40	30	5.0	400m	100nØ	5.0Ø	50mØ	100 △#					PE†	TO92	B
29#	BC231B	625m		5.0m	$S	40	30	5.0	400m	100nØ	5.0Ø	50mØ	200 †△#					PE†	TO92	B
30#	BF397	625m		5.0m	$S	90	90	6.0	100m	50nØ	10Ø	100uØ	20 †△					PE†	X55c	A
31#	BF398	625m		5.0m	$S	150	150	6.0	100m	50nØ	10Ø	10mØ	25 †△					PE†	X55c	A
32	TIS91	625m		5.0m	$S	40	40	5.0	400m	100nØ	2.0Ø	50mØ	100 †△					PE	TO92	B
33	TIS93	625m		5.0m	$J	40	40	5.0	400m	.10uØ	2.0Ø	50mØ	160 †					PE†	X55	A
34	A5T404	625m	4.0M△	5.0m	$S	25	24	12	150m	100nØ	.15Ø	12mØ	30 †△				20p☑	PE	X55	A
35	A5T404A	625m	4.0M△	5.0m	$S	40	35	25	150m	100nØ	.15Ø	12mØ	30 †△				20p☑	PE	X55	A
36	A8T404	625m	4.0M△	5.0m	$S	25	24	12	150m	100nØ	.15Ø	12mØ	30 †△				20p☑	PE	TO92	A
37	A8T404A	625m	4.0M△	5.0m	$S	40	35	25	150m	100nØ	.15Ø	12mØ	30 †△				20p☑	PE	TO92	A
38	A5T2604	625m	30M§△	5.0m	$S	60	45	6.0	30m	10nØ	5.0	1.0m	60 △	1.0ub☑	35 b☑	10 b☑	6.0p☑	PE	X55	A
39	A5T2605	625m	30M§△	5.0m	$S	60	45	6.0	30m	10nØ	5.0	1.0m	150 △	1.0ub☑	35 b☑	10 b☑	6.0p☑	PE	X55	A
40	A5T4248	625m	40M§△	5.0m	$S	40	40	5.0	100m	10nØ	5.0Ø	1.0mØ	50 △				6.0p☑	PE	X55	A
41	A5T4249	625m	40M§△	5.0m	$S	60	60	5.0	100m	10nØ	5.0Ø	1.0mØ	100 △	40u☑	17k☑	10 ☑	6.0p☑	PE	X55	A
42	A5T5086	625m	40M§△	5.0m	$S	50	50	3.0	50m	50nØ	5.0Ø	100uØ	150 †△				4.0p$☑	PE	X55	A
43	A5T5087	625m	40M§△	5.0m	$S	50	50	3.0	50m	50nØ	5.0Ø	100uØ	250 †△				4.0p$☑	PE	X55	A
44	MPSD51	625m	40M§△	5.0m	$J	200	200	4.0	100m	100nØ	10Ø	10mØ	25 †△					AN†	TO92	A
45	A5T4250	625m	50M§△	5.0m	$S	40	40	5.0	100m	10nØ	5.0Ø	1.0mØ	250 △	50u☑	20k☑	10 ☑	6.0p☑	PE	X55	A
46	A5T5226	625m	50M§△	5.0m	$S	25	25	4.0	500m	300nØ	10Ø	50mØ	30 †△				20p$☑	PE	X55	A
47	MPSA92	625m	50M§△	5.0m	$J	300	300	5.0	500m	250nØ	60Ø	30mØ	25 †△				6.0p$☑	AN	TO92	A
48	MPSA93	625m	50M§△	5.0m	$J	200	200	5.0	500m	250nØ	10Ø	30mØ	30 †△				8.0p$☑	AN	TO92	A
49♦	MPS6562	625m	60M§△	5.0m	$J	25	25 *	5.0	500m	100nØ	1.0Ø	10mØ	35 †△#				30p☑	AN†	TO92	A
50♦	MPS6563	625m	60M§△	5.0m	$J	25	20 *☑	5.0	600m	100nØ	1.0Ø	10mØ	35 †△#				30p☑	AN†	TO92	A
51	A5T3638†	625m	100M§△	5.0m	$S	25	25	4.0	500m	35n§Ø	10Ø	10mØ	25 △	1.2u☑	2.0k☑	15 ☑	20p☑	PE	X55	A
52	A5T4026†	625m	100M§△	5.0m	$S	60	60	5.0	1.0	50nØ	5.0Ø	100mØ	40 †△				20p☑	PE	X55	A
53	A5T4027†	625m	100M§△	5.0m	$S	80	80	5.0	1.0	50nØ	5.0Ø	100mØ	40 †△				20p☑	PE	X55	A
54	A5T5221	625m	100M§△	5.0m	$S	15	15	3.0	500m	100nØ	10Ø	50mØ	30 †△				15p$☑	PE	X55	A
55	A5T5227	625m	100M§△	5.0m	$S	30	30	3.0	50m	100nØ	10Ø	2.0mØ	50 †△				5.0p$☑	PE	X55	A
56	A5T5400	625m	100M§△	5.0m	$S	130	120	5.0	600m	100nØ	10Ø	1.0mØ	30 △				6.0p☑	PE†Ø	X55	A
57	A5T5401	625m	100M§△	5.0m	$S	160	150	5.0	600m	50nØ	10Ø	1.0mØ	40 △				6.0p☑	PE†Ø	X55	A
58	A8T3702	625m	100M§△	5.0m	$S	40	25	5.0	200m	100nØ	5.0Ø	50mØ	60 †△				12p☑	PE	TO92	A
59	A8T3703	625m	100M§△	5.0m	$S	50	30	5.0	200m	100nØ	5.0Ø	50mØ	30 †△				12p☑	PE	TO92	A
60	A8T4026†	625m	100M§△	5.0m	$S	60	60	5.0	1.0	50nØ	5.0Ø	100mØ	40 †△				20p☑	PE	TO92	A
61	A8T4027†	625m	100M§△	5.0m	$S	80	80	5.0	1.0	50nØ	5.0Ø	100mØ	40 †△				20p☑	PE	TO92	A
62#	BCX75-16†	625m	100M§△	5.0m	$J		32	5.0	800m	20n§	1.0Ø	100mØ	100 †△				18p$☑	PE†	X64d	A
63#	BCX75-25†	625m	100M§△	5.0m	$J		32	5.0	800m	20n§	1.0Ø	100mØ	160 †△				18p$☑	PE†	X64d	A
64#	BCX75-40†	625m	100M§△	5.0m	$J		32	5.0	800m	20n§	1.0Ø	100mØ	250 †△				18p$☑	PE†	X64d	A
65#	BCX76-25†	625m	100M§△	5.0m	$J		45	5.0	800m	20n§	1.0Ø	100mØ	160 †△				18p$☑	PE†	X64d	A
66#	BCX76-40†	625m	100M§△	5.0m	$J		45	5.0	800m	20n§	1.0Ø	100mØ	250 †△				18p$☑	PE†	X64d	A
67	MPS4354†	625m	100M§△	5.0m	$J	60	60	5.0	1.0	50nØ	10Ø	10mØ	200	100u	550	1.0	30p$☑	ANØ	TO92	A
68	MPS4355†	625m	100M§△	5.0m	$J	60	60	5.0	1.0	50nØ	10Ø	10mØ	200	100u	550	1.0	30p$☑	ANØ	TO92	A
69	MPS4356†	625m	100M§△	5.0m	$J	80	80	5.0	1.0	50nØ	10Ø	10mØ	200	100u	550	1.0	30p$☑	ANØ	TO92	A
70♦	MPSA55	625m	100M§△	5.0m	$J	60	60 *	4.0	500m	100n	1.0Ø	10mØ	50 †△#					AN†	TO92	A
71♦	MPSA56	625m	100M§△	5.0m	$J	80	80 *	4.0	500m	100n	1.0Ø	10mØ	50 †△#					AN†	TO92	A
72	2N6067†	625m	150M§△	5.0m	$S	50	40	5.0	100m	500nØ	1.0Ø	10mØ	40 †△				16p$☑		TO92	A
73	A5T3497†	625m	150M§△	5.0m	$S	120	120	4.5	100m	100nØ	10Ø	10mØ	40 △	300u☑	1.2k☑	2.0 ☑	6.0p☑	PE	X55	A
74	A5T3638A†	625m	150M§△	5.0m	$S	25	25	4.0	500m	35n§Ø	10Ø	10mØ	100 △	1.2u☑	2.0k☑	15 ☑	10p☑	PE	X55	A
75	A5T4028†	625m	150M§△	5.0m	$S	60	60	5.0	1.0	50nØ	5.0Ø	100mØ	100 †△				20p☑	PE	X55	A
76	A5T4029†	625m	150M§△	5.0m	$S	80	80	5.0	1.0	50nØ	5.0Ø	100mØ	100 †△				20p☑	PE	X55	A
77	A5T4402†	625m	150M§△	5.0m	$S	40	40	5.0	600m	100nØ	10Ø	1.0mØ	30 △	100u☑	7.5k☑	8.0 ☑	8.5p☑	PE	X55	A
78	A8T4028†	625m	150M§△	5.0m	$S	60	60	5.0	1.0	50nØ	5.0Ø	100mØ	100 †△				20p☑	PE	TO92	A
79	A8T4029†	625m	150M§△	5.0m	$S	80	80	5.0	1.0	50nØ	5.0Ø	100mØ	100 †△				20p☑	PE	TO92	A
80	A5T3496†	625m	200M§△	5.0m	$S	80	80	4.5	100m	100nØ	10Ø	10mØ	40 △	300u☑	1.2k☑	2.0 ☑	7.0p☑	PE	X55	A
81	A5T3504†	625m	200M§△	5.0m	$S	45	45	5.0	600m	10nØ	10Ø	10mØ	135 △	800u☑	2.3k☑	15 ☑	8.0p☑	PE	X55	A
82	A5T3505†	625m	200M§△	5.0m	$S	60	60	5.0	600m	10nØ	10Ø	10mØ	135 △	800u☑	2.3k☑	15 ☑	8.0p☑	PE	X55	A
83	A5T4403†	625m	200M§△	5.0m	$S	40	40	5.0	600m	100nØ	10Ø	1.0mØ	60 △	100u☑	15k☑	8.0 ☑	8.5p☑	PE	X55	A
84	MPS6533M	625m	260M	5.0m	§J	40	40	4.0	600m	50n	1.0Ø	100mØ	40 †△				8.0p☑	PE	TO92	A
85	MPS6534M	625m	260M	5.0m	§J	40	40	4.0	600m	50n	1.0Ø	100mØ	90 †△				8.0p☑	PE	TO92	A
86	MPS6535M	625m	260M	5.0m	§J	30	30	4.0	600m	100n	1.0Ø	100mØ	30 †△				8.0p☑	PE	TO92	A
87▼	2N5771	625m	850M§△	5.0m	$J	15	15	4.5	50m	10nØ	.50Ø	1.0mØ	35 †△				3.0p$☑		TO92	A
88	MPSH83	625m	950M§	4.5m	§J	30	30	3.0		10nØ	10Ø	2.5mØ	20 †△				300ft☑	ANØ	u96	A
89	HS5811	700m		6.3m	†J	35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	60 †△				15p$☑	PE	X28	A
90	HS5813	700m		6.3m	†J	35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	150 †△				15p$☑	PE	X28	A
91	HS5815	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	60 †△				15p$☑	PE	X28	A
92	HS5817	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	100 †△				15p$☑	PE	X28	A
93	HS5819	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	150 †△				15p$☑	PE	X28	A
94	HS5821	700m		6.3m	†J	70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	60 †△				15p$☑	PE	X28	A
95	HS5823	700m		6.3m	†J	70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	100 †△				15p$☑	PE	X28	A
96	2N3931	700m	40M§△	4.0m	§J	180	180	6.0	100m	10nØ	10Ø	1.0mØ	100 △				7.0p☑	Ø	TO39	Ø
97	2N4358	700m	40M§△	4.0m	§J	240	240	6.0	100m	.02uØ	10Ø	1.0mØ	100 △	25u☑	12k☑		7p☑	Ø	TO39	AØ
98#	BC139	700m	40M§△	4.0m	§J	40	40	5.0		.02uØ	1.0Ø	300mØ	40 †				10p☑	DPE	TO5	
99	2N3224	700m	60M§△	4.6m	§S	100	100	6.0		100nØ	5.0Ø	1.0mØ	20 △				20p☑		TO5	AØ
100#	BFW44	700m	60.M§	4.0m	§J	150	150	6.0		.01uØ	10Ø	10mØ	40 †#△				7p☑	PE	TO39	AØ
101#	BFX91	700m	60.M§	4.0m	§J	180	180	6.0		.01uØ	10Ø	1.0mØ	170 †#				5.0p	PE	TO39	AØ
102	2N3225	700m	80M§△	4.6m	§S	100	100	6.0		100nØ	5.0Ø	1.0mØ	40 △				20p☑		TO5	AØ
103	D29E4J1	700mØ	80M§△	5.6mØ	$J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	60 †△				15p$☑	PE†	X28	B
104	D29E9J1	700m	80M§△	5.6m	$J	70	60	5.0	750m	100n§	2.0Ø	2.0mØ	60 †△				15p$☑	PE	X28	B
105#	V765	700m	80M§	4.5m	§	120	120	5.0	500m	100n	10Ø	25mØ	140 †				3.0p	PE	TO39	A
106#	BC143	700m	100M§△	4.0m	§J	60	60	5.0		.05uØ	2.0Ø	200mØ	20 †△				20p☑	PE	TO5	
107	D29E1J1	700m	100M§△	5.6m	$J	35	25	5.0	750m	100n§	2.0Ø	2.0mØ	60 †△				15p$☑	PE	X28	B
108	D29E5J1	700mØ	120M§△	5.6mØ	$J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	100 †△				15p$☑	PE†	X28	B
109	D29E10J1	700m	120M§△	5.6m	$J	70	60	5.0	750m	100n§	2.0Ø	2.0mØ	100 †△				15p$☑	PE	X28	B
110#	BCW96K	700m	135M§△	5.6m	$J	50	40	5.0	400m	30nØ	2.0Ø	50mØ	100 †△				10p☑	PE	X28	A

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	BCW97K	700m	135M§△	5.6m	§J	70	60	5.0	400m	30nØ	2.0Ø	50mØ	100 †△				10pℤ	PE	X28 A
2	D29E2J1	700m	135M§△	5.6m	§J	35	25	5.0	750m	100n§	2.0Ø	2.0mØ	150 △				15p§ℤ	PE	X28 B
3	D29E6J1	700mØ	135M§△	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	150 †△				15p§ℤ	PE†	X28 B
4	D29E7J1	700mØ	150M§△	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	250 †△				15p§ℤ	PE†	X28 B
5#	V410A	700m	170M§	4.0m	§J	35	35	4.0		.10uØ	1.0Ø	50mØ	40 †#△				20p	PE	TO39 AØ
6	2N3502†	700m	200M§△	4.0m	§J	45	45	5.0	600m	.01u§	10Ø		35 △	800uℤ	23kℤ	15 ℤ	8pℤ	Ø	TO5 AØ
7	2N3503†	700m	200M§△	4.0m	§J	60	60	5.0	600m	.01u§	10Ø	10mØ	35 †△	800uℤ	23kℤ	15 ℤ	8pℤ	Ø	TO5 AØ
8#	2SA742H†	700m	200M§△	4.6m	§J	60	60	5.0	500m	100n§	1.6Ø	100mØ	80 †△				8.0pℤ	PE	TO39 AØ
9#	BSW23†	700m	200M§△	4.0m	§J						10Ø	150mØ	40 #△					PE	TO5
10#	BFY64†	700m	250M§	4.0m	§J	40	40	5.0		.03u§	10Ø	10mØ	200	110u	1.0k	2.4	6.0p	DPE	TO5 AØ
11#	2SA546	750m	80.M§	5.0m	§J	70	60	5.0	1	3.0uØ	3.0Ø	1 Ø	25 †△				50p	PE	TO39 AØ
12#	2SA546A	750m	80.M§	5.0m	§J	90	80	5.0	1	3.0uØ	3.0Ø	1 Ø	25 †△				50p	PE	TO39 AØ
13	2N5855	750m	100M§△	6.8m	†S	60	60	5.0	1.0	100n§	10Ø	10mØ	50 †△#				15pℤ		TO105 A
14	2N5857	750m	100M†△	6.8m	†S	80	80	5.0	1.0	100n§	10Ø	10mØ	50 †△#				15pℤ		TO105 A
15#	BC160-6	750m	100M§	5.0m	§J	40	40	5.0	1.0	100n§	1.0Ø	100mØ	40 †△				20p	PE	TO39 AØ
16#	BC160-10	750m	100M§	5.0m	§J	40	40	5.0	1.0	100n§	1.0Ø	100mØ	63 †△				20p	PE	TO39 AØ
17#	BC160-16	750m	100M§	5.0m	§J	40	40	5.0	1.0	100n§	1.0Ø	100mØ	100 †△				20p	PE	TO39 AØ
18#	BC161-6	750m	100M§	5.0m	§J	60	60	5.0	1.0	100n§	1.0Ø	100mØ	40 †△				20p	PE	TO39 AØ
19#	BC161-10	750m	100M§	5.0m	§J	60	60	5.0	1.0	100n§	1.0Ø	100mØ	63 †△				20p	PE	TO39 AØ
20#	BC161-16	750m	100M§	5.0m	§J	60	60	5.0	1.0	100n§	1.0Ø	100mØ	100 †△				20p	PE	TO39 AØ
21	HA9500	750m	100M§		§A	40		5.0		1.0uØ	20Ø	150mØ	45 †ℤ				15pℤ	ME△	TO5
22	HA9501	750m	100M§		§A	40		5.0		1.0uØ	20Ø	150mØ	90 †ℤ				15pℤ	ME△	TO5
23	HA9502	750m	100M§		§A	50		5.0		1.0uØ	20Ø	150mØ	100 †ℤ				15pℤ	ME△	TO5
24#	2SA544†	750m	160M§△	5.0m	§J	60	45	5.0	200m	100nØ	10Ø	10mØ	40 †△				7.0pℤ	PE	TO39 AØ
25#	2SA552†	750m	160M§△	5.0m	§J	60	45	5.0	200m	100nØ	10Ø	10mØ	40 †△				7.0pℤ	PE	TO39 AØ
26▼#	2SB544	750m	180M§		♦	25	25	5.0	1.0	1.0uØ	2.0	50m	60 †				25p	PE	u55a B
27#	2SA537	750m	200M§	4.3m	§J	60	50	4.0	700m		4.0Ø	50mØ	80 †					PE	TO5 AØ
28#	2SA537A	750m	200M§	4.3m	§J	90	80	4.0	700m		4.0Ø	50mØ	80 †					PE	TO5 AØ
29#	2SA594	750m	200M§		§J	50	30	5.0	200m	.10uØ	1.0Ø	10mØ	60 †				7.0p	D	TO5 A
30#	2SA712†	750m	300M§△	5.0m	§J	150	150	5.0	500m	100nØ	10Ø	50mØ	110 †				5.5p	E	TO39 AØ
31#	BSW40-6†	790m	50M§△	4.5m	§J	100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	20 †△				20pℤ§	PE	TO39 AØ
32#	BSW40-10†	790m	50M§△	4.5m	§J	100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	30 †△				20pℤ§	PE	TO39 AØ
33#	BSW40-16†	790m	50M§△	4.5m	§J	100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	40 †△				20pℤ§	PE	TO39 AØ
34#	BSW40-25†	790m	50M§△	4.5m	§J	100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	50 †△				20pℤ§	PE	TO39 AØ
35#	BC311	800m			§	70	70	5.0	1.0	50n	10Ø	10mØ	110 †				13p	PE	TO5 A
36#	BFS90A	800m		5.3m	§S	140	140	6.0	100m	50nØ	10Ø	10mØ	30 †△#					PEØ	TO39 AØ
37#	BFS90B	800m		5.3m	§S	140	140	6.0	100m	50nØ	10Ø	10mØ	90 †△#					PEØ	TO39 AØ
38#	BFS91A	800m		5.3m	§S	80	80	6.0	100m	50nØ	10Ø	10mØ	40 †△#					PEØ	TO39 AØ
39#	BFS91B	800m		5.3m	§S	80	80	6.0	100m	50nØ	10Ø	10mØ	100 †△#					PEØ	TO39 AØ
40#	2SA510	800m	50M§	6.4m	§J	110	100	5.0	1.0	1.0uØ	10Ø	50m	50				60pℤ	PL	TO39
41#	2SA511	800m	50M§	6.4m	§J	90	80	5.0	1.0	1.0uØ	10Ø	50m	50				60pℤ	PL	TO39
42#	2SA512	800m	50M§	6.4m	§J	70	60	5.0	1.0	1.0uØ	10Ø	50m	50				60pℤ	PL	TO39
43#	2SA513	800m	50M§	6.4m	§J	50	40	5.0	1.0	1.0uØ	10Ø	50m	50				60pℤ	PL	TO39
44#	2SA516	800m	50.M§	5.3m	§J	80	60	5.0	15	50uØ	2.0Ø	200mØ	60 †				43p	D	TO5 A
45#	2SA516A	800m	50.M§	5.3m	§J	120	100	5.0	15	50uØ	2.0Ø	200mØ	60 †				43p	D	TO5 A
46♦#	BC636	800m	50M§	6.0m	§	45	45	5.0	1.0	100nØ	2.0Ø	150mØ	40 †△					PE	TO92 D
47♦#	BC638	800m	50M§	6.0m	§	60	60	5.0	1.0	100nØ	2.0Ø	150mØ	40 †△					PE	TO92 D
48♦#	BC640	800m	50M§	6.0m	§	100	80	5.0	1.0	100nØ	2.0Ø	150mØ	40 †△					PE	TO92 D
49#	BFR61†	800m	50M§△	6.4m	§J	60	60	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 △				8.0pℤ	PE	u125 B
50#	BFR62†	800m	50M§△	6.4m	§J	40	40	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 △				8.0pℤ	PE	u125 B
51#	TCS101	800m	50M§△	6.4m	§S	60	60	5.0	1.0	100nØ	5.0Ø	150mØ	50 #△				10pℤ	PE	X55 A
52#	TCS103	800m	50M§△	6.4m	§S	60	60	5.0	1.0	100nØ	5.0Ø	150mØ	100 #△				10pℤ	PE	X55 A
53#	BFR60†	800m	60M§△	6.4m	§J	80	80	6.0	1.0	50nØ	6.0Ø	1.0mØ	10 △				8.0pℤ	PE	u125 B
54#	BFT60	800m	60M§△	4.5m	§A	80	35	6.0	1.0	2.5uţØ	6.0Ø	1.0mØ	10 △				8.0pℤ	PE	TO39 AØ
55#	BFT61	800m	60M§△	4.5m	§A	60	30	6.0	1.0	2.5uţØ	6.0Ø	1.0mØ	30 △				8.0pℤ	PE	TO39 AØ
56#	BFT62	800m	60M§△	4.5m	§A	40	20	6.0	1.0	2.5uţØ	6.0Ø	1.0mØ	30 △				8.0pℤ	PE	TO39 AØ
57	2N2927†	800m	100M§△	4.5m	§J	25	25	4.0	500m	.02uØ	10Ø	10mØ	25 △	1.2mℤ	1.5kℤ	26 ℤ	20pℤ		TO5 AØ
58	2N4030†	800m	100M§△	4.5m	§J	60	60	5.0	1	.05uØ	5.0Ø	.10mØ	30 †△				20p§ℤ		TO5 AØ
59	2N4031†	800m	100M§△	4.5m	§J	80	80	5.0	1	.05uØ	5.0Ø	.10mØ	30 †△				20p§ℤ		TO5 AØ
60▼#	2SA682	800m	100M§		§J	80	80	5.0	750m	500nØ	2.0Ø	150mØ	120 †				15p	PE	u119 B
61#	2SA708	800m	100M§	6.4m	§J	80	60	8.0	700m	100nØ	2.0Ø	50mØ	80 †#△				25p	E	TO39 AØ
62#	2SA708A	800m	100M§	6.4m	§J	100	80	8.0	700m	100nØ	2.0Ø	50mØ	80 †#△				25p	E	TO39 AØ
63▼#	2SB525	800m	100M§	6.9m	†J	30	25	4.0	1.0	1.0uØ	1.0Ø	500mØ	100 †#					PE	TO92
64#	BC360-6	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	40 †△				10p	PE	TO39 AØ
65#	BC360-10	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	63 †△				10p	PE	TO39 AØ
66#	BC360-16	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	100 †△				10p	PE	TO39 AØ
67#	BC361-6	800m	100M§	4.5m	§J	60	60	5.0	500m	100n§	5.0Ø	50mØ	40 †△				10p	PE	TO39 AØ
68#	BC361-10	800m	100M§	4.5m	§J	60	60	5.0	500m	100n§	5.0Ø	50mØ	63 †△				10p	PE	TO39 AØ
69#	BFT79	800m	100M§△	4.5m	§A	90	80	5.0	1.0	100nØ	10Ø	100mØ	50 †△				10pℤ	PE	TO39 AØ
70#	BFT80	800m	100M§△	4.5m	§A	70	60	5.0	1.0	100nØ	10Ø	100mØ	75 †△				10pℤ	PE	TO39 AØ
71#	BFT81	800m	100M§△	4.5m	§A	60	50	5.0	1.0	100nØ	10Ø	100mØ	100 †△				10pℤ	PE	TO39 AØ
72#	BFX38	800m	100M§△	4.5m	§J	55	55	5.0	1.0	50nØ	5.0Ø	100uØ	65 †				15p	DPE	TO5 Ø
73#	BFX39	800m	100M§△	4.5m	§J	55	55	5.0	1.0	50nØ	5.0Ø	100uØ	65 †				15p	DPE	TO5 Ø
74#	BFX40	800m	100M§△	4.5m	§J	75	75	5.0	1.0	50nØ	5.0Ø	100uØ	125 †				15p	DPE	TO5 Ø
75#	BFX41	800m	100M§△	4.5m	§J	75	75	5.0	1.0	50nØ	5.0Ø	100uØ	125 †				15p	DPE	TO5 Ø
76#	BSX40	800m	100M§△	4.5m	§J	30	30	5.0	500m	25nØ	10Ø	10mØ	40 †△				10pℤ	PE	TO39 AØ
77	2N2800†	800m	120M§△	4.5m	§S	50	35	5.0	800m	.10u#	10Ø	.10mØ	20 △				25pℤ		TO5 AØ
78	2N2801†	800m	120M§△	4.5m	§S	50	35	5.0	800m	.10u#	10Ø	.10mØ	30 △				25pℤ		TO5 AØ
79	2N3072†	800m	130M§△	4.5m	§J	60	60	4.0	500m	.01u§	10Ø	10mØ	25 △	1.2mℤ	1.5kℤ	26 ℤ	10pℤ		TO5 AØ
80	2N3120†	800m	130M§△	4.5m	§J	45	45	4.0	500m	.01u§	10Ø	10mØ	25 △	1.2mℤ	1.5kℤ	26 ℤ	10pℤ		TO5 AØ
81#	2SA503†	800m	130M§	5.3m	§J	60	50	5.0	600m	.50uØ	2.0Ø	150mØ	30 †△				18p	PE	TO39 AØ
82#	2SA504†	800m	130M§	5.3m	§J	40	30	5.0	600m	.50uØ	2.0Ø	150mØ	30 †△				18p	PE	TO39 AØ
83#	BCW92K	800m	135M§△	6.4m	§J	50	40	5.0	800m	30nØ	2.0Ø	150mØ	100 †△				15pℤ	PE	X28 A
84#	BCW93K	800m	135M§△	6.4m	§J	70	60	5.0	800m	30nØ	2.0Ø	150mØ	100 †△				15pℤ	PE	X28 A
85	2N4032†	800m	150M§△	4.5m	§J	60	60	5.0	1	.05uØ	5.0Ø	.10mØ	75 †△				20p§ℤ		TO5 AØ
86	2N4033†	800m	150M§△	4.5m	§J	80	80	5.0	1	.05uØ	5.0Ø	.10mØ	75 †△				20p§ℤ		TO5 AØ
87#	2SA560	800m	150M§			80	60	5.0	800m	.50u	2.0Ø	150mØ	60 †				19p	PE	TO39
88#	BFR79†	800m	150M§	6.4m	§S	90	80	5.0	1.0	100nØ	10	1.0	20 †△#				6.5p	PE	TO92 B
89#	BFR79TO5†	800m	150M§	6.4m	§S	90	80	5.0	1.0	100nØ	10	1.0	25 †△#				6.5p	PE	u125 B
90#	BFR80†	800m	150M§	6.4m	§S	70	60	5.0	1.0	100nØ	10	1.0	25 †△#				6.5p	PE	TO92 B
91#	BFR80TO5†	800m	150M§	6.4m	§S	70	60	5.0	1.0	100nØ	10	1.0	25 †△#				6.5p	PE	u125 B
92#	BFR81†	800m	150M§	6.4m	§S	60	50	5.0	1.0	100nØ	10	1.0	25 †△#				6.5p	PE	TO92 B
93#	BFR81TO5†	800m	150M§	6.4m	§S	60	50	5.0	1.0	100nØ	10	1.0	25 †△				6.5p	PE	u125 B
94#	BFX74A	800m	150M§	4.5m	§J	60	60	5.0		.05uØ	10Ø	150mØ	50 †#				15p	PE	TO5 AØ
95#	BSX41	800m	150M§△	4.5m	§J	30	30	5.0	500m	25nØ	10Ø	10mØ	100 †△				10pℤ	PE	TO39 AØ
96#	2SA571†	800m	200M§△	5.6m	§J	60	45	5.0	1.0	100n§	10Ø	50mØ	40 †△				25pℤ	PE	TO5
97#	BC116A	800m	200M§	8.0m	♦J	45	40	5.0		50n	10Ø	10mØ	70 †△				6.0p	PE	TO105 A
98#	BC287	800m	200M§	4.5m	§J	60	60	5.0	1.0	500nØ	2.0Ø	500mØ	20 †△				13p	DPE	TO5
99#	BCW45	800m	200M	4.5m	§	70	55	5.0	1.0	100n	1.0Ø	200mØ	40 †				3.0p	PE	TO39 A
100#	V745	800m	240M§	8.0m	§J	50	40	5.0		100u	10Ø	50mØ	95 †				15p	PE	TO39 A
101#	BC231M	800m	250M§	5.3m	§J	40	30	5.0	400m	100nØ	5.0Ø	50mØ	100 †△*				6.0p	PE	TO39 AØ
102#	BF323	800m	250M§	5.3m	§J	30	25	3.0	600m		10Ø	10mØ	300 †ℤ*				6.0p	PE	TO39 AØ
103	BC313†	800m	300M§	5.3m	§J	60	40	5.0	1.0	100n§	2.0Ø	500m	20 †△				10p	PL	TO39 AØ
104	BC313A†	800m	300M§	5.3m	§J	80	60	5.0	1.0	100n§	2.0Ø	500m	20 †△				10p	PL	TO39 AØ
105	2N5042	800m	500M§ℤ	4.5m	§J	40	40	5.0	1	.05uØ	1.0Ø	150mØ	40 †#				35p§		TO39 AØ
106▼#	BC303-4	850m		40mØ	§J	85	60	5.0		20nØ	10Ø	150mØ	40 △						TO39
107▼#	BC303-5	850m		40mØ	§J	85	60	5.0		20nØ	10Ø	150mØ	70 △						TO39
108▼#	BC303-6	850m		40mØ	§J	85	60	5.0		20nØ	10Ø	150mØ	120 △						TO39
109▼#	BC304-4	850m		40mØ	§J	60	45	5.0		20nØ	10Ø	150mØ	40 △						TO39
110▼#	BC304-5	850m		40mØ	§J	60	45	5.0		20nØ	10Ø	150mØ	70 △						TO39

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E M A P X	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1▼#	BC304-6	850m		40mØ	§J	60	45	5.0		20nØ	10Ø	150mØ	120 Δ						TO39	
2▼#	BC461-4	850m		550mØ	§J	75	60	5.0		100nØ	4.0Ø	500mØ	40 Δ						TO5	
3▼#	BC461-5	850m		550mØ	§J	75	60	5.0		100nØ	4.0Ø	500mØ	60 Δ						TO5	
4▼#	BC461-6	850m		550mØ	§J	75	60	5.0		100nØ	4.0Ø	500mØ	115 Δ						TO5	
5#	BSS44†	870m	70M§Δ	5.0m	§J	65	60	6.0	5.0	500n§	2.0Ø	500mØ	30 †Δ#				100p§☑	PE	TO39	A
6#	BSS46†	870m	70M§Δ	5.0m	§J	85	80	6.0	5.0	500n§	2.0Ø	500mØ	25 †Δ#				150p§☑	PE	TO39	A
7#	BCW79-10†	870m	100M§Δ	5.0m	§J		32	5.0	800m		1.0Ø	100mØ	160 †☑				18p☑	PE	TO39	A
8#	BCW79-16†	870m	100M§Δ	5.0m	§J		32	5.0	800m		1.0Ø	100mØ	250 †☑				18p☑	PE	TO39	A
9#	BCW79-25†	870m	100M§Δ	5.0m	§J		32	5.0	800m		1.0Ø	100mØ	400 †☑				18p☑	PE	TO39	A
10#	BCW80-10†	870m	100M§Δ	5.0m	§J		45	5.0	800m		1.0Ø	100mØ	160 †☑				18p☑	PE	TO39	A
11#	BCW80-16†	870m	100M§Δ	5.0m	§J		45	5.0	800m		1.0Ø	100mØ	250 †☑				18p☑	PE	TO39	A
12#	BCW80-25†	870m	100M§Δ	5.0m	§J		45	5.0	800m		1.0Ø	100mØ	400 †☑				18p☑	PE	TO39	A
13#	BCY67	1.0	180M§	2.2m	§J		45	5.0	50m		5.0Ø	2.0mØ	350 †	30u	4.5k	2.0	7.0p☑	PEØ	TO18	A
14	HA7516	5.0 Ø	1.0M	7.1m	§J	90		90		100n	5.0	1.0m	45	1.2ub	30	4.0	95p	A	X3	
15	HA7517	5.0 Ø	1.0M	7.1m	§J	110		110		100n	5.0	1.0m	45	1.2ub	30	4.0	95p	A	X3	
16	HA7518	5.0 Ø	1.0M	7.1m	§J	60		60		100n	5.0	1.0m	90	1.2ub	30	4.0	95p	A	X3	
17#	2SA257	5.0 Ø	80M§		§J	50	40	5.0	2.0	5.0u	2.0Ø	200mØ	50 †				40p☑	EM	TO5	Ø
18#	2SA258	5.0 Ø	80M§		§J	50	40	5.0	2.0	5.0u	2.0Ø	100mØ	70 †				40p☑	EM	TO5	Ø
19#	2SA527	5.0 Ø	80M§		§J	50	40	5.0	2.0	5.0u	2.0Ø	200mØ	50 †				40p☑	EM	TO5	Ø
20#	2SA528	5.0 Ø	80M§		§J	50	40	5.0	2.0	5.0u	2.0Ø	100mØ	70 †				40p☑	EM	TO5	Ø
21#	2SC1055H†	25 Ø			§J						4.0Ø	5.0 Ø	30 Δ†					D	TO66	

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N622		300k△	2.8m	§J	50	30	20	50m	100n	1.5Ø	500u△	25 †				70pØ	FAØ	TO5	A
2	2N699		50M§△	4.0m	§J	120	80 §	5.0		2.0uØ	5.0	1.0mØ	35 △	500nØb	30 Ø	2.5 Ø	20pØ	△	TO5	AØ
3	2N1644		50M§△	13m	§J	60	40 §	5.0		100u	10Ø	50mØ	40 †△				35pØ	△	TO5	AØ
4	2N2489A		60M§△			60	60			10nØ		10mØ	100 †				6.0pØ	PL	TO18	
5	BT929		60M§△		§J	45	45	5.0		10n	5.0Ø	500uØ	60 †△				8.0pØ		X108	L
6	BT930		60M§△		§J	45	45	5.0		10n	5.0Ø	500uØ	150 †△				8.0pØ		X108	L
7#	RT3100		3.0G§△	6.6m	§J	40	20 *	3.5	40m	1.0uØ	10Ø	25m	30 †△				1.2p$Ø		TO46	A
8	2N1248	30m		240u	§S	6.0	6.0	1.0	5.0m	10nØ	3.0Ø	20uØ	15 †△						TO5	A
9	2N1249	30m		240m	§S	6.0	6.0	1.0	5.0m	10nØ	3.0	30uØ	20 †△						TO5	A
10	2N1247	30m	5.0M	1.0m	§A	6.0	6.0	2.0		5.0n	3.0Ø	5.0mØ	15 †△				12p		TO5	A
11#	BFT24	30m§	2.3G§	2.0m	§J	8.0	5.0	2.0	2.5m	50nØ	1.0Ø	10uØ	30 †#				400ft	PE†	X124	C
12#	BFT25	30m§	2.3G§	2.0m	§J	8.0	5.0	2.0	2.5m	50nØ	1.0Ø	10uØ	30 †#				450ftØ	PE†	u56	A
13#	BFY22	50m*	20M§	625u	♦J	5.0	5.0	3.0	50m	15nØ	.5Ø	200uØ	30 △					PEØ	u22	
14#	BFY23	50m*	20M§	625u	♦J	5.0	5.0	3.0	50m	15nØ	.5Ø	200uØ	70 △					PEØ	u22	
15#	BFY24	50m*	20M§	625u	♦J	5.0	5.0	3.0	50m	15nØ	.5Ø	200uØ	100 △					PEØ	u22	
16#	BFY29	50m*	20M§	625u	♦J	45	30	5.0	50m	15nØ	.5Ø	200uØ	30 △						u21	
17#	BCW98A†	50m*	120M§△	625u	♦J	45	45	7.0	100m	20n§	5.0	2.0m	200	18u	2.7k	1.5	6.0p$Ø	Ø	u131a	B
18#	BCW98B†	50m*	120M§△	625u	♦J	45	45	7.0	100m	20n§	5.0	2.0m	260	24u	3.6k	2.0	6.0p$Ø	Ø	u131a	B
19#	BCW98C†	50m*	120M§△	625u	♦J	45	45	7.0	100m	20n§	5.0	2.0m	330	30u	4.5k	2.0	6.0p$Ø	Ø	u131a	B
20#	BCW98D†	50m*	120M§△	625u	♦J	45	45	7.0	100m	20n§	5.0	2.0m	520	50u	7.5k	3.0	6.0p$Ø	Ø	u131a	B
21	A141	50m*	150M§	625u	♦J	20	20	4.0	50m	100n	.5Ø	200uØ	130	15u	20k	15	4.0p$	PEØ	u45a	B
22	A142	50m*	150M§	625u	♦J	20	20	4.0	50m	100n	.5Ø	200uØ	220	20u	30k	25	4.0p$	PEØ	u45a	B
23	A143	50m*	150M§	625u	♦J	20	20	4.0	50m	100n	.5Ø	200uØ	380	35u	45k	40	4.0p$	PEØ	u45a	B
24#	BC146	50m*	150M§	625u	♦J	20	20	4.0	50m		.5Ø	200uØ	220	20u	30k	25	4.0p$	PEØ	u45	B
25	2SC656	50m	550M§		♦J	10		2.0	5.0m	1.0u	10Ø	5.0mØ	130				1.5p	PE	u38	
26#	BFS13E	60m		1.7m	♦J	40	40	6.0		50n	5.0Ø	1.0mØ	100 △				7pØ	PL		D
27#	BFS13F	60m		1.7m	♦J	40	40	6.0		50n	5.0Ø	1.0mØ	100 △				7pØ	PL		E
28#	BFS13G	60m		1.7m	♦J	40	40	6.0		50n	5.0Ø	1.0mØ	100 △				7pØ	PL		F
29#	BFS15E	60m		1.7m	♦J	40	30	5.0		50n	10Ø	10mØ	55 △				4pØ	PE		D
30#	BFS15F	60m		1.7m	♦J	40	30	5.0		50n	10Ø	10mØ	55 △				4pØ	PE		E
31#	BFS15G	60m		1.7m	♦J	40	30	5.0		50n	10Ø	10mØ	55 △				4pØ	PE		F
32#	BFS27E	60m		1.7m	♦J	20	20	5.0		.15u	1.0Ø	10mØ	50 △				4pØ	PE		D
33#	BFS27F	60m		1.7m	♦J	20	20	5.0		.15u	1.0Ø	10mØ	50 △				4pØ	PE		F
34#	BFS27G	60m		1.7m	♦J	20	20	5.0		.15u	1.0Ø	10mØ	50 △				4pØ	PE		G
35#	2SC250	60m	170M§		§J	20		2.0	25m	2.0uØ	6.0Ø	2.0m	45				2.0p	PL	TO44	
36#	BFY30	62m	20M§	625u	♦J	45	30	5.0	50m	15nØ	.5Ø	200uØ	110					PE	u21	
37	2N1267	65m§		769u	§S	20		2.0	100m	.70u	10Ø	2.0mØ	11				1.5p	D	TO9	AØ
38#	BFY48	75m*	50M§	1.0m	♦J	30	20	5.0	50m	15nØ	.5Ø	250uØ	50 △					PLØ		
39#	BFY49	75m*	50M§	1.0m	♦J	45	30	5.0	50m	15nØ	.5Ø	250uØ	50 △					PLØ		
40	2SC655	75m	80.M§		♦J	10		2.0	10m	1.0u	5.0Ø	2.0mØ	250	35u	3.5k	2.5	4.5p	PE	u38	
41	2N1268	80m§		769u	§S	20		2.0	100m	.70u	10Ø	2.0mØ	20				1.5p	D	TO9	AØ
42	2SC186	85m	250M§	909u	♦J	20	15 §	2.0	25m	2.0uØ	6.0Ø	2.5m	40				4.0p	PL	TO1	
43	2SC187	85m	250M§	909u	♦J	20	15 §	2.0	25m	2.0uØ	6.0Ø	2.5m	50				4.0p	PL	TO1	
44	D26C1	90m		1.2m	#J	25	25	5.0		25nØ	5.0Ø	10mØ	30 †△#				8.0p$Ø	PE△	u40b	D
45	D26C2	90m		1.2m	#J	25	25	5.0		25nØ	5.0Ø	10mØ	60 †△#				8.0p$Ø	PE△	u40b	D
46	D26C3	90m		1.2m	#J	25	25	5.0		25nØ	5.0Ø	10mØ	140 †△#				8.0p$Ø	PE△	u40b	D
47	D26C4	90m		1.2m	#J	25	25	5.0		25nØ	5.0Ø	10mØ	250 †△#				8.0p$Ø	PE△	u40b	D
48	D26C5	90m		1.2m	#J	25	25	5.0		25nØ	5.0Ø	10mØ	400 †△#				8.0p$Ø	PE△	u40b	D
49	D26E2	90m		1.2m	#J	18	18	5.0		25n	2.5Ø	100uØ	40 †△				4.0pØ	PEØ	u40	
50	D26E3	90m		1.2m	#J	18	18	5.0		25n	2.5Ø	100uØ	70 †△				4.0pØ	PEØ	u40	
51	D26E4	90m		1.2m	#J	18	18	5.0		25n	2.5Ø	100uØ	115 †△				4.0pØ	PEØ	u40	
52	D26E5	90m		1.2m	#J	18	18	5.0		25n	2.5Ø	100uØ	180 †△				4.0pØ	PEØ	u40	
53	D26E6	90m		1.2m	#J	18	18	5.0		25n	2.5Ø	100uØ	40 †△				4.0pØ	PEØ	u40	
54	D26E7	90m		1.2m	♦S	18	18	5.0	100m	25n	2.5Ø	100uØ	280 †△				4.0pØ	PE	u40	D
55	D26G1	90m		1.2m	#J	30	15	3.0		.01u	1.0Ø	3.0mØ	20 †△				1.7p	PEØ	u40	
56	D26E1	90m	80M§△	1.2m	#J	45	45	5.0		10n	5.0Ø	10mØ	100 †△	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PEØ	u40	
57#	DC5402	90mØ	5.5G§	1.5mØ	§J	15	15	3.0	6.0m	300n	5.0Ø	2.0m	70 †				600f	PLØ	u104a	R
58#	DC5403	90mØ	5.5G§	1.5mØ	§J	15	15	3.0	6.0m	300n	5.0Ø	2.0m	70 †				600f	PLØ	u104a	R
59#	2SC648H	100m				30	25	6.0	30m	100u	6.0Ø	10mØ	160 †△					Ø	TO1	
60#	DT1602	100m				75	75	1.0	20m			3.0mØ	5.0						TO5	
61#	DT1603	100m				150	150	1.0	20m			3.0mØ	5.0						TO5	
62#	DT1612	100m				75	75	1.0	20m			3.0mØ	20						TO5	
63#	DT1613	100m				150	150	1.0	20m			3.0mØ	20						TO5	
64#	2S701	100m#	8.0M	2.0m	#A	25	25	1.0	20m	1.0u	6.0Ø	1.0m	30	6.0u	1.4k	1.5		G	TO5	A
65#	2S702	100m#	12.M	2.0m	#A	25	25	1.0	20m	1.0u	6.0Ø	1.0m	50	9.0u	2.5k	2.5		G	TO5	A
66#	2S703	100m#	16.M	2.0m	#A	25	25	1.0	20m	1.0u	6.0Ø	1.0m	120	13u	6.0k	4.0		G	TO5	A
67#	2SC780G	100m	50M§△	1.0m	♦J	80	80 #	5.0	20m	2.0u#	2.0Ø	2.0mØ	40 †△*				2.0p	PL†	R67a	B
68	TK82	100m	50M§		§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	250	90nb	26		5.0p	PEØ	u120	P
69#	MT1075	100m	60M§△	800u	§J	75	75 *	4.0		500n	10Ø	10mØ	20 †△				4.0pØ	PL†	u81	B
70#	MT1100	100m	60M§△	800u	§J	100	100 *	4.0		500nØ	10Ø	10mØ	20 †△				4.0pØ	PL†	u81	B
71#	MT4101	100m	60M§△	800u	§J	60	45 *	5.0		10nØ	5.0Ø	1.0mØ	70 †△	1.0uØb	32 Ø	6.0 Ø	3.5pØ	PLØ	u81	B
72#	MT4102	100m	60M§△	800u	§J	60	45 *	5.0		10nØ	5.0Ø	1.0mØ	200 †△	1.0uØb	32 Ø	6.0 Ø	3.5pØ	PLØ	u81	B
73#	MT4104	100m	60M§	800u	§J	25	25 *	4.0		1.0uØ	5.0Ø	1.0mØ	180	12u	15k	20	2.0p	PEØ	u81	B
74#	MT4103	100m	90M§	800u	§J	50	40 *	5.0		10nØ	5.0Ø	1.0mØ	200 †	20u	10k		3.5pØ	PLØ	u81	B
75	3N71Ø	100m	100M§△	667u	§A	15	8.0	8.0	20m	.01uØ	2.0Ø	2.0mØ	40 †△					△	TO72	GCØ
76	3N72Ø	100m	100M§△	667u	§A	15	8.0	8.0	20m	.01uØ	2.0Ø	2.0mØ	40 †△					△	TO72	GCØ
77	3N73Ø	100m	100M§△	667u	§A	15	8.0	8.0	20m	.01uØ	2.0Ø	2.0mØ	40 †△					△	TO72	GCØ
78#	2SC926	100m	160M§	1.1m	§J	115	115	3.5	100m	.20u	3.0Ø	1.0mØ	50 †				4.5pØ	D	u37	
79#	2SC693	100m	180M§		♦J	40		5.0	50m	1.0u	6.0Ø	1.0mØ	240 †				3.0p	PL	R145	D
80#	2SC694	100m	180M§		♦J	40		5.0	50m	1.0u	6.0Ø	1.0mØ	240 †				3.0p	PL	R145	D
81#	2SC858	100m	180M§		♦J	20		5.0	50m	1.0u	6.0Ø	1.0mØ	240 †				3.0p	PL	R145	D
82#	2SC859	100m	180M§		♦J	20		5.0	50m	1.0u	6.0Ø	1.0mØ	240 †				3.0p	PL	R145	D
83#	2SC155	100m	200M§	1.0m	♦J	20		2.0	25m	2.0uØ	6.0Ø	2.0m	35				2.5p	PL	u31	
84#	2SC156	100m	200M§	1.0m	♦J	20		2.0	25m	2.0uØ	6.0Ø	2.0m	50				2.5p	PL	u31	
85#	MT6001	100m	200M§△	8.0m	§J	40	30 Ø	5.0	500m	50n§	1.0Ø	50mØ	30 †△#				10pØ	PE△		
86#	MT6002	100m	200M§△	8.0m	§J	40	30 Ø	5.0	500m	50n§	1.0Ø	50mØ	60 †△#				10pØ	PE△		
87#	2SC1342	100m	250M§		♦J	30	20	4.0	30m	500nØ	6.0Ø	1.0mØ	35 △†				1.1p	PE†		
88#	2SC752	100m	300M§	1.0m	♦J	30	12	4.0	100m	500nØ	10Ø	10m	80				4.0p	PE	R67a	B
89#	2SC785	100m	400M§	1.0m	♦J	40	30	4.0	20m	.50uØ	6.0Ø	1.0mØ	25 †△*				.65pt	PE	R67a	B
90#	2SC763	100m	470M§	1.0m	♦J	25	12	3.0	20m	500nØ	6.0Ø	1.0mØ	70 †				1.5p	PE†	TO92	D
91#	2SC784	100m	500M§	1.0m	♦J	40	30	4.0	20m	.50uØ	6.0Ø	1.0mØ	25 †△*				.65pt	PEØ	R67a	B
92#	2SC800	100m	600M§△		§J	30	25	4.0	10m	.10u	6.0Ø	2.0mØ	80 †				.50p	PE	u23	C
93#	MT3001	100m	600M§△	800u	§J	30	12 *	3.0		200nØ	10Ø	8.0mØ	50 †				1.4p	PEØ	u81	B
94#	2SC535	100m	700M§			30	20	4.0	20m	.50u	6.0Ø	1.0mØ	35 †△				.90p	PEØ		
95#	MT9001†	100m	800M§	800u	§J	40	40 Ø	4.5	200m	50nØ	1.0Ø	10mØ	40 †△				4.0pØ	PE†	u81	B
96#	MT9002*	100m	800M§	800u	§J	30	30 Ø	4.5	200m	50nØ	1.0Ø	10mØ	30 †△				4.0pØ	PE†	u81	B
97#	MT9003†	100m	800M§	800u	§J	18	12 Ø	4.0		500nØ	5.0Ø	10mØ	25 †△				4.0pØ	PE†	u81	B
98▼#	2SC1321	100m	900M§	1.0m	♦J	30	25	4.0	10m	100nØ	6.0Ø	2.0mØ	40 †△				1.8pØ	E	u56b	
99#	MT3002	100m	900M§△	800u	§J	30	12 *	3.0		200nØ	10Ø	8.0mØ	50 †				1.3p	PEØ	u81	B
100#	MT3011	100m	900M§	800u	§J	20	12 *	2.0		500nØ	10Ø	8.0mØ	50 †				1.4p	PLØ	u81	B
101#	2SC272	100m	1.2G§		§J	25	12	3.0	20m	1.0uØ	6.0Ø	2.0m	70				1pØ	PE	u23	C
102	2N1270	110m§		769u	§S	20		2.0	100m	.70u	10Ø	2.0mØ	11				1.5p	D	TO9	AØ
103#	BFS18	110m	200M§	1.1m	♦J	30	20	5.0	30m	100nØ	10Ø	1.0mØ	35 †△				1.0p$	PE†	u56	A
104#	BFS18R	110m	200M§	2.0m	♦J	30	20	5.0	30m	100nØ	10Ø	1.0mØ	35 †△				850ft	PEØ	u56	C
105#	2SC170	110m	250M		§J	25	20 §	3.0	50m	.50uØ	6.0Ø	10m	60				5.0p	PL	TO18	
106#	BFS19	110m	260M§	1.1m	♦J	30	20	5.0	30m	100nØ	10Ø	1.0mØ	65 †△				1.0p$	PE†	u56	A
107#	BFS19R	110m	260M§	2.0m	♦J	30	20	5.0	30m	100nØ	10Ø	1.0mØ	65 †△				850ft	PEØ	u56	C
108#	BCW31	110m	300M§	1.1m	♦J	30	20	5.0	50m	100nØ	5.0Ø	10uØ	90 †				4.0p$Ø	PE†	u56	A
109#	BCW32	110m	300M§	1.1m	♦J	30	20	5.0	50m	100nØ	5.0Ø	10uØ	150 †				4.0p$Ø	PE†	u56	A
110#	BCW33	110m	300M§	1.1m	♦J	30	20	5.0	50m	100nØ	5.0Ø	10uØ	270 †				4.0p$Ø	PE†	u56	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1#	BFS20	110m	450M§	1.1m	♦J	30	20	4.0	25m	100nØ	10Ø	7.0mØ	85 †				800f$	PE†	u56	A	
2#	BSV52†	110m	500M§	1.1m	♦J	20	12	5.0	50m	100nØ	1.0Ø	50mØ	25 †△				4.0p$☑	PE†	u56	A	
3#	BFS17R	110m	1.0G§	1.1m	♦J	30	15	2.5	25m	10nØ	1.0Ø	2.0mØ	20 †△				1.5p$☑	PE†	u56	C	
4#	2SC29	115m	100M	909u	§J	40			25m	1.0uØ	10Ø	10m	30				4.0p	ME	TO5		
5	IT2483	120m		685u	§S	60	60	6.0		10nØ	5.0Ø	1.0mØ	230 †				3.5p	DPEØ	u92	L	
6	IT2484	120m		685u	§S	60	60	6.0		10nØ	5.0Ø	1.0mØ	400 †				3.5p	DPEØ	u92	L	
7	IT929	120m	30M§△	685u	§S	45	45	5.0	30m	10nØ	5.0Ø	10uØ	40 †△				8.0pØ	DPLØ	u92	L	
8	IT930	120m	30M§△	685u	§J	45	45	5.0	30m	10nØ	5.0Ø	10uØ	100 †△				8.0pØ	DPLØ	u92	L	
9#	2SC929	120m	300M§		♦J	15	10	5.0	30m	1.0u	6.0Ø	1.0mØ	100 †				1.6p	PE	R145	D	
10#	2SC930	120m	300M§		♦J	15	10	5.0	30m	1.0u	6.0Ø	1.0mØ	80 †				1.6p	PE	R145	D	
11#	2SC772†	120m	350M§		♦J	15		5.0	30m	1.0u	6.0Ø	1.0mØ	45 †				1.5p	PE	R145	D	
12#	BF264	120m	400M§△	1.7m	♦J	30	20	3.0	20m								380nt	PLØ	X87		
13#	BF263	120m	525M§△	1.7m	♦J	30	20	3.0	20m									PLØ	X87		
14#	2SC668	120m	550M§		♦J	15		3.0	30m	1.0u	6.0Ø	1.0mØ	60 †				1.1p	PL	R145	D	
15#	BF363	120m#	600M§△	1.7m	♦J	30	20	3.0	20m								500f	PLØ	X87	A	
16#	BF262	120m	650M§	1.7m	♦J	30	20	3.0	20m									PLØ	X87		
17#	2SC674	120m	750M§		♦J	15		3.0	30m	1.0u	6.0Ø	1.0mØ	80 †				1.1p	PL	R145	D	
18#	BF362	120m#	800M§	1.7m	♦J	30	20	3.0	20m								500f	PLØ	X87	A	
19	IT918	120m	900M§	685u	§J	30	15	3.0	30m	10nØ	1.0Ø	3.0mØ	50 †				1.7p☑	DPEØ	u92a	AA	
20	KD5000	125m		2.0mØ	§J	20	10	2.0	15m	50mØ	1.0Ø	3.0mØ	20 †△					Ø	X72a	V	
21	2N1586	125m	5.0M△	2.0m	#S	15	10	1.0	25m	1.0u	5.0Ø	1.0mØ	9.0 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
22	2N1587	125m	5.0M△	2.0m	#S	30	20	1.0	25m	1.0u	5.0Ø	1.0mØ	9.0 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
23	2N1588	125m	5.0M△	2.0m	#S	60	40	1.0	25m	1.0u	5.0Ø	1.0mØ	9.0 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
24	2N1589	125m	5.0M△	2.0m	#S	15	10	1.0	25m	1.0u	5.0Ø	1.0mØ	25 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
25	2N1590	125m	5.0M△	2.0m	#S	30	20	1.0	25m	1.0u	5.0Ø	1.0mØ	25 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
26	2N1591	125m	5.0M△	2.0m	#S	60	40	1.0	25m	1.0u	5.0Ø	1.0m	25 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
27	2N1592	125m	5.0M△	2.0m	#S	15	10	1.0	25m	1.0u	5.0Ø	1.0m	70 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
28	2N1593	125m	5.0M△	2.0m	#S	30	20	1.0	25m	1.0u	5.0Ø	1.0m	70 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
29	2N1594	125m	5.0M△	2.0m	#S	60	40	1.0	25m	1.0u	5.0Ø	1.0m	70 △	1.5u☑b	100 ☑	12 ☑	30p☑		OV9a	A	
30	2N264	125m	10M△	1.0m	§S	45	30	1.0	20m	1.0uØ	5.0	10mØ	20 †△	1.0u☑b	80 ☑	2.0 ☑	3.0p☑		OV3	A	
31	JAN2N337†	125m	10M△	1.0m	§A	45	45	1.0		500nØ	20	1.0m	20 △	1.0u☑b	80 ☑	20 ☑	3.0p		TO5	A	
32	2N337†	125m	20M	1.0m	§J	45		1.0	20m	1.0uØ	5.0Ø	10mØ	55 †☑	200nb	50	2.0	1.2p	GD	TO5	A	
33	JAN2N338†	125m	20M△	1.0m	§A	45	45	1.0		500nØ	20	1.0m	40 △	1.0u☑b	80 ☑	20 ☑	3.0p		TO5	A	
34	2N1104	125m	20M△	1.0m	§S	45	35	1.0	20m	1.0uØ	20	1.0m	40 △	1.0u☑b	80 ☑	20 ☑	3.0pØ		TO5	A	
35	TI493	125m	20M	1.2m	♦J	40	20	1.0	20m	2.0uØ	5.0Ø	10mØ	15 †△	200n	30	2.0	2.0p	G	TO5	A	
36	TI494	125m	20M	1.2m	♦J	40	20	1.0	20m	2.0uØ	5.0Ø	10mØ	40 †△	200n	30	2.0	2.0p	G	TO5	A	
37	TI495	125m	20M	1.2m	♦J	40	20	1.0	20m	2.0uØ	5.0Ø	10mØ	120 †△	200n	30	2.0	2.0p	G	TO5	A	
38	2N338†	125m	30M	1.0m	§J	45		1.0	20m	1.0uØ	5.0Ø	10mØ	80 †	200nb	50	3.0	1.2p	GD	TO5	A	
39	JAN3N35	125m	70M§△	714u	§S	30		1.0		200nØ	20Ø	1.3m	10 △					$	TO12	AC	
40	3N34	125m	100M	1.0m	§J	30	30	1.0	20m	.40uØ	20Ø	1.3m	25				1.5p	GD$	TO12	GA	
41#	BSW69	125m	130M§	1.6m	♦J	150			50m	100nØ		4.0mØ	30 †△					△	MM13	E	
42	3N35	125m	150M	1.0m	§J	30	30	1.0	20m	.40uØ	20Ø	1.3m	25				1.5p	GD$	TO12	GA	
43#	BFX45†	125m#	175M§△	1.7m	♦J	30	20	5.0	100m	.07u	0.0	3.0m	45 †△				3p$	PEØ	MM13	F	
44#	BSX68†	125m*	175M§△	1.7m	♦J	30	15	5.0	100m	.07u	0.0	10mØ	30 †△				3p$	PE	MM13	F	
45#	BSX69†	125m*	175M§△	1.7m	♦J	30	20	5.0	100m	.07u	0.0	10mØ	60 †△				3p$	PE	MM13	F	
46#	2SC715†	125m	200M§		♦J	40		5.0	100m	1.0u	6.0Ø	1.0mØ	80 †				3.0p	PE	R145	D	
47#	2SC716†	125m	200M§		♦J	20		5.0	100m	1.0u	6.0Ø	1.0mØ	80 †				3.0p	PE	R145	D	
48#	BSW58†	125m	500M§	1.6m	§J	40	15	5.0	500m#	400nØ	1.0Ø	10mØ	40 △†				4.0p$☑	PE	MM13	F	
49#	BSW59†	125m	600M§	1.6m	§J	30	12	5.0	500m#	400nØ	1.0Ø	10mØ	60 △†				4.0p$☑	PE	MM13	F	
50	K5201C	125m	1.8G§△	1.0m	§J	25	12	2.5		.05uØ	1.0Ø	3.0mØ	20 †△				1p☑	E†Ø	u35		
51	KD5201	125m	1.8G§△	714u	§J	25	12	2.5		.05uØ	1.0Ø	3.0mØ	20 †△				1p☑	PEØ	X72	N	
52	KD5204	125m	1.8G§△	714u	§J	25	12	2.5		.05uØ	1.0Ø	3.0mØ	20 †△				1p☑	PEØ	X72		
53	2N1271	130m§		769u	§S	20		2.0	100m	.70u	10Ø	2.0mØ	20				1.5p	D	TO9	AØ	
54	2SC562	130m		1.0m	§J	40	30	4.0	25m		10	4.0m	40 †△				.22p†	PL	TO72		
55	A467	130m	350M§	1.0m	§J	40	30	4.0	25m	100nØ	10Ø	4.0m	60 †				1.1p	PLØ	TO72	J	
56	BF167	130m	350M§	1.0m	§J	40	30	4.0	25m		10Ø	4.0m	57					PL	TO72		
57#	SF167	130m	400M§	1.0m	§A	40	30	4.0	25m	50nØ	10Ø	4.0mØ	26 †△				350f†	DPL	u29	B	
58#	SF196	130m	400M§	1.0m	§A	40	30	4.0	25m	50nØ	10Ø	4.0mØ	26 †△				200f†	DPL	u29	C	
59#	BFX62	130m*	675M§	1.0m	§J	30	20	4.0	12m	50nØ	10Ø	2.0mØ	40 †				280f†	PØ	TO72	J	
60#	BFW92	130m§	1.6G§	2.5m	♦J	25	15	2.5	25m	50nØ	1.0Ø	2.0mØ	20 †△				700f$	PE†	u105	C	
61	2SC645	140m	200M§		§J	30		5.0	30m	1.0uØ	10Ø	1.0mØ	100				1.5p	PE	R128		
62#	BF480	140m#	1.5G§	2.0m	♦J	20	15	2.0	20m		10	10m	10 †△					PLØ	u105	A	
63	2SC563	145m		1.2m	§J	40	25	4.0	25m		10	7.0m	.38 †△				.23p†	PE	TO72		
64#	2SC477	145m*	190M§	1.1m	§J	32	32	4.0	30m		10	10m	80					PLØ	TO18		
65	2N4435	145m	220M	1.1m		30	20	5.0	30m		10Ø	1.0mØ	67 †					PE	TO72	A	
66#	BF185	145m	220M§	1.1m	§J	30	20	5.0	30m		10Ø	1.0mØ	67 †				650f†	PE	TO72	J	
67#	BF115☑	145m	230M§	1.1m	§J	50	30	5.0	30m		10Ø	1.0mØ	165 †☑				650f†	PEØ	TO72	J	
68	2N4434	145m	300M	1.1m		30	20	5.0	30m		10Ø	1.0mØ	115 †					PE	TO72	A	
69#	BF184	145m	300M§	1.0m	§J	30	20	5.0	30m		10Ø	1.0mØ	115 †				650f†	PE	TO72	J	
70♦	2N1005	150m		1.0m	§S	15	15	1.0	25m	.10uØ	5.0Ø	10mØ	10 †△						TO5	A	
71♦	2N1006	150m		1.0m	§S	15	15	1.0	25m	.10uØ	5.0Ø	10mØ	25 †△						TO5	A	
72	2N1269	150m§		769u	§S	20		2.0	100m	.70u	10Ø	2.0mØ	50				1.5p	D	TO9	AØ	
73	2N1417	150m		1.2m	§S	15	15	2.0	50m	1.0u	6.0	1.0m	30 △		90 ☑b				TO5	A	
74	2N1418	150m		1.2m	§S	30	30	2.0	50m	10u	6.0	1.0m	30 △		90 ☑b				TO5	A	
75	2N2349	150m		1.2m	§J	40	24	1.5	25m	1.0uØ	5.0Ø	10mØ	120 †△	1.2u☑b	90 ☑	20 ☑	4.0p☑	G	TO5	A	
76	2N2610	150m		1.2m	§S	45	40	1.0	25m	2.0uØ	5.0Ø	1.0mØ	9.0 △	1.2u☑b	80 ☑	5.0 ☑	20p☑		OV9	A	
77	2N3247	150m		1.2m	§A	60	45	10	50m	1.0nØ	6.0	1.0mØ	200 △	1.0u☑b	32 ☑	6.0 ☑	5.0p☑	Ø	X16	D	
78	2N5650	150m		1.2m	§S	20	15	3.0	30m	50nØ	10Ø	3.0mØ	30 †△				700f$☑	Ø	TO72	G	
79	2N5651	150m		1.2m	§S	20	15	3.0	30m	50nØ	10Ø	3.0mØ	30 †△				700f$☑	Ø	TO72	G	
80	2N5652	150m		1.2m	§S	20	15	3.0	30m	50nØ	10Ø	3.0mØ	30 †△				700f$☑	Ø	TO72	G	
81#	2SC1327	150m		1.5m	J♦	35	35	5.0	100m#	100n	5.0	2.0	1.0k☑†					PE	TO92	B	
82#	2SC1328	150m		1.5m	J♦	55	55	5.0	100m#	100n	5.0	2.0	1.0k☑†					PE	TO92	B	
83#	BFV16	150m		1.2m	§J	100		3.0			10Ø	30mØ	20 △					PL	u34b	P	
84#	BFV51†	150m		1.2m	§J	60	30	5.0	800m	.50uØ	10Ø	150mØ	50 †△				8p☑	PE	u34b	P	
85#	BFV53†	150m		1.2m	§J	60	30	5.0	800m	.50uØ	10Ø	150mØ	50 †△				8p☑	PE	u34b	P	
86#	BFV60	150m		1.0m	§J	30	30	5.0	30m	.05uØ	5.0Ø	.10mØ	100 △				8p☑	PEØ	u34b	P	
87#	BFV61	150m		1.0m	§J	30	30	5.0	30m	.05uØ	5.0Ø	.10mØ	100 △				8p☑	PEØ	u34b	P	
88#	BFV62	150m		1.2m	§J	60	50	6.0	50m	.05uØ	5.0Ø	.10mØ	100 △				6p☑	PEØ	u34b	P	
89#	PL1021	150m		1.0m	§S	40	15	4.5		.4uØ§	1.0Ø	10mØ	20 †△				4p☑	PE△	u50	E	
90#	PL1022	150m		1.0m	§S	40	15	4.5		.4uØ§	1.0Ø	10mØ	40 †△				4p☑	PE△	u50	E	
91#	PL1023	150m		1.0m	§S	40	15	4.5		.4uØ§	.35Ø	10mØ	40 †△				4p☑	PE△	u50	E	
92#	PL1024	150m		1.0m	§S	20	12	5.0		1.0u§	.35Ø	10mØ	20 †△				5p☑	PE△	u50	E	
93#	PL1025	150m		1.0m	§S	20	12	5.0		1.0u§	.35Ø	10mØ	40 †△				5p☑	PE△	u50	E	
94#	PL1026	150m		1.0m	§S	30	12	5.0		.4uØ§	.35Ø	10mØ	30 †△				4p☑	PE△	u50	E	
95#	PL1051	150m		1.0m	§S	60	30	5.0		10nØ	10Ø	1.0mØ	25 †△				8p☑	PE△	u50	E	
96#	PL1052	150m		1.0m	§S	75	40	6.0		10nØ	10Ø	1.0mØ	25 †△				8p☑	PE△	u50	E	
97#	PL1053	150m		1.0m	§S	60	30	5.0		10nØ	10Ø	1.0mØ	50 †△				8p☑	PE△	u50	E	
98#	PL1054	150m		1.0m	§S	75	40	6.0		10nØ	10Ø	1.0mØ	50 †△				8p☑	PE△	u50	E	
99#	PL1055	150m		1.0m	§S	60	30	5.0		10nØ	10Ø	1.0mØ	12 †△				8p☑	PE△	u50	E	
100#	PL1061	150m		1.0m	§S	45	45 *	5.0			5.0Ø	10uØ	40 †△				8p☑	PL	u50	E	
101#	PL1062	150m		1.0m	§S	45	45 *	5.0			5.0Ø	10uØ	100 †△				8p☑	PL	u50	E	
102#	PL1063	150m		1.0m	§S	60	60 *	6.0			5.0Ø	10uØ	100 †△				6p☑	PL	u50	E	
103#	PL1064	150m		1.0m	§S	25	25 *	5.0			5.0Ø	10uØ	180 †△				8p☑	PL	u50	E	
104#	PL1065	150m		1.0m	§S	60	60 *	6.0			5.0Ø	10uØ	40 †△				6p☑	PL	u50	E	
105#	PL1066	150m		1.0m	§S	25	25 *	5.0			5.0Ø	10uØ	40 †△				8p☑	PL	u50	E	
106#	PL1067	150m		1.0m	§S	25	25 *	5.0			5.0Ø	10uØ	100 †△				8p☑	PL	u50	E	
107#	PL1081	150m		1.0m	§S	60	40 §*	5.0			10Ø	150mØ	20 †△#					PL	u50	E	
108#	PL1082	150m		1.0m	§S	60	40 §*	5.0			10Ø	150mØ	40 †△#					PL	u50	E	
109#	PL1083	150m		1.0m	§S	75	50 §*	7.0			10Ø	150mØ	100 †△#					PL	u50	E	
110#	PL1084	150m		1.0m	§S	75	50 §*	7.0			10Ø	150mØ	40 †△#					PL	u50	E	

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1#	PL1085	150m		1.0m	§S	120	100 §*	7.0			10Ø	150mØ	40 †Δ#					PL	u50	E
2#	PL1111	150m		1.0m	§S	30	15	3.0		1nØ	1.0Ø	3.0mØ	20 †Δ				1.7pØ	PE	u50	E
3#	PL1112	150m		1.0m	§S	30	15	3.0		10nØ	1.0Ø	3.0mØ	20 †Δ				1.7pØ	PE	u50	E
4#	PL1113	150m		1.0m	§S	30	13	3.0		10nØ	10Ø	4.0mØ	20 †Δ				2.5pØ	PE	u50	E
5	JAN2N117	150m	1.0MΔ	1.2m	§S	30		1.0		1.0u	5.0	1.0m	9.0 Δ	1.5uØb	90 Ø	5.0 Ø	20 Ø		OV6	F
6	JAN2N118	150m	2.0MΔ	1.2m	§S	30		1.0		1.0u	5.0	1.0m	18 Δ	1.5uØb	90 Ø	10 Ø	20 Ø		OV6	F
7	JAN2N119	150m	2.0MΔ	1.2m	§S	30		1.0		1.0u	5.0	1.0m	37 Δ	1.5uØb	90 Ø	15 Ø	20pØ		OV6	F
8	JAN2N333	150m	2.5MΔ	1.0m	§S	45	45	1.0		500nØ	5.0	1.0m	44 Ø	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
9	JAN2N335	150m	2.5MΔ	1.0m	§S	45	45	1.0		500nØ	5.0	1.0m	90 Ø	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
10	JAN2N336	150m	2.5MΔ	1.0m	§S	45	45	1.0		500nØ	5.0	1.0m	270 Ø	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
11	2N3268	150m	2.5MΔ	1.0m	§S	45	45	1.0	25m	500nØ	5.0	1.0m	40 Δ	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
12	2N117	150m	4.0M	1.0m	§S	45		1.0	25m	2.0uØ	5.0	1.0m	15	400nb	42	1.2	7.0p	G	OV6	
13	2N160	150m	4.0M	1.0m	S	40		1.0	25m	10u	5.0	1.0m	15	400nb			7.0p	A	OV9	
14	2N160A	150m	4.0M	1.0m	S	40		5.0	25m	10u	5.0	1.0m	15	400nb			7.0p	A	OV9	
15	2N332	150m	4.0M		§J	45		1.0	25m	2.0uØ				400nb	42	1.2	7.0p	G	TO5	A
16#	2S001	150m	4.0MΔ	769u	§J	45		1.0	25m	30nØ	5.0	1.0m	14	400nb	42	12	7.0p	G	TO5	
17#	2S004	150m	4.0MΔ	769u	§J	45		1.0	25m	30nØ	5.0	1.0m	50	400nb	42	40	7.0p	G	TO5	
18	2N118	150m	5.0M	1.0m	§J	45		1.0	25m	2.0uØ	5.0	1.0m	29	400nb	42	2.5	7.0p	G	OV6	
19	2N161	150m	5.0M	1.0m	S	40		1.0	25m	10u	5.0	1.0m	30	400nb			7.0p	A	OV9	
20	2N161A	150m	5.0M	1.0m	S	40		5.0	25m	10u	5.0	1.0m	30	400nb			7.0p	A	OV9	
21	2N333	150m	5.0M		§J	45		1.0	25m	2.0uØ				400nb	42	2.5	7.0p	G	TO5	A
22	2N119	150m	6.0M	1.0m	§J	45		1.0	25m	2.0uØ	5.0	1.0m	63	400nb	42	4.0	7.0p	G	OV6	
23	2N163	150m	6.0M	1.0m	S	40		1.0	25m	10u	5.0	1.0m	78				7.0p	A	OV9	
24	2N163A	150m	6.0M	1.0m	S	40		5.0	25m	10u	5.0	1.0m	78				7.0p	A	OV9	
25	2N335	150m	6.0M		§J	45		1.0	25m	2.0uØ				400nb	42	4.0	7.0p	G	TO5	A
26	2N2529	150m	6.0M§Δ	1.0m	§S	45	40	2.0	25m	50nØ	5.0Ø	1.0mØ	12 Δ	1.0uØb	80 Ø	5.0 Ø	3.0pØ		TO18	A
27	2N120	150m	7.0M	1.0m	§J	45		1.0	25m	2.0uØ	5.0	1.0m	200	400nb	42	4.0	7.0p	G	OV6	
28	2N336	150m	7.0M		§J	45		1.0	25m	2.0uØ				400nb	42	4.0	7.0p	G	TO5	A
29	2N118A	150m	8.0MΔ	1.0m	§S	45		1.0	25m	2.0uØ	5.0	1.0m	18 Δ	1.2uØb	80 Ø	10 Ø	20pØ		OV6a	F
30	2N162	150m	8.0M		§J	40		1.0	25m	10u	5.0Ø	1.0mØ	28 Δ						TO22	F
31	2N162A	150m	8.0M		§J	40		5.0	25m	10u	5.0Ø	1.0mØ	28 Δ						TO22	F
32	2N334	150m	8.0MΔ		§J	45		1.0	25m	2.0uØ				400nb	42	4.0	7.0p	G	TO5	A
33	TI492	150m	8.0M	1.4m	♦J	40	20	1.0	25m	2.0uØ	5.0Ø	1.0m	30	500nb	55	3.7	10p	G	TO5	A
34	2N2530	150m	10M§Δ	1.0m	§S	45	40	2.0	25m	50nØ	5.0Ø	1.0mØ	18 Δ	1.0uØb	80 Ø	5.0 Ø	3.0pØ		TO18	A
35	2N2533	150m	10M§Δ	1.0m	§S	45	40	2.0	25m	50nØ	20Ø	1.0mØ	19 Δ	1.0uØb	80 Ø	7.5 Ø	3.0pØ		TO18	A
36#	2S003	150m	10MΔ	769u	§J	45		1.0	25m	30nØ	5.0	1.0m	25	400nb	42	20	7.0p	G	TO5	
37#	BCY87*	150m	10M§Δ	1.0m	§J	45	40	5.0	30m	5.0n†Ø	10	50nØ	100 †Δ				3.5p$	PLØ	L17u	
38#	BCY88*	150m	10M§Δ	1.0m	§J	45	40	5.0	30m	25n†Ø	10	.05mØ	100 †Δ				3.5p$	PL*Ø	L17u	
39#	BCY89*	150m	10M§Δ	1.0m	§J	45	40	5.0	30m	.01uØ	10	.05mØ	100 †Δ				3.5p$	PL*Ø	L17u	
40	2N1149	150m	12M	1.0m	§S	45		1.0	25m	2.0uØ	5.0	1.0m	13	400nb	42	1.2	7.0p	G	OV9	
41	2N2531	150m	12M§Δ	1.0m	§S	45	40	2.0	25m	50nØ	5.0Ø	1.0mØ	36 Δ	1.0uØb	80 Ø	5.0 Ø	3.0pØ		TO18	A
42	2N1150	150m	13M	1.0m	§S	45		1.0	25m	2.0uØ	5.0	1.0m	24	400nb	42	2.5	7.0p	G	OV9	
43	2N1151	150m	14M	1.0m	§J	45		1.0	25m	2.0uØ	5.0	1.0m	39	400nb	42	4.0	7.0p	GD	OV9	
44	2N1152	150m	15M	1.0m	§J	45		1.0	25m	2.0uØ	5.0	1.0m	49	400nb	42	4.0	7.0p	GD	OV9	
45	2N1153	150m	16M	1.0m	§J	45		1.0	25m	2.0uØ	5.0	1.0m	99	400nb	42	4.0	7.0p	GD	OV9	
46	2N2532	150m	16M§Δ	1.0m	§S	45	40	2.0	25m	50nØ	5.0Ø	1.0mØ	76 Δ	1.0uØb	80 Ø	5.0 Ø	3.0pØ		TO18	A
47	2N1205	150m	17M§Δ		§A	20	20	1.0		5.0u	10Ø	2.0m	10 Δ				5.0p		TO5	
48	2N263	150m	20M	1.2m	§S	45	30	1.0	20m	1.0uØ	20	1.0m	39 Δ	1.0uØb	80 Ø	20 Ø	3.0pØ		OV9a	A
49	2N2534	150m	20M§Δ	1.0m	§S	45	40	2.0	25m	50nØ	20Ø	1.0mØ	39 Δ	1.0uØb	80 Ø	7.5 Ø	3.0pØ		TO18	A
50#	BFV37Ø	150m	20M§Δ	1.2m	§S	30	30	15	100m	.01uØ	5.0Ø	1.0mØ	50 Δ				12pØ	PE	u34b	P
51#	BFV38Ø	150m	20M§Δ	1.2m	§S	45	45	18	100m	.01uØ	5.0Ø	1.0mØ	50 Δ				12pØ	PE	u34b	P
52	2N1276	150m	30M	1.2m	§J	40	30	1.0	25m	1.0u	5.0	1.0m	14	370nb	44	2.4	2.0p	GD	TO5	A
53	2N1277	150m	30M	1.2m	§J	40	30	1.0	25m	1.0u	5.0	1.0m	33	300nb	44	2.6	2.0p	GD	TO5	A
54	2N1278	150m	30M	1.2m	§J	40	30	1.0	25m	1.0u	5.0	1.0m	66	180nb	44	2.3	2.0p	GD	TO5	A
55	2N1279	150m	34M	1.2m	§J	40	30	1.0	25m	1.0u	5.0	1.0m	333	140nb	44	2.0	2.0p	GD	TO5	A
56#	BFV14	150m	50M§Δ	1.0m	§J	60	40	5.0	1	1.0uØ	10Ø	150mØ	40 †Δ				35pØ	DPL	u34b	P
57#	BFV17	150m	60M§Δ	1.0m	§J	80	60	5.0		1.0uØ	5.0Ø	5.0m	30 †Δ	65u	1.5kØ	1.1	10pØ	PE	u34b	P
58#	2SC780A/G	150m	100M§		♦J	150	150	2.0	30m	5.0uØ	2.0Ø	2.0mØ	50 †				7.0pØ	DPL	R67a	B
59▼#	2SC1312	150m	100M§	1.5m	♦J	35	35	5.0	100m	100nØ	6.0Ø	1.0mØ	600 †#					PEØ	TO92	
60▼#	2SC1313	150m	100M§	1.5m	♦J	50	50	5.0	100m	100n	6.0Ø	1.0mØ	600 †#					PEØ	TO92	
61	BSY11	150m$	100M§	1.0m	§J	45			50m		5.0	5.0mØ	55 Δ					ME	TO5	
62#	ZDT30Ø	150m	100M§	1.2m	§J	10		6.0	50m	10nØ								PE	TO72	GC
63#	ZDT31Ø	150m	100M§	1.2m	§J	10		6.0	50m	10nØ								PE	TO72	GC
64	2N1199†	150m	125M§	1.2m	§S	20	15	3.0	100m	700nØ	1.0Ø	20mØ	25				1.5p	DA	TO9	A
65	2N1472†	150m	140M§	1.2m	§S	25	25	3.0	100m	500nØ	5.0Ø	10mØ	35 †				1.0p	DA	TO9	A
66#	2SC644	150m	150M§	1.4m	♦J	25	25	5.0	50m	1.0uØ	5.0	1.0m	350	20u	40k	2.5	5.0p	PEØ	u55	B
67#	2SC920	150m	150M§Δ		§J	50	25	5.0	30m	100n	3.0Ø	500uØ	75 †				2.5pØ	PE	u23a	C
68▼#	2SC1653	150m	150M§	1.5m	♦J	150	130	5.0	50m	100nØ	3.0Ø	15mØ	50 †Δ					E	u56b	
69▼#	2SC1654	150m	150M§	1.5m	♦J	180	160	5.0	50m	100nØ	3.0Ø	15mØ	50 †Δ					E	u56b	
70#	BFV18	150m	150M§Δ	1.0m	§J	80	60	5.0		1.0uØ	5.0Ø	5.0m	60 †Δ	95u	1.8kØ	1.3	10pØ	PE	u34b	P
71#	BFV50†	150m	175M§Δ	1.2m	§J	50	25	5.0	800m	.50uØ	10Ø	150mØ	30 †Δ				12pØ	PE	u34b	P
72#	BFV52†	150m	175M§Δ	1.2m	§J	50	30	5.0	1	.50uØ	1.0Ø	150mØ	25 †Δ				12pØ	PE	u34b	P
73#	BFV55†	150m	175M§Δ	1.2m	§S	75	40	5.0	500m	.50uØ	1.0Ø	150mØ	25 †Δ				12pØ	PE	u34b	P
74▼#	2SC1623	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	60 †Δ				5.5pØ	E	u56b	
75#	2SC1537	150m	200M§	1.5m	♦J	50	40	5.0	30m	1.0uØ	3.0Ø	50uØ	1.2k†Ø				3.5p	PE	TO106	A
76#	2SC1539	150m	200M§	1.5m	♦J	25	20	5.0	30m	1.0uØ	3.0Ø	50uØ	1.2k†Ø				4.5p	PE	TO106	A
77▼#	2SC1622	150m	200M§	1.5m	♦J	30	25	5.0	30m	50mØ	3.0Ø	500uØ	200 †Δ					E	u56b	
78#	BFV10	150m	200M§Δ	1.0m	§J	50	30	5.0	800m	.05uØ	10Ø	10mØ	30 †Δ				12pØ	PE	u34b	P
79#	BFV11	150m	200M§Δ	1.0m	§J	50	30	5.0	800m	.05uØ	10Ø	10mØ	70 †Δ				12pØ	PE	u34b	P
80#	BFV40	150m	200M§Δ	1.0m	§J	25	18	5.0		.50uØ	1.0Ø	10mØ	20 †Δ				6pØ	PEΔ	u34b	P
81#	BFV49†	150m	200M§Δ	1.2m	§J	25	15	5.0	200m	.50uØ	1.0Ø	10mØ	30 †Δ					PE	u34b	P
82	BSX53†	150m	200M§Δ	1.3m	§A						1.0Ø	50mØ	50 Δ				5.0p	NPE	TO18	
83	BSX54†	150m	200M§Δ	1.3m	§A						1.0Ø	50mØ	50 Δ				5.0p	NPE	TO18	
84#	BSY95	150m	200M§Δ	1.0m	§J	20	15	2.0	100m	50nØ	.35Ø	10mØ	50 †Δ				8.0pØ	PE	TO18	AØ
85#	SF115A	150m	200M§	1.2m	§A	50	30	5.0	30m	50nØ	10Ø	1.0mØ	50 †Δ					DPE	u29	B
86#	SF115B	150m	200M§	1.2m	§A	50	30	5.0	30m	50nØ	10Ø	1.0mØ	75 †Δ					DPE	u29	B
87#	SF195	150m	200M§	1.2m	§A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	36 †Δ					DPE	u29	B
88#	SF195C	150m	200M§	1.2m	§A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	72 †Δ					DPE	u29	B
89#	SF195D	150m	200M§	1.2m	§A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	38 †Δ					DPE	u29	B
90#	SF295	150m	200M§	1.2m	§A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	36 †Δ					DPE	u29	C
91#	SF295C	150m	200M§	1.2m	§A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	72 †Δ					DPE	u29	C
92#	SF295D	150m	200M§	1.2m	§A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	38 †Δ					DPE	u29	C
93#	2SC33	150m	250M§		§J	45	20	3.0	50m	.10u	10Ø	5.0m	55				3.0p	PE	TO5	
94▼#	2SC1009	150m	250M§	1.5m	♦J	50	25	5.0	50m	100nØ	3.0Ø	500uØ	30 †Δ				2.5pØ	E	u56b	
95#	BCW60AA†	150m	250M§	1.4	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	4.5p$Ø	PEØ	u56a	A
96#	BCW60AB†	150m	250M§	1.4	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	4.5p$Ø	PEØ	u56a	A
97#	BCW60AC†	150m	250M§	1.4	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	330	30u	4.5k	2.0	4.5p$Ø	PEØ	u56a	A
98#	BCW60AD†	150m	250M§	1.4	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	4.5p$Ø	PEØ	u56a	A
99#	BCX70AG†	150m	250M§	1.4	§J		45	5.0	100m	20n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	4.5p$Ø	PEØ	u56a	A
100#	BCX70AH†	150m	250M§	1.4	§J		45	5.0	100m	20n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	4.5p$Ø	PEØ	u56a	A
101#	BCX70AJ†	150m	250M§	1.4	§J		45	5.0	100m	20n§	5.0Ø	2.0mØ	330	30u	4.5k	2.0	4.5p$Ø	PEØ	u56a	A
102#	BCX70AK†	150m	250M§	1.4	§J		45	5.0	100m	20n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	4.5p$Ø	PEØ	u56a	A
103#	BFV12	150m	250M§Δ	1.0m	§J	60	35	5.0	800m	.05uØ	10Ø	1.0mØ	40 †Δ				10pØ	PE	u34b	P
104#	BFV41	150m	250M§Δ	1.0m	§J	20	12	4.5	200m	1.0u§	.35Ø	10mØ	30 †Δ				5pØ	PEΔ	u34b	P
105#	BFV45	150m	250M§Δ	1.2m	§J	35	15	5.0		.08uØ	1.0Ø	10mØ	30 †Δ				5pØ	PEΔ	u34b	P
106#	BFV54†	150m	250M§Δ	1.2m	§J	60	30	5.0		.50u§	10Ø	150mØ	30 †#Δ				8pØ	PE	u34b	P
107#	SF115	150m	270M§	1.2m	§A	50	30	5.0	30m	50nØ	10Ø	1.0mØ	50 †Δ					DPE	u29	B
108#	SF115C	150m	270M§	1.2m	§A	50	30	5.0	30m	50nØ	10Ø	1.0mØ	100 †Δ					DPE	u29	B
109#	SF115D	150m	270M§	1.2m	§A	50	30	5.0	30m	50nØ	10Ø	1.0mØ	135 †Δ					DPE	u29	B
110#	SF115E	150m	270M§	1.2m	§A	50	30	5.0	30m	50nØ	10Ø	1.0mØ	180 †Δ					DPE	u29	B

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	C E A D E
1#	SF194	150m	270M§	1.2m	$A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	67 †Δ					DPE	u29	B
2#	SF194B	150m	270M§	1.2m	$A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	110 †Δ					DPE	u29	B
3#	SF294	150m	270M§	1.2m	$A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	67 †Δ					DPE	u29	C
4#	SF294B	150m	270M§	1.2m	$A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	110 †Δ					DPE	u29	C
5#	BSV65FA†	150m	280M§Δ		$J		15	5.0	150m		.35Ø	10mØ	40 †Δ				5.0pØ	PE	u56	
6#	BSV65FB†	150m	280M§Δ		$J		15	5.0	150m		.35Ø	10mØ	75 †Δ				5.0pØ	PE	u56	
7#	BCW71	150m	300M§	1.5m	♦J	50	45	5.0	50m	100nØ	5.0	10u	90				7.0p§	PE	u56	A
8#	BCW72	150m	300M§	1.5m	♦J	50	45	5.0	50m	100nØ	5.0	10u	150				7.0p§	PE	u56	A
9#	BFV43†	150m	300M§Δ	1.2m	§J	30	12	4.0	200m	.50u§	1.0Ø	30mØ	30 †Δ				5pØ	PE	u34b	P
10#	BFV44†	150m	300M§Δ	1.2m	§J	30	15	4.0	200m	.50u§	1.0Ø	30mØ	30 †Δ				5pØ	PE	u34b	P
11#	BFV46†	150m	300M§Δ	1.2m	§J	35	15	5.0		.08uØ	1.0Ø	100mØ	30 †Δ				5pØ	PE	u34b	P
12	TN3200	150m	300M§Δ	1.0m	§J	40	30	4.0		50nØ	10Ø	4.0mØ	3.0 Δ		44	18	200p§Ø	PL	TO72	J
13	2N3493	150m	400M§Δ	860u	§S	12	8.0	5.0	25m	5.0n#	0.5Ø	10u	25 †Δ				700fØ		R96d	G
14#	2SC269†	150m	400M§Δ	1.2m	§J	25	20 Ø	5.0	150m	1.0uØ	1.0Ø	10mØ	90 †				3.5p	PE	u23a	C
15#	2SC738	150m	400M§	1.5m	♦J	25	12	4.0	20m	1.0uØ	6.0Ø	1.0mØ	60 †#				1.5p	PE†	TO92	D
16▼#	2SC1621†	150m	400M§		♦J						.50Ø	1.0mØ	40 Δ				6.0pØ	N†	u56b	
17#	BF252	150m	400M§	1.0m	§J	40	40	4.0		100n§	10Ø	2.0mØ	30 †Δ					DPL	TO72	
18#	BFV42†	150m	400M§Δ	1.2m	§J	35	15	4.5	200m	.40uØ	1.0Ø	10mØ	30 †Δ				4pØ	PE	u34b	P
19#	BFV47	150m	400M§Δ	1.2m	§J	30	12	5.0	200m	.40u§	.35Ø	10mØ	30 †Δ				4pØ	PE	u34b	P
20#	PL4021†	150m	400M§Δ	1.0m	§S	40	15 *	4.5	200m	.40uØ	1.0Ø	10mØ	20 †Δ				4pØ	PE	u51	
21#	2SC605	150m	480M§		§J	30	30	4.0	20m	.20uØ	10Ø	2.0mØ	60 †				1pØ	PL	u23a	C
22#	2SC389	150m	500M§	1.2m	§J	20	15	3.0	20m	.10u	5.0Ø	4.0m	50				1pØ	PL	TO72	
23#	2SC657	150m	500M§		§S	18	18	3.0	30m	.20uØ	10Ø	4.0mØ	50 †				1.1p	D	u37	
24#	2SC927	150m	500M§		♦J	30	15	3.0	20m	1.0u	6.0Ø	1.0mØ	80 †				1.0p	PL	TO104	
25#	2SC928	150m	500M§		♦J	30	15	3.0	20m	1.0u	6.0Ø	1.0mØ	80 †				1.0p	PL	TO104	
26#	BF288	150m	500M§	1.0m	§J	40	40	4.0	20m	50n§	7.0Ø	1.0mØ	65 †Δ					DPE	TO72	
27#	BF344	150m	500M§	1.0m	§J	30	20	4.0	50m		10Ø	1.0mØ	90 †Δ					PE	TO18	C
28#	BF345	150m	500M§	1.0m	§J	30	20	4.0	50m		10Ø	1.0mØ	40 †Δ					PE	TO18	C
29#	BFS17	150m	500M	1.5m	♦J	20	12	5.0	50m	100nØ	1.0Ø	10mØ	120 †Ø				1.5p§Ø	PE†	u56	A
30#	BFV27†	150m	500M§Δ	1.2m	§J	15	6.0	4.0		.10uØ	1.0Ø	30mØ	15 †#Δ				3pØ	PE	u34b	P
31#	BFV28†	150m	500M§Δ	1.7m	§J	15	6.0	4.0	50m	10u§	.40Ø	1.0mØ	15 †#Δ				3pØ	PE	u34b	P
32#	BFV80	150m	500M§Δ	1.2m	§J	25	12	3.0	50m	.50uØ	1.0Ø	3.0mØ	20 †Δ				1.7p	PEØ	u34b	P
33#	PL4022†	150m	500M§Δ	1.0m	§S	40	15 *	4.5	200m	.40uØ	1.0Ø	10mØ	40 †Δ				4pØ	PE	u51	
34#	PL4023†	150m	500M§Δ	1.0m	§S	40	15	4.5	200m	.40u§	1.0Ø	100mØ	20 †Δ#				4pØ	PE	u51	
35#	SF310	150m	500M§	1.2m	$A	40	30	4.0	25m	60nØ	10Ø	4.0mØ	35 †Δ				130fØ	DPE	u29	A
36#	SF314	150m	500M§	1.2m	$A	40	30	4.0	25m	60nØ	10Ø	4.0mØ	35 †Δ					DPEØ	u29	A
37#	2SC606	150m	530M§		§J	30	30	4.0	20m	.20uØ	10Ø	2.0mØ	60 †				1pØ	PL	u23a	C
38#	2SC382	150m	550M§	1.4m	♦J	40			50m	500nØ	10Ø	4.0m	80				1.6pØ	PE	R67a	B
39#	2SC463H	150m	550M§			35	35	4.0	20m	100u	10Ø	2.0mØ	5.5				.6pØ	PEØ		
40#	BF200	150m	550M§	1.0m	§J	30	20	3.0	20m		10Ø	3.0mØ	16 Δ				.90p	PLØ	TO72	G
41#	BF303	150m	550M§	1.0m	§J	40	30	3.0	50m		6.0Ø	1.0mØ	140 †					PL	TO72	C
42#	BF304	150m	550M§	1.0m	§J	40	30	3.0	50m		6.0Ø	1.0mØ	30 †Δ					PL	TO72	C
43#	2SC287A	150m	600M§Δ		§J	35	15	4.0	20m	.20uØ	10Ø	5.0mØ	80 †				1pØ	PE	u23	C
44#	2SC382G	150m	600M§	1.5m	♦J	40		2.0	50m	.50uØ	10Ø	4.0mØ	30 †Δ				1.5p	PE†	R67a	B
45#	2SC382R	150m	600M§	1.5m	♦J	40		2.0	50m	.50uØ	10Ø	4.0mØ	30 †Δ				1.5p	PE†	R67a	B
46#	2SC762	150m	600M§	1.0m	§J	30	20	3.0	20m	100u#	10	2.0m	13 †Δ				280fØ	PLØ	TO72	G
47#	2SC997	150m	600M§		§J	40	30		25m	25nØ	10Ø	4.0mØ	70 †				1.5p	PL	TO72	G
48#	2SC1159	150m	600M§Δ		§J	35	35	4.0	20m	100nØ	10Ø	5.0mØ	40 †Δ				1.0pØ	PE	u23a	
49	A481	150m	600M§	1.0m	§J	30	20	3.0	20m								.28p	PLTØ	TO72	
50	BF181	150m	600M§	1.0m	§J	30	20	3.0	20m								.28pt	PLØ	TO72	
51#	BF251	150m	600M§	1.0m	§J	30	30	4.0		50n§	10Ø	4.0mØ	30 †Δ					DPL	TO72	
52#	BF270	150m	600M§	1.0m	§J	40	40	4.0	20m		10Ø	4.0mØ	50 †					PL	TO72	J
53#	BF302	150m	600M§	1.0m	§J	40	30	3.0	50m		6.0Ø	1.0mØ	35 †Δ					PL	TO72	C
54#	BFV59	150m	600M§Δ	1.3m	§S	25	13	3.0	50m	.05uØ	10Ø	4.0mØ	20 Δ				2.5p	PEØ	u34b	P
55#	BFW63	150m	600M§	1.0m	§J	40	30	4.0		.5uØ§	10Ø	4.0mØ	70 †#				.2pt	DPLØ	TO72	J
56#	PL4112	150m	600M§Δ	1.0m	§S	30	15	3.0	200m	10nØ	1.0Ø	3.0mØ	20 †Δ				2.0pØ	PEØ	u51	
57#	SF173	150m	600M§	1.2m	$A	40	25	4.0	25m	50nØ	10Ø	7.0mØ	38 †Δ				400fØ	DPE	u29	B
58#	SF197	150m	600M§	1.2m	$A	40	25	4.0	25m	50nØ	10Ø	7.0mØ	38 †Δ				300fØ	DPE	u29	C
59#	2SC707H	150m	650M§			20	20	2.0	20m	100u	10Ø	2.0mØ	50 †				.40p	PØ		
60#	2SC947	150m	650M§	1.0m	§J	25	20	3.0	20m	100u#	10	2.0m	20 †				330fØ	PL	TO72	G
61#	2SC1047	150m	650M§	1.5m	♦J	30	20	3.0	15m	10u	6.0	1.0m	40 †Δ				800fØ	PEØ	TO92	B
62	A482	150m	650M§	1.0m	§J	25	20	3.0	15m	50nØ	10	2.0m	16 †				1.1p	PEØ	TO72	G
63	A484	150m	650M§	1.0m	§J	30	20	3.0	20m		10	3.0m	30 †				.28pt	PLØ	TO72	G
64#	BF182	150m	650M§	1.0m	§J	25	20	3.0	15m								.33pt	PLØ	TO72	G
65#	BFW64	150m	650M§	1.0m	§J	40	30	4.0		.5uØ§	10Ø	4.0mØ	70 †#				.2pt	DPLØ	TO72	J
66#	2SC761	150m	675M§	1.0m	§J	30	20	3.0	20m	100u#	10	2.0m	13 †Δ				280fØ	PLØ	TO72	G
67	A480	150m	675M§	1.0m	§J	30	20	3.0	20m	100nØ	10	2.0m	45 †				280fØ	PLØ	TO72	G
68	BF180	150m	675M§	1.0m	§J	30	20	3.0	20m								.28pt	PLØ	TO72	
69#	BF260	150m	700M§	1.0m	§J	45	30	4.0	50m		6.0Ø	1.0mØ	70 †					PL	TO72	C
70#	BF261	150m	700M§	1.0m	§J	40	30	4.0	50m		6.0Ø	1.0mØ	70 †					PL	TO72	C
71#	BF273	150m	750M§	1.4m	♦J	40	35	4.0	50m		7.0Ø	10mØ	80 †				400fØ	PE	TO106	C
72#	BF274	150m	750M§	1.4m	♦J	40	35	4.0	50m		7.0Ø	10mØ	40 †				400fØ	PE	TO106	C
73#	2SC629	150m	800M§		$S	18	13	3.0	30m	.20uØ	3.0Ø	1.0mØ	30 †				1.3p	D	u37	
74#	2SC948	150m	800M§	1.0m	§J	25	20	3.0	20m	100u#	10	3.0m	24 †				330fØ	PL	TO72	G
75#	2SC1180	150m	800M§		§J	30	20	3.0	20m	1.0uØ	6.0Ø	1.0mØ	130 †					PL	TO72	
76	A483	150m	800M§	1.0m	§J	25	20	3.0	15m	100nØ	10	3.0m	23 †				330fØ	PE	TO72	G
77#	BF183	150m	800M§	1.0m	§J	25	20	3.0	15m								.33pt	PL	TO72	G
78#	BF287	150m	800M§	1.0m	§J	40	40	4.0	20m	50n§	10Ø	2.0mØ	40 †Δ					DPE	TO72	
79#	BFS11	150m	800M§	1.0m	§J	45	30	4.0	50m		6.0Ø	1.0mØ	40 †Δ					P	TO72	J
80#	2SC1117	150m	850M§		§J	20	20	3.0	20m	1.0uØ	10Ø	2.0mØ	150 †				350fØ	PE	TO72	G
81#	2SC1158	150m	850M§Δ		§J	35	35	4.0	20m	100nØ	10Ø	5.0mØ	40 †Δ				1.0pØ	PE	u23a	
82#	BFW41	150m	850M§	1.2m	§S	30	15	3.0	30m	1.0u	1.0Ø	3.0mØ	65				3.0pØ	PE	TO72	G
83#	2SC1547	150m	900M§	1.2m	§J	30	20	3.0	20m	100n	25	0.0	20 †Δ				800f	PL	TO72	G
84#	BF290	150m	900M§	1.0m	§J	40	40	4.0	20m	50n§	10Ø	3.0mØ	40 †Δ					DPE	TO72	
85#	2SC392	150m	1.0G§		§J	30	20	3.0	20m	500n	10Ø	2.0mØ	80 †				1.5pØ	PL	TO72	G
86#	2SC787	150m	1.0G§	1.2m	§J	25	20	3.0	20m	25nØ	10Ø	2.0mØ	25 †Δ				300fØ	PLØ	TO72	G
87	A486	150m§	1.0G§	3.0m	♦J	30	15	2.5	25m	10nØ	1.0Ø	2.0mØ	20 †Δ				600f	PEØ	X87	
88	K2857C	150m	1.0G§	1.5m	♦J	30	15	2.5	20m	.01uØ	1.0Ø	3.0mØ	50 †				2pØ	Ø	u35	
89	K2857P	150m	1.0G	1.5m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	100 †				1.5p		TO122	P
90	K3683C	150m	1.0G§	1.5m	♦J	30	15	2.5	20m	.05uØ	1.0Ø	3.0mØ	50 †				2pØ	Ø	u35	
91	K3683P	150m	1.0G	1.5m	§J	30	15	2.5		50nØ	1.0Ø	3.0mØ	100 †				1.7p		TO122	P
92	K3880C	150m	1.0G§	1.5m	♦J	30	15	2.5	20m	.01uØ	1.0Ø	3.0mØ	50 †				2pØ	Ø	u35	
93#	2SC288A	150m	1.1G§		§J	35	15	2.0	20m	1.0uØ	10	5.0m	80				1.0p	PE	u23	C
94	K3880P	150m	1.2G	1.5m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	100 †				1.5p		TO122	P
95#	BF308	150m	1.4G§		§	40	35	4.0	50m	500u	7.0Ø	1.0mØ	60 †					PE	TO72	J
96#	BF309	150m	1.4G§		§	40	35	4.0	50m	500u	7.0Ø	1.0mØ	105 †					PE	TO72	J
97	K5012	150m	1.4G	1.1m	§J	25	12	2.5		50nØ	1.0Ø	3.0mØ	100 †				800f	D	TO50	C
98	K5503C	150m	1.5G§Δ	1.2m	§J	20	12	2.0		.30uØ	6.0Ø	10mØ	15 Δ				1pØ	E†	u35	
99#	2SC988	150m	3.0G§	1.2m	§J	20	15	3.0	30m	.50uØ	10Ø	10mØ	30 †Δ				.7pØ	PE	TO72	G
100#	2SC989†	150m	3.0G§	1.2m	§J	20	12	3.0	50m	1.0uØ	1.0Ø	30mØ	30 †Δ				1.5pØ	PE	X79	CØ
101#	2SC988A	150m	3.5G§	840m	§J	20	15	3.0	30m	500nØ	10Ø	10mØ	30 †Δ				700fØ	PE	TO72	G
102#	2SC988B	150m	3.5G§	840m	§J	20	15	3.0	30m	500nØ	10Ø	10mØ	30 †Δ				700fØ	PE	TO72	G
103#	DC5410	150mØ	5.0G§	1.0mØ	§J	15	15	3.0	10m	300n	5.0Ø	2.0m	70 †				700f	PLØ	u104a	R
104#	DC5411	150mØ	5.0G§	1.0mØ	§J	15	15	3.0	10m	300n	5.0Ø	2.0m	70 †				700f	PLØ	u104a	R
105#	2SC593	165m	150M§	1.0m	§J	50	30	5.0	30m	1.0uØ	10Ø	1.0mØ	40 †Δ				2.0p	PEØ	TO72	GØ
106	2N4433	165m	200M§	1.1m	§J	50	30	5.0	30m	.01uØ	10Ø	1.0mØ	50 †Δ				1.5p	PEØ	TO72	J
107#	BCW87	167m§	125M§Δ	1.2m	§J	45	45	7.0	100m	10n	5.0Ø	2.0mØ	250 †Δ	30u	4.5k	2.0	6.0p§Ø	PE	u122	A
108	2N1272	170m§		769u	$S	20		2.0	100m	.70u	10Ø	2.0mØ	50				1.5p	D	TO9	AØ
109	2N4259	175m		1.1m	§	40	30	2.5		10nØ	8.0Ø	2.0mØ	70 Δ				550p	Ø	R115	G
110#	BSX38	175m*	200MΔ§	1.7m	§J	35	30	5.0	100m	.05uØ	.50Ø	10mØ	65 †Δ				5.0p	PL	TO18	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1	SE5022	175m	300M§△	1.1m	§J	20	20	3.0		50nØ	5.0Ø	4.0mØ	40 †#				500ft☑	DPLØ	TO72		Ø
2	SE5023	175m	300M§△	1.1m	§J	20	20	3.0		50nØ	5.0Ø	4.0mØ	40 †#				500ft☑	DPLØ	TO72		Ø
3	SE5024	175m	300M§△	1.2m	§J	20	20	3.0		.05uØ	5.0Ø	4.0mØ	40 †#				.5pt☑	DPLØ	TO72		G
4	SE5050	175m	300M§△	1.2m	§J	20	20	3.0		.05uØ	5.0Ø	4.0mØ	40 †#				.5pt☑	DLØ	TO72		G
5	SE5051	175m	300M§△	1.2m	§J	20	20	3.0		.05uØ	5.0Ø	4.0mØ	40 †#				.5pt☑	DPLØ	TO72		G
6	SE5020	175m	375M§△	1.2m	§J	20	20	3.0		.05uØ	5.0Ø	4.0mØ	40 †#				.5pt☑	DPLØ	TO72		G
7	SE5021	175m	375M§△	1.2m	§J	20	20	3.0		.05uØ	5.0Ø	4.0mØ	40 †#				.5pt☑	DPLØ	TO72		G
8#	BF222	175m	400M§	1.1m	§J	50	50	4.0	20m	1.0u§	7.0Ø	2.0mØ	20 †△					DPE	TO72		
9	BF166	175m	500M§	1.2m	§J	40		3.0		.10uØ	12Ø	2.5mØ	50 †#				.40pt	DPLØ	TO72		
10	BF175	175m	500M§	1.2m	§J	40	40	3.0		.10uØ	12Ø	2.5mØ	70 †#				.40pt	DPLØ	TO72		
11	SE5052	175m	500M§	1.2m	§J	20	20	3.0		.05uØ							.17p$	DPLØ	R96		G
12	SE5055	175m	500M§	1.1m	§J	20	20 ☑	3.0		50n	10Ø	2.0mØ	80				130f$	DPLØ	TO72		J
13#	BF161	175m	550M§	1.2m	§J	50	50	3.0	20m	.05uØ	24Ø	1.5mØ	70 †				1.2p	PLØ	TO72		G
14	BFX31	175m	550M§	1.0m	§J	30	30	3.0		.05uØ	12Ø	4.0mØ	80 †#				.4pt	DPEØ	TO72		
15	BF155	175m	600M§	1.2m	§J	40	40	3.0	20m	.10uØ	12Ø	2.5mØ	70 †#				.40pt	DPLØ	TO72		
16#	BFY88	175m*	850M§	1.3m	§J	40	25	3.5	25m	10u	1.0Ø	5.0mØ	40 †△				8.0p	PEØ	TO72		J
17#	BFX47	175m	1.0G§	1.7m	§J	30	24 §	2.5	40m	100n							3.8p$	PE	TO72		G
18#	2SC1553	175m	4.5G§		§J	20	20	3.0	30m	100nØ	10Ø	5.0mØ	100 †				1.1p☑	EP	TO72		
19	SK3018-RT	180m	120M§			45	45	4.5	50m		1.0Ø	3.0 Ø	130 †					PE	TO72		G
20	2SC403A	180m	140M§		♦J	50			100m	.20uØ	3.0Ø	1.0mØ	60 †				2.8p	EM	u37		
21#	MT6003	180m	150M§△	1.4m	§J	25	25 *	4.0		100nØ	5.0Ø	50mØ	30 †△				12p☑	PL	u81		B
22#	BF255C	180m	200M§	1.8m	♦A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	72 †△					DPE	u29		C
23#	BF255D	180m	200M§	1.8m	♦A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	38 †△					DPE	u29		C
24#	BF254B	180m	260M§	1.8m	♦A	30	20	5.0	30m	50nØ	10Ø	1.0mØ	110 †△					DPE	u29		C
25#	BC167△	180m	300M§	2.2m	♦J		45	6.0	100m	20n§Ø	5.0Ø	2.0mØ	330	30u	4.5k	2.0		PEØ	TO92		
26#	BC168△	180m	300M§	2.2m	♦J		20	5.0	100m	20n§Ø	5.0Ø	2.0mØ	330	30u	4.5k	2.0		PEØ	TO92		
27#	BC169△	180m	300M§	2.2m	♦J		20	5.0	100m	20n§Ø	5.0Ø	2.0mØ	330	30u	4.5k	2.0		PEØ	TO92		
28	2N5181	180m	400M§△	1.2m	§S	45		3.0	50m	.02uØ	6.0Ø	1.0mØ	27 †△				.32p$		TO104		J
29	2N5182	180m	400M§△	1.2m	§S	35		3.0	4.0m	.03uØ	6.0Ø	1.0mØ	27 †△				.34p$		TO104		J
30#	2SC682	180m	550M§			20	20	3.0	30m	100u	10Ø	2.0mØ	5.5				.47p	PE			
31#	2SC683	180m	550M§			20	20	3.0	20m	100u	10Ø	2.0mØ	5.5				.47p	PE			
32	SK3117-RT	180m	550M§			20	20	3.0	20m				60 †						X55a		A
33	2N5180	180m	650M§△	1.2m	§S	30	15	2.0		500nØ	8.0Ø	2.0mØ	20 †△				1.0p$☑		TO72		G
34	40238	180m	800M§	1.2m	§J	45		4.5	50m	1.0uØ	6.0Ø	1.0m	170 †☑				500f$	PL	TO72		G
35	40239	180m	800M§	1.2m	§J	45		4.5	50m	1.0uØ	6.0Ø	1.0m	100 †☑				500f$	PL	TO72		G
36	40240	180m	800M§	1.2m	§J	45		4.5	50m	1.0uØ	6.0Ø	1.0m	275 †☑				500f$	PL	TO72		G
37	40244	180m	800M§	1.2m	§J	45	45	4.5	50m	20nØ	6.0Ø	1.0m	65 †				500f$	PL	TO72		G
38	40245	180m	800M§	1.2m	§J	45	45	4.5	50m	20nØ	6.0Ø	1.0m	130 †				500f$	PL	TO72		G
39	40246	180m	800M§	1.2m	§J	45	45	4.5	50m	20nØ	6.0Ø	1.0m	55 †				500f$	PL	TO72		G
40	40475	180m	800M§	1.2m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	170 †☑				500f$	PL	TO72		JØ
41	40476	180m	800M§	1.2m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	100 †☑				500f$	PL	TO72		JØ
42	40477	180m	800M§	1.2m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	275 †☑				500f$	PL	TO72		JØ
43	40478	180m	800M§	1.2m	§J	45		3.0	50m	20nØ	6.0	1.0m	40 †△				500f$	PL	TO72		JØ
44	40479	180m	800M§	1.2m	§J	45		3.0	50m	20nØ	6.0	1.0m	40 †△				500f$	PL	TO72		JØ
45	40480	180m	800M§	1.2m	§J	45		3.0	50m	20nØ	6.0	1.0m	27 †△				500f$	PL	TO72		JØ
46	40243	180m	850M§	1.2m	§J	45	45	4.5	50m	20nØ	6.0Ø	1.0m	80 †				500f$	PL	TO72		G
47	40481	180m	860M§	1.2m	§J	45		3.0	50m	20nØ	6.0	1.0m	70 †△				500f$	PL	TO72		JØ
48	40482	180m	860M§	1.2m	§J	45		3.0	50m	20nØ	6.0	1.0m	27 †△				500f$	PL	TO72		JØ
49	40242	180m	900M§	1.2m	§J	45	45	4.5	50m	20nØ	6.0Ø	1.0m	80 †				500f$	PL	TO72		G
50	40472	180m	900M§	1.2m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	170 †☑				500f$	PL	TO72		JØ
51	40473	180m	900M§	1.2m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	275 †☑				500f$	PL	TO72		JØ
52	40474	180m	900M§	1.2m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	275 †☑				500f$	PL	TO72		JØ
53	40235	180m	1.0G§	1.2m	§J	45		4.5	50m	1.0uØ	6.0Ø	1.0m	170 †☑				500f$	PL	TO72		G
54	40236	180m	1.0G§	1.2m	§J	45		4.5	50m	1.0uØ	6.0Ø	1.0m	275 †☑				500f$	PL	TO72		G
55	40237	180m	1.0G§	1.2m	§J	45		4.5	50m	1.0uØ	6.0Ø	1.0m	275 †☑				500f$	PL	TO72		G
56	SK3019-RT	180m	1.2G§			45	45	4.5	50m		1.0Ø	3.0 Ø	130 †					PE	TO72		G
57#	BFR53	180m☑	2.0G§	1.1m	§J	18	10	2.5	100m#	50nØ	5.0Ø	50mØ	25 †△				900f$	PE†	u56		A
58▼#	BFR53R	180m☑	2.0G§	1.1m	§J	18	10	2.5	100m#	50nØ	5.0Ø	50mØ	25 †△				900f$	PE†	u56		C
59♦	BFR90	180m☑	5.0G§	2.0m	§J	20	15	2.0	25m	50nØ	10Ø	14mØ	50 †#				500f$	PEØ	X124		C
60♦	BFR91	180m☑	5.0G§	2.0m	§J	15	12	2.0	35m	50nØ	5.0Ø	30mØ	50 †#				700f$	PEØ	X124		C
61#	BFR92	180m☑	5.0G§	2.0m	§J	20	15	2.0	25m	50nØ	10Ø	14mØ	50 †				750f$	PE†	u56		A
62▼#	BFR92R	180m☑	5.0G§	2.0m	§J	20	15	2.0	25m	50nØ	10Ø	14mØ	50 †#				750f$	PEØ	u56		C
63#	BFR93	180m☑	5.0G§	2.0m	§J	18	10	2.0	35m	50nØ	5.0Ø	30mØ	50 †				850f$	PE†	u56		A
64▼#	BFR93R	180m☑	5.0G§	2.0m	§J	15	12	2.0	35m	50nØ	5.0Ø	30mØ	50 †				700f$	PEØ	u56		C
65	LDA490	180m	5.0G§	2.0m	§J	20	15	2.0	25m	50nØ	10Ø	14mØ	50 †				500f$	PEØ	TO122		P
66	LDA491	180m	5.0G§	2.0m	§J	15	12	2.0	35m	50nØ	5.0Ø	30mØ	50 †				700f$	PEØ	TO122		P
67#	BFW93	190m	1.8G§	2.5m	§J	18	10	2.5	50m	50nØ	5.0Ø	25mØ	25 †△				600f$	PEØ	u105		C
68	2N2711	200m		2.6m	♦S	18	18	5.0	100m	500n	4.5	2.0mØ	30 △				12p☑		TO98		B
69	2N2712	200m		2.6m	♦S	18	18	5.0	100m	500n	4.5	2.0mØ	80 △				12p☑		TO98		B
70	2N2713	200m		2.6m	♦S	18	18	5.0	200m	500n	4.5	2.0mØ	30 △						TO98		B
71	2N2714	200m		2.6m	♦S	18	18	5.0	200m	500n	4.5	2.0mØ	80 △						TO98		B
72	2N2715	200m		2.6m	♦S	18	18	5.0	50m	500n	4.5	2.0mØ	30 △				5.0p☑		TO98		B
73	2N2716	200m		2.6m	♦S	18	18	5.0	50m	500n	4.5	2.0mØ	80 △				5.0p☑		TO98		B
74	2N2921	200m		2.6m	♦S	25	25	5.0	100m	500n	10	2.0mØ	35 △				12p☑		TO98		B
75	2N2922	200m		2.6m	♦S	25	25	5.0	100m	500n	10	2.0mØ	55 △				12p☑		TO98		B
76	2N2923	200m		2.6m	♦S	25	25	5.0	100m	500n	10	2.0mØ	90 △				12p☑		TO98		B
77	2N2924	200m		2.6m	♦S	25	25	5.0	100m	500n	10	2.0mØ	150 △				12p☑		TO98		B
78	2N2925	200m		2.6m	♦S	25	25	5.0	100m	500n	10	2.0mØ	235 △				12p☑		TO98		B
79	2N2926	200m		2.6m	♦S	18	18	5.0	100m	500n	10	2.0mØ	35 △				12p☑		TO98		B
80	2N3390	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	400 △				10p☑		TO98		B
81	2N3390-U29	200m		2.6m	♦S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	400 △				10p☑		u29		B
82	2N3391	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	250 △				10p☑		TO98		B
83	2N3391-U29	200m		2.6m	♦S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 △				10p☑		u29		B
84	2N3391A	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	250 △				10p☑	Ø	TO98		B
85	2N3392	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	150 △				10p☑		TO98		B
86	2N3392-U29	200m		2.6m	♦S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 △				10p☑		u29		B
87	2N3393	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	90 △				10p☑		TO98		B
88	2N3393-U29	200m		2.6m	♦S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	90 △				10p☑		u29		B
89	2N3394	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	55 △				10p☑		TO98		B
90	2N3394-U29	200m		2.6m	♦S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	55 △				10p☑		u29		B
91	2N3395	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	150 △				10p☑		TO98		B
92	2N3396	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	90 △				10p☑		TO98		B
93	2N3397	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	55 △				10p☑		TO98		B
94	2N3398	200m		2.6m	♦S	25	25	5.0	100m	100n	4.5Ø	2.0mØ	55 △				10p☑		TO98		B
95	2N3721	200m		2.6m	♦S	18	18	5.0	100m	500n	10	2.0m	60 △				12p☑		TO98		B
96	2N3877	200m		2.6m	§S	70	70	4.0	50m	500n	4.5Ø	2.0mØ	20 †△						TO98		B
97	2N3877A	200m		2.6m	§S	85	85	4.0	50m	500nØ	4.5Ø	2.0mØ	20 †△						TO98		B
98	2N3900	200m		2.6m	♦S	18	18	5.0	100m	100n	4.5Ø	2.0mØ	170 △				12p☑		TO98		B
99	2N3900A	200m		2.6m	♦S	18	18	5.0	100m	100n	4.5Ø	2.0mØ	170 △				12p☑	Ø	TO98		B
100	2N3901	200m		2.6m	♦S	18	18	5.0	100m	100nØ	10Ø	2.0mØ	350 △					Ø	TO98		B
101	2N4086	200m		2.6m	♦S	12	12	5.0	100m	100n	10Ø	2.0mØ	150 △				12p☑		TO98		B
102	2N4256†	200m		2.6m	♦S	30	30 Ø	5.0	100m	500n	.20Ø	10mØ	60 †△						TO98		B
103	2N5172	200m		2.6m	§S	25	25	5.0	100m	100n	10Ø	10mØ	100 △				10p$☑		TO98		B
104	2N5174	200m		2.6m	♦S	90	75	5.0	25m	500nØ	5.0Ø	10mØ	40 △						TO98		B
105	2N5175	200m		2.6m	♦S	130	100	5.0	25m	500nØ	5.0Ø	10mØ	55 △						TO98		B
106	2N5176	200m		2.6m	♦S	130	100	5.0	25m	500nØ	5.0Ø	10mØ	140 △						TO98		B
107	3N87Ø	200m		1.3m	§S	20		10	10m	1.0n	5.0Ø	500uØ	5.0 △				3.5p☑		TO72		GCØ
108	3N88Ø	200m		1.3m	§S	20		10	10m	1.0n	5.0Ø	500uØ	5.0 △				3.5p☑		TO72		GCØ
109	40894	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PEØ	TO72		G
110	40895	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PE	TO72		G

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	40896	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PE	TO72	G	
2	40897	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PE	TO72	G	
3	BC170	200m		2.0	♦J	20	20	5.0	100m	100n	1.0Ø	1.0 Ø	35 †△						TO106	A	
4	CS4193	200m		2.0m	♦J	30	12	2.0		500nØ	10Ø	8.0mØ	50				1.4p	Ø	TO106	A	
5	CS4194	200m		2.0m	♦J	30	12	2.0		500nØ	10Ø	8.0mØ	50				1.4p	Ø	TO106	A	
6	IT122*	200mØ		2.0mØ	♦J	45	35	7.0	10m	1.0n	5.0Ø	10uØ	80 †△				2.0pØ	PL*	L79a		
7#	MD2974*	200m		1.6m	§J	45	45	6.0	30m	10nØ	5.0Ø	1.0mØ	150 †△					PL*Ø	R148a		
8#	MD2975*	200m		1.6m	§J	45	45	6.0	30m	10nØ	5.0Ø	1.0mØ	300 †△					PL*Ø	R148a		
9#	MD2978*	200m		1.6m	§J	60	60	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 †△					PL*Ø	R148a		
10#	MD2979*	200m		1.6m	§J	60	60	6.0	30m	2.0nØ	5.0Ø	1.0mØ	300 †△					PL*Ø	R148a		
11	MPS2923	200m		2.7m	#J	25	25	5.0	100m	.50u	10Ø	2.0mØ	90 △				12pØ	DE△	X20b		
12	MPS2924	200m		2.7m	#J	25	25	5.0	100m	.50u	10Ø	2.0mØ	150 △				12pØ	DE△	X20b		
13	MPS2925	200m		2.7m	#J	25	25	5.0	100m	.50u	10Ø	2.0mØ	235 △				12pØ	DE△	X20b		
14#	BF357	200m	1.6M§	1.6m	§S	30	15	3.0	50m	10nØ	6.0Ø	5.0mØ	100				1.2p	PE†	X55c	A	
15	2N470	200m	8.0M§△	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	10 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
16	2N471	200m	8.0M§△	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	10 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
17	2N471A	200m	8.0M§△	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	10 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
18	2N472	200m	8.0M§△	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	10 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
19	2N472A	200m	8.0M§△	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	10 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
20	2N473	200m	8.0M§△	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	10 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
21	2N474	200m	8.0M§△	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	20 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
22	2N474A	200m	8.0M§△	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	20 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
23	2N475	200m	8.0M§△	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	20 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
24	2N475A	200m	8.0M§△	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	20 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
25	2N541	200m	10M§△	1.2m	§S	15	15	2.0	25m	500nØ	5.0Ø	1.0m	80 △	1.5u∅b	90 ∅		20p∅		TO5	A	
26	2N542	200m	10M§△	1.2	§S	30	30	2.0	25m	500nØ	5.0Ø	1.0m	80 △	1.5u∅b	90 ∅		20p∅		TO5	A	
27	2N542A	200m	10M§△	1.2m	§S	30	30	2.0	25m	500n	5.0	1.0m	80 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
28	2N543	200m	10M§△	1.2m	§S	50	50	2.0	25m	500nØ	5.0Ø	1.0m	80 △	1.5u∅b	90 ∅		20p∅		TO5	A	
29	2N543A	200m	10M§△	1.2m	§S	50	50	2.0	25m	500n	5.0	1.0m	80 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
30	2N476	200m	12M§△	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	30 △	1.5u∅b	90 ∅		10p∅		TO5	A	
31	2N477	200m	12M§△	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	30 △	1.5u∅b	90 ∅		10p∅		TO5	A	
32	2N476A	200m	17.M			15						1.0mØ	45					GD			
33	2N478	200m	20M§△	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	40 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
34	2N479	200m	20M§△	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	40 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
35	2N479A	200m	20M§△	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	40 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
36	2N480	200m	20M§△	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	40 △	1.5u∅b	90 ∅		8.0p∅		TO5	A	
37	2N480A	200m	20M§△	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	40 △	1.2u∅b	70 ∅	10 ∅	8.0p∅		TO5	A	
38	2N1674	200m	20M§△	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0mØ	50 △	1.5u∅b	90 ∅		20p∅		TO5	A	
39#	BC114	200m	20M§△	2.0m	♦J	30	25	6.0		.05uØ	10Ø	.05mØ	200 †				4pØ	DPLØ	R97a		
40	EN930	200m	30M§△	2.0m	♦J	45	45	5.0	30m	.50n	5.0Ø	1.0mØ	600 ∅	1.0u∅b	32 ∅	6.0 ∅	8.0p∅	DPEØ	TO106	A	
41#	PL4061	200m	30M§△	1.3m	§S	45	45 *	5.0	30m	10n	5.0Ø	10uØ	40 †△				8pØ	PLØ	u51		
42#	PL4062	200m	30M§△	1.3m	§S	45	45 *	5.0	30m	10n	5.0Ø	10uØ	100 †△				8pØ	PLØ	u51		
43#	PN929	200m	30M§	2.0m	♦J	45	45	5.0	30m	50n	5.0Ø	10uØ	40 △				8.0p∅	PL	TO106	A	
44▼#	PN930∅	200m	30M§	2.0m	♦J	45	45	5.0	30m	50n	5.0Ø	10uØ	100 △				8.0p∅	PL	TO106	A	
45	TD101*	200m	30M§△	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	200nb∅	32 ∅		8.0p∅	PL*	L2z		
46	TD102*	200m	30M§△	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	200n∅b	32 ∅		8.0p∅	PL†	L2z		
47	TD201*	200m	30M§△	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	200n∅b	32 ∅		8.0p∅	PL*	L2z		
48	TD202*	200m	30M§△	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	200n∅b	32 ∅		8.0p∅	PL†	L2u		
49	2N3565	200m	40M§△	2.0m	♦J	30	25	6.0	50m	50nØ	5.0Ø	1.0mØ	120 △	100u∅	20k∅		4.0p∅		R110	A	
50	2N4966	200m	40M§△	2.0m	♦J	50	40	6.0	30m	25nØ	5.0Ø	1.0mØ	500 ∅	1.0u∅b	32 ∅	6.0 ∅	6.0p$	Ø	TO106	A	
51	2N4967	200m	40M§△	2.0m	♦J	50	40	6.0	30m	25nØ	5.0Ø	1.0mØ	950 ∅	1.0u∅b	32 ∅	6.0 ∅	6.0p$	Ø	TO106	A	
52	2N4968	200m	40M§△	2.0m	♦J	30	25	6.0	30m	50nØ	5.0Ø	1.0mØ	500 ∅	1.0u∅b	32 ∅	6.0 ∅	6.0p$	Ø	TO106	A	
53	2N5133	200m	40M§△	2.0m	♦J	20	18	3.0	50m	.05uØ	5.0Ø	1.0mØ	50 △				5p$		TO106	A	
54	3N120Ø	200m	40M§△	1.3m	§S	30		20	10m	.01u							10p∅		TO72	GCØ	
55	3N121Ø	200m	40M§△	1.3m	§S	30		20	10m	.01u							10p∅		TO72	GDØ	
56	JAN3N127Ø	200m	40M§△	2.0m	§J	30		20	20m	10nØ							4.0p∅		TO72	GCØ	
57	BC132	200m	40M§△	2.0m	♦J	30	25	6.0		.05uØ	5.0Ø	1.0mØ	280	11u	7.5k	3.0	2.2p	PL	R97a		
58	CS4003	200m	40M§△	2.0m	♦J	30	25	6.0		50nØ	10Ø	8.0mØ	150 †	10u	7.0k	5.0	4.0p∅	E	TO106	A	
59	CS4060	200m	40M§△	2.0m	♦J	40	40	5.0		10n	5.0Ø	1.0mØ	50 △				6.0p∅	Ø	R124b	A	
60	CS4061	200m	40M§△	2.0m	♦J	40	40	5.0		10n	5.0Ø	1.0mØ	250				6.0p∅	Ø	R124b	A	
61	RE4001	200m	40M§△	2.0m	♦J	30	25	6.0		200nØ	5.0Ø	1.0mØ	280	11u	7.5	3.0	4.0p∅	DPE	TO106		
62	SE4001	200m	40M§△	2.0m	♦J	30	25	6.0		.20uØ	5.0Ø	1.0mØ	280	11u	7.5	3.0	4pØ	DPL	R124b	A	
63#	C407	200m	50.M§	2.0m	♦J	120	120	5.0		.20uØ	10Ø	3.0mØ	18 †△					PL	R97		
64	CS4062	200m	50M§△	2.0m	♦J	60	60	5.0		10nØ	5.0Ø	1.0mØ	350				6.0p∅	Ø	R124b	A	
65	TD100*	200m	50M§	1.5m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PL*	L2u		
66	TD200*	200m	50M§	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PL*	L2z		
67	TD250*	200m	50M§	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PL*	L2z		
68	2N2453*	200m	60M§△	1.1m	§J	60	30	7.0	50m	5.0nØ	5.0Ø	1.0mØ	150 △	30u∅	5.0k	6.0 ∅	8.0p∅	*	L2t		
69	2N2453A*	200m	60M§△	1.1m	§J	80	50	7.0	50m	5.0nØ	5.0Ø	1.0mØ	150 △	30u∅	5.0k	6.0 ∅	4.0p∅	*	L2t		
70	2N2903*	200m	60M§△	1.1m	§J	60	30	7.0	50m	.01uØ	5.0Ø	1.0mØ	150 △	30u∅	1.0k	6 ∅	8pØ	*Ø	L2t		
71	2N2903A*	200m	60M§△	1.1m	§J	60	30	7.0	50m	.01uØ	5.0Ø	1.0mØ	150 △	30u∅	1.0k	6 ∅	8pØ	*Ø	L2t		
72	2N3843	200m	60M§△	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	30 △				4.0p∅		TO98	B	
73	2N3843A	200m	60M§△	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	20 †△				4.0p∅		TO98	B	
74#	2SC1453	200m	60M§△		§J	55	50	5.0	100m	100nØ	1.0Ø	10mØ	120 †				7.0p∅	PE	R166	A	
75#	2SC1515K	200m	60M§△	2.0m	♦J	200	150	5.0	50m	100nØ	6.0Ø	10mØ	30 †△				10p∅	DA	u132	B	
76	BC113	200m	60.M§	2.0m	♦J	30	25	6.0		.05uØ	5.0Ø	1.0mØ	330	15u	8.0k	.32	2.0p	DPL	R97a		
77#	C450	200m	60M§△	2.0m	♦J	40	40	5.0		.10uØ	5.0Ø	1.0mØ	100 †△				6pØ	PL	R97a		
78	EN2484	200m	60M§△	2.0m	♦J	60	60	6.0	50m	.05u	5.0Ø	1.0mØ	900 †#∅	40u∅	24k∅	8 ∅	6pØ	DPEØ	TO106	A	
79#	ME4101	200m	60M§△	1.6m	§J	60	45 *	5.0		10nØ	5.0	1.0mØ	60 △	1.0u∅b	32 ∅	6.0 ∅	3.5p∅	PLØ	R110c	A	
80#	ME4102	200m	60M§△	1.6m	§J	60	45 *	5.0		10nØ	5.0	1.0mØ	150 △	1.0u∅b	32 ∅	6.0 ∅	3.5p∅	PLØ	R110c	A	
81#	ME4104	200m	60M§	1.6m	§J	25	25 *	4.0		50nØ	5.0Ø	1.0mØ	180	12u	15k	20	2.0p	PEØ	R110c	A	
82	MMCM930	200m	60M§△	1.1m	§J	60	45	6.0	50m	10nØ	5.0Ø	100uØ	100 †△				6.0p∅	ANØ	u86	C	
83	MMCM2484	200m	60M§△	1.1m	§J	60	60	6.0	50m	10nØ	5.0Ø	100uØ	175 †△				6.0p∅	ANØ	u86	C	
84	RE4002	200m	60M§△	2.0m	♦J	30	25	6.0		200nØ	5.0Ø	1.0mØ	400	15u	15	4.3	4.0p∅	DPE	TO106		
85	RE4010	200m	60M§△	2.0m	♦J	30	25	6.0		200nØ	5.0Ø	1.0mØ	400	15u	15	4.3	4.0p∅	DPE	TO106		
86	SE4002	200m	60M§△	2.0m	♦J	30	25	6.0		.20uØ	5.0Ø	1.0mØ	400	15u	15	4.3	4pØ	DPL	R124b	A	
87	SE4010	200m	60M§△	2.0m	♦J	30	25	6.0		.20uØ	5.0Ø	1.0mØ	400	15u	15	4.3	4pØ	DPLØ	R124b	A	
88#	2SC281	200m	80M§△			30	20	5.0	100m	.10u	6.0Ø	10mØ	170				10p∅	Ø	TO1		
89#	2SC1000	200m	80M§		♦J	55	50		100m	100nØ	6.0Ø	2.0mØ	300 †				10p∅	PE	R67a	B	
90	2N3844	200m	90M§△	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	35 △				4.0p∅		TO98	B	
91	2N3844A	200m	90M§△	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	35 †△				4.0p∅		TO98	B	
92	2N3858	200m	90M§△	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	60 †△				4.0p∅		TO98	B	
93	2N3858A	200m	90M§△	2.6m	♦S	60	60	6.0	100m	500uØ	10Ø	1.0mØ	60 †△				4.0p∅		TO98	B	
94	2N3859	200m	90M§△	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	100 †△				4.0p∅		TO98	B	
95	2N3859A	200m	90M§△	2.6m	♦S	60	60	6.0	100m	500uØ	10Ø	1.0mØ	100 †△				4.0p∅		TO98	B	
96	2N3860	200m	90M§△	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	150 †△				4.0p∅		TO98	B	
97#	ME4103	200m	90M§	1.6m	§J	50	40 *	5.0		10nØ	5.0Ø	1.0mØ	200 †	20u	10k		3.5p∅	PEØ	R110c	A	
98	2N3854	200m	100M§△	2.6m	§S	18	18	4.0	100m	500n	4.5Ø	2.0mØ	35 △				3.5p∅		TO98	B	
99	2N3854A	200m	100M§△	2.6m	§S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	35 †△				3.5p∅		TO98	B	
100	2N5131	200m	100M§△	2.0m	♦J	20	15	3.0	200m	.05uØ	1.0Ø	10mØ	25 △				6p$∅		TO106	A	
101#	2SC458K†	200m	100M§△	2.0m	♦J	30	30	5.0	100m	500nØ	1.0Ø	10mØ	320 †∅*				4.0p∅	PE	u132	B	
102#	2SC713†	200m	100M§△	2.0m	♦J	30	25	4.0	100m	.10uØ	6.0Ø	10mØ	90 †#				2.5p	PE†	TO92	D	
103#	2SC780	200m	100M§	2.0m	♦J	70	70	2.0	20m	5.0uØ	10Ø	2.0m	60				5.0p∅	PE	R67a	B	
104#	2SC1416	200m	100M§		§J	55	50	5.0	50m	100nØ	6.0Ø	2.0mØ	350 †				6.0p∅	PE	R166	A	
105#	2SC1416A	200m	100M§		§J	55	50	5.0	50m	100nØ	6.0Ø	2.0mØ	350 †				6.0p∅	PE	R166	A	
106▼#	2SC1570	200m	100M§		♦	55	50	5.0	100m	100nØ	6.0	1.0m	40 †					PEØ	u55a	B	
107▼#	2SC1571	200m	100M§		♦	40	35	5.0	100m	100nØ	6.0	1.0m	40 †					PEØ	u55a	B	
108▼#	2SC1571L	200m	100M§		♦	40	35	5.0	100m	100nØ	6.0	1.0m	40 †					PEØ	u55a	B	
109#	ME1075	200m	100M§△	1.6m	§J	75	75 *	4.0		500nØ	10Ø	10mØ	20 †△				6.0p∅	PL	R110c	A	
110#	2SC941	200m	120M§	2.0m	♦J	35	30	4.0	20m	100nØ	12Ø	2.0mØ	60 †				2.7p	PE	R67a	B	

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	2N3845	200m	126M§Δ	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	60 Δ				4.0pⵁ		TO98	B
2	2N3845A	200m	126M§Δ	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	60 †Δ				4.0pⵁ		TO98	B
3	2N3855	200m	130M§Δ	2.6m	§S	18	18	4.0	100m	500n	4.5Ø	2.0mØ	60 Δ				3.5pⵁ		TO98	B
4	2N3855A	200m	130M§Δ	2.6m	§S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	60 †Δ				3.5pⵁ		TO98	B
5	TE3860	200m	135M	2.6m		30	30	4.0	100m	500n	4.5Ø	2.0mØ	150 †				2.5p	PE	R97a	
6	2N3856	200m	140M§Δ	2.6m	§S	18	18	4.0	100m	500n	4.5Ø	2.0mØ	100 Δ				3.5pⵁ		TO98	B
7	2N3856A	200m	140M§Δ	2.6m	§S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	100 †Δ				3.5pⵁ		TO98	B
8	2N4436†	200m	150M§Δ	2.0m	♦J	60	30	5.0	500m	50n§	10Ø	150mØ	40 †Δ#				8.0pⵁ		R124b	A
9	2N4969†	200m	150M§Δ	2.0m	♦S	50	30	5.0	500m	50n§	1.0Ø	150mØ	20 †Δ#				8.0p$ⵁ		TO106	A
10	2N5127	200m	150M§Δ	2.0m	♦J	20	12	3.0	100m	.05uØ	10Ø	2.0mØ	12 Δ				3.5p$		TO106	A
11	2N5128	200m	150M§Δ	2.0m	♦J	15	12	3.0	500m	50n	10Ø	50mØ	35 †Δ#				10p$ⵁ		TO105	A
12#	2SC369	200m	150M§	2.0m	♦J	25	25 §	5.0	100m	100nØ	10Ø	1.0m	250				1.5p	PE	R67a	B
13#	2SC372	200m	150M§	2.0m	♦J	30	25	4.0	100m	1.0uØ	6.0Ø	1.0m	140				2.5p	PE	R67a	B
14#	2SC373	200m	150M§	2.0m	♦J	30	25	4.0	100m	1.0uØ	6.0Ø	1.0m	250				2.5p	PE	R67a	B
15#	2SC378	200m	150M§	2.0m	♦J	35	30	4.0	30m	.50uØ	12Ø	2.0mØ	40 †Δ*				2.0p	PEØ	R67a	B
16#	2SC711	200m	150M§	2.0m	♦J	30	25	4.0	50m	100nØ	6.0Ø	1.0mØ	300 †				2.5p	PE†	TO92	D
17#	2SC711A	200m	150M§	2.0m	♦J	50	45	4.0	50m	100nØ	6.0Ø	1.0mØ	200 †				2.5p	PE†	TO92	D
18#	2SC712	200m	150M§	2.0m	♦J	30	25	4.0	100m	1.0uØ	6.0Ø	10mØ	150 †				2.5p	PE†	TO92	D
19#	2SC869†	200m	150M§	2.0m	♦J	160	50	5.0	30m	100nØ	6.0Ø	1.0mØ	35 †Δ					PE†	TO92	D
20#	BC171	200m	150M§Δ	2.0m	♦J	45	45	5.0	100m	15n	5.0Ø	2.0mØ	275 *	24u	3.6k	1.8	6.0p$ⵁ	PE	X64	
21#	BC172	200m	150M§Δ	2.0m	♦J	20	20	5.0	100m	15n	5.0Ø	2.0mØ	380 *	36u	5.3k	2.5	6.0p$ⵁ	PE	X64	
22#	BC173	200m	150M§Δ	2.0m	♦J	20	20	5.0	100m	15n	5.0Ø	2.0mØ	465 *	45u	6.6k	2.5	6.0p$ⵁ	PE	X64	
23	BC173A	200m	150M§Δ	2.0	♦J		20	5.0	100m	15n	5.0Ø	10uØ	40 †Δ	30mⵁ	4.5kⵁ		4.5pⵁ		TO106	A
24	BC182K	200m	150M§Δ	2.0	♦J	60	50	5.0	100m	15n	5.0Ø	2.0mØ	500 ⵁ				5.0pⵁ		TO106	A
25	BC182KA	200m	150M§Δ	2.0	♦J	60	50	5.0	100m	15n	5.0Ø	2.0mØ	260 ⵁ				5.0pⵁ		TO106	A
26	BC182KB	200m	150M§Δ	2.0	♦J	60	50	5.0	100m	15n	5.0Ø	2.0mØ	240 Δ				5.0pⵁ		TO106	A
27	BC183K	200m	150M§Δ	2.0	♦J	45	30	5.0	100m	15n	5.0Ø	2.0mØ	125 Δ				5.0pⵁ		TO106	A
28	BC183KA	200m	150M§Δ	2.0	♦J	45	30	5.0	100m	15n	5.0Ø	2.0mØ	260 ⵁ				5.0pⵁ		TO106	A
29	BC183KB	200m	150M§Δ	2.0	♦J	45	30	5.0	100	15n	5.0Ø	2.0mØ	500 ⵁ				5.0pⵁ		TO106	A
30	BC183KC	200m	150M§Δ	2.0	♦J	45	30	5.0	100	15n	5.0Ø	2.0mØ	450 Δ				5.0pⵁ		TO106	A
31	BC184K	200m	150M§Δ	2.0	♦J	45	30	5.0	100	15n	5.0Ø	2.0mØ	240 Δ				5.0pⵁ	Ø	TO106	A
32	BC184KB	200m	150M§Δ	2.0	♦J	45	30	5.0	100	15n	5.0Ø	2.0mØ	500 ⵁ				5.0pⵁ	Ø	TO106	A
33	BC184KC	200m	150M§Δ	2.0	♦J	45	30	5.0	100	15n	5.0Ø	2.0mØ	450 Δ				5.0pⵁ	Ø	TO106	A
34#	PBC107	200m	150M§Δ	2.6m	#J	45	45	5.0	100m	100n	5.0Ø	2.0mØ	125 Δ	60uⵁ	8.5kⵁ	1.8	60p	PEØ	TO98	B
35#	PBC108	200m	150M§Δ	2.6m	#J	20	20	5.0	100m	100n	5.0Ø	2.0mØ	125 Δ	110uⵁ	15kⵁ	2.0	60p	PEØ	TO98	B
36#	PBC109	200m	150M§Δ	2.6m	#J	20	20	5.0	100m	100n	5.0Ø	2.0mØ	240 Δ	110uⵁ	15kⵁ	2.5	60p	PEØ	TO98	B
37	2SC174	200m	170M§	1.3m	§J	30		5.0	25m	1.0uØ	6.0Ø	2.0m	45				1.5p	PL	TO92	G
38	2SC56	200m	180M§	2.1m	♦J	20		3.0	25m	2.0uØ	6.0Ø	2.0m	80		80		2.3p	PL	R127	
39#	2SC281H	200m	180M§			30	20	5.0	100m	.10u	6.0Ø	10mØ	9.0				10pⵁ		TO1	
40	2N3691	200m	200M§Δ	2.0m	♦J	35	20	4.0	30m	50uØ	10Ø	5.0mØ	40 Δ				3.5pⵁ		R110	A
41	2N3692	200m	200M§Δ	2.0m	♦J	35	20	4.0	30m	50uØ	10Ø	5.0mØ	100 Δ				3.5pⵁ		R110	A
42	2N3693	200m	200M§Δ	2.0m	♦J	45	45	4.0	30m	50uØ	10Ø	10mØ	40 †Δ#				6.0pⵁ		R110	A
43	2N3694	200m	200M§Δ	2.0m	♦J	45	45	4.0	30m	50uØ	10Ø	10mØ	100 †Δ#				6.0pⵁ		R110	A
44	2N4970†	200m	200M§Δ	2.0m	♦S	50	30	5.0	500m	.05u§	10Ø	150mØ	350 †#				8p$		TO106	A
45	2N5132	200m	200M§Δ	2.0m	♦J	20	20	3.0	30m	.05uØ	10Ø	10mØ	20 Δ				3.5p$		TO106	A
46#	2SC174A	200m	200M§	1.3m	§J	60		5.0	25m	1.0uØ	6.0Ø	2.0m	45				1.5p	PL	TO72	G
47#	2SC206	200m	200M§	1.3m	§J	20		2.0	25m	2.0uØ	6.0Ø	2.0m	35				1.5p	PL	TO72	G
48#	2SC372G	200m	200M§	2.0m	♦J	35	30	5.0	100m	.50uØ	1.0Ø	10mØ	70 †Δ				3.5pⵁ	PEΔ	R67a	B
49#	2SC373G	200m	200M§	2.0m	♦J	35	30	5.0	100m	.50uØ	1.0Ø	10mØ	125 †Δ				3.5pⵁ	PEΔ	R67a	B
50#	2SC394	200m	200M§	2.0m	♦J	35	30	4.0	100m	.50uØ	12Ø	2.0mØ	25 †Δ*				2.0p	PE	R67a	B
51	2SC561	200m	200M§	2.0m	♦J	20		2.0	25m	2.0uØ	6.0Ø	2.0m	35		80		2.0p	PL	R127	
52#	2SC710	200m	200M§	2.0m	♦J	30	25	4.0	30m	1.0uØ	6.0Ø	1.0mØ	90 †#				2.0p	PE†	TO92	D
53#	BC118	200m	200M§Δ	2.0m	♦J	45	45	4.0		.10uØ	10Ø	5.0mØ	110	25u	900	1.2	3.5pⵁ	DPLØ	R97a	
54#	BC134	200m	200M§Δ	2.0m	♦J	45	45	4.0		100nØ	10Ø	5.0mØ	230	35u	1.1k	1.2	3.5pⵁ	PL	R97a	
55#	BC135	200m	200M§Δ	2.0m	♦J	45	45	5.0		.05uØ	10Ø	5.0mØ	110	35u	800	1.2	3.5pⵁ	DPL	R97a	
56#	BC207	200m	200M§	2.0m	♦J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	250	20u	4.0k	2.7	3.1p	PE	R110	A
57#	BC207A	200m	200M§	2.0m	♦J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	190	13u	3.0k	1.7	3.1p	PE	R110	A
58#	BC207B	200m	200M§	2.0m	♦J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	300	26u	4.8k	3.7	3.1p	PE	R110	A
59#	BC208	200m	200M§	2.0m	♦J	25	20	5.0	100m	15nØ	5.0Ø	2.0mØ	370	30u	5.5k	3.1	3.1p	PE	R110	A
60#	BC208A	200m	200M§	2.0m	♦J	25	20	5.0	100m	15nØ	5.0Ø	2.0mØ	190	13u	3.0k	1.7	3.1p	PE	R110	A
61#	BC208B	200m	200M§	2.0m	♦J	25	20	5.0	100m	15nØ	5.0Ø	2.0mØ	300	26u	4.8k	2.7	3.1p	PE	R110	A
62#	BC208C	200m	200M§	2.0m	♦J	25	20	5.0	100m	15nØ	5.0Ø	2.0mØ	500	34u	7.0k	3.8	3.1p	PE	R110	A
63#	BC209	200m	200M§	2.0m	♦J	25	20	5.0	100m	15nØ	5.0Ø	2.0mØ	370	30u	5.5k	3.1	3.1p	PE	R110	A
64#	BC209B	200m	200M§	2.0m	♦J	25	20	5.0	100m	15nØ	5.0Ø	2.0mØ	300	26u	4.8k	3.7	3.1p	PE	R110	A
65#	BC209C	200m	200M§	2.0m	♦J	25	20	5.0	100m	15nØ	5.0Ø	2.0mØ	550	34u	7.0k	3.8	3.1p	PE	R110	A
66#	BSY61†	200m	200M§Δ	2.0m	♦J	25	15	5.0	200m	.50uØ	1.0Ø	10mØ	30 †Δ					D †	TO92	B
67	EN706†	200m	200M§Δ	2.0m	♦J	25	15	3.0		.50nØ	1.0Ø	10mØ	20 †#Δ				6pⵁ	DPE	TO106	A
68	MMCM2222†	200m	200M§Δ	1.1m	§J	60	30	5.0		50nØ	10Ø	1.0mØ	50 †Δ				3.5p	AN	u86	C
69	RE2001	200m	200M§Δ	2.0m	♦J	35	20	4.0		500nØ	1.0Ø	10mØ	40 †#Δ	25u	900	1.2	6.0pⵁ	DPE	TO106	
70	RE2002	200m	200M§Δ	2.0m	♦J	35	20	4.0		500nØ	1.0Ø	10mØ	100 †#Δ	35u	1.1k	1.3	6.0pⵁ	DPE	TO106	
71	SE2001	200m	200M§Δ	2.0m	♦J	35	20	4.0		.50uØ	1.0Ø	10mØ	40 †#Δ	25u	900	1.2	6pⵁ	DPL	TO106	
72	SE2002	200m	200M§Δ	2.0m	♦J	35	20	4.0		500nØ	1.0Ø	10mØ	100 †Δ#	35u	1.1k	1.3	6.0pⵁ	DPL	TO106	
73	SE4020	200m	200M§	2.0m	♦J	60	60	8.0	50m	2.0nØ	10Ø	1.0mØ	335	24u	8.5k	7.0	2.5p$	DPEØ	TO106	A
74#	2SC454	200m	230M§	2.0m	♦J	30	30	5.0	100m	.50uØ	12Ø	2.0mØ	60 †Δ*				1.8p	PE†	MM12b	B
75#	2SC458	200m	230M§	2.0m	♦J	30	30	5.0	100m	.01uØ	12Ø	2.0mØ	60 †Δ*				1.8p	PE†	MM12b	B
76#	2SC458LG	200m	230M§			30	30	5.0	100m	.50u	12Ø	2.0mØ	60 †Δ				1.8p	Ø		
77#	2SC460	200m	230M§			30	30	5.0	100m	.50u	12Ø	2.0mØ	35 †Δ				1.5p	PE		
78#	2SC461	200m	230M§			30	30	5.0	100m	.50u	12Ø	2.0mØ	35 †Δ				1.5p	PE		
79#	2SC536	200m	230M§		♦J	40		5.0	100m	1.0u	6.0Ø	1.0mØ	120 †				3.0p	PLΔ	R145	D
80#	2SC537	200m	230M§		♦J	20		5.0	100m	1.0u	6.0Ø	1.0mØ	120 †				3.0p	PLΔ	R145	D
81#	2SC1335	200m	230M§		♦J	30	30	5.0	100m	500nØ	12Ø	2.0mØ	35 Δ†				1.8p	PE†		
82#	2SC1344	200m	230M§		♦J	30	30	5.0	100m	500nØ	12Ø	2.0mØ	35 Δ†				1.8p	PE†		
83#	2SC1345	200m	230M§		♦J	55	50	5.0	100m	500nØ	12Ø	2.0mØ	35 Δ†				1.8p	PE†		
84	2N3291	200m	250M§Δ	1.1m	§J	25	25 Ø	3.0	50m	100nØ	10Ø	2.0mØ	10 Δ				2.0pⵁ	Ø	TO72	GØ
85	2N3292	200m	250M§Δ	1.1m	§J	25	25 Ø	3.0	50m	.10uØ	10Ø	2.0mØ	10 Δ				2pⵁ		TO72	GØ
86	2N3293	200m	250M§Δ	1.1m	§J	20	20 Ø	3.0	50m	.10uØ	10Ø	2.0mØ	10 Δ				2pⵁ		TO72	GØ
87	2N3294	200m	250M§Δ	1.1m	§J	20	20 Ø	3.0	50m	.10uØ	10Ø	2.0mØ	10 Δ				2pⵁ		TO72	GØ
88	2N4437†	200m	250M§Δ	2.0m	♦J	60	30	5.0	500m	.05u§	10Ø	150mØ	100 †#Δ				8pⵁ		R124b	A
89	2N5134†	200m	250M§Δ	2.0m	♦J	20	10	3.5	100m	.40u§	1.0Ø	10mØ	150 †#ⵁ				4.0p$		TO106	A
90#	2SC171	200m	250M§	1.3m	§J	25	20 §	3.0	50m	.50uØ	6.0Ø	10m	60				5.0p	PL	TO18	
91#	2SC380	200m	250M§	2.0m	♦J	35	30	4.0	30m	.50uØ	12Ø	2.0mØ	40 †Δ*				2.0p	PE†	R67a	B
92▼#	2SC380A	200m	250M§	2.0m	♦J	35	30	4.0	30m	500nØ	12Ø	2.0mØ	40 †Δ*				2.0p	PE†	R67a	B
93#	2SC398	200m	250M§Δ	1.6m	§J	20	20	3.0	20m	.05uØ	5.0Ø	4.0mØ	20 †Δ				.5pt ⵁ	PEØ	TO72	G
94#	2SC399	200m	250M§Δ	1.6m	§J	20	20	3.0	20m	.05uØ	5.0Ø	4.0mØ	20 †Δ				.5pt ⵁ	PEØ	TO72	G
95	EN2222	200m	250M§Δ	2.0m	♦J	60	30 *ⵁ	5.0	800m	.05uØ	10Ø	.10mØ	35 †Δ				8pⵁ	DPEΔ	TO106	A
96#	PN107	200m	250M§	2.0m	♦J	50	45	5.0	200m		5.0Ø	2.0 Ø	110 Δ*				4.5p	PL	TO106	A
97#	PN108	200m	250M§	2.0m	♦J	30	20	5.0	200m		5.0Ø	2.0 Ø	110 Δ*				4.5p	PL	TO106	A
98#	PN109	200m	250M§	2.0m	♦J	30	20	5.0	200m		5.0Ø	2.0 Ø	200 Δ*				4.5p	PLØ	TO106	A
99	TD2219*	200m	250M§Δ	1.6m	§J	60	30	5.0	500m	10nØ	10Ø	150mØ	100 †Δ				8.0pⵁ	PLΔ	L2u	
100	SE4021	200m	260M§	2.0m	♦J	45	45	8.0	50m	2.0nØ	10Ø	1.0mØ	1.0k	74u	28k	23	2.5p$	DPEØ	TO106	A
101	SE4022	200m	280M§	5.0m	♦J	30	30	8.0	50m	2.0nØ	10Ø	1.0mØ	1.6k	120u	39k	33	2.5p$	DPEØ	TO106	A
102	EN744†	200m	282M§Δ	2.0m	♦J	20	12 *ⵁ	5.0	200m	1.0u	.25Ø	1.0mØ	20 †Δ				5pⵁ	DPE	TO106	A
103	2N3289	200m	300M§Δ	1.1m	§J	30	15	3.0	50m	.01uØ	10Ø	2.0mØ	10 Δ				2pⵁ	Ø	TO72	GØ
104	2N3290	200m	300M§Δ	1.1m	§J	30	15	3.0	50m	.01uØ	10Ø	2.0mØ	10 Δ				2pⵁ	Ø	TO72	GØ
105	2N3605†	200m	300M§Δ	2.6m	§S	18	14	5.0	200m	500n	1.0Ø	10mØ	30 †Δ				6.0pⵁ		TO98	B
106	2N3606†	200m	300M§Δ	2.6m	§S	18	14	5.0	200m	500n	1.0Ø	10mØ	30 †Δ				6.0pⵁ		TO98	B
107	2N3607†	200m	300M§Δ	2.6m	§S	18	14	5.0	200m	500n	1.0Ø	10mØ	30 †Δ				6.0pⵁ		TO98	B
108	2N3985	200m	300M§Δ	2.0m	§S	30	12	3.0	30m	100nØ	10Ø	0.0					2.2p$ⵁ	Ø	TO92	B
109	2N5126	200m	300M§Δ	2.0m	♦J	20	20	3.0	30m	.05uØ	10	4.0mØ	15 Δ				1.6p$		TO106	A
110#	2SC381	200m	300M§	2.0m	♦J	30	20	4.0	100m	500nØ	10Ø	2.0m	90				2.0p	PE	R67a	B

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1#	BCW31R	200m	300M§	1.6m	§J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	90 †				4.0p$Ø	PE†	u56		C
2#	BCW32R	200m	300M§	1.6m	§J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	150 †				4.0p$Ø	PE†	u56		C
3#	BCW33R	200m	300M§	1.6m	§J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	270 †				4.0p$Ø	PE†	u56		C
4#	BCW46	200m#	300M§	2.0m	§J	80	60	6.0	200m	10u							2.5p$	PE	MM13		F
5#	BCW46A	200m#	300M§	2.0m	§J	80	60	6.0	100m	10u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	2.5p$	PEΔ	MM13		F
6#	BCW46B	200m#	300M§	2.0m	§J	80	60	6.0	100m	10u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	MM13		F
7#	BCW47	200m#	300M§	2.0m	§J	50	45	6.0	200m	10u							2.5p$	PE	MM13		F
8#	BCW47A	200m#	300M§	2.0m	§J	50	45	6.0	100m	10u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	2.5p$	PEΔ	MM13		F
9#	BCW47B	200m#	300M§	2.0m	§J	50	45	6.0	100m	10u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	MM13		F
10#	BCW48	200m#	300M§	2.0m	§J	30	20	5.0	200m	10u							2.5p$	PE	MM13		F
11#	BCW48A	200m#	300M§	2.0m	§J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	2.5p$	PEΔ	MM13		F
12#	BCW48B	200m#	300M§	2.0m	§J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	MM13		F
13#	BCW48C	200m#	300M§	2.0m	§J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	2.5p$	PEΔ	MM13		F
14#	BCW49	200m#	300M§	2.0m	§J	30	20	5.0	200m	10u							2.5p$	PEØ	MM13		F
15#	BCW49B	200m#	300M§	2.0m	§J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	MM13		F
16#	BCW49C	200m#	300M§	2.0m	§J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	2.5p$	PEΔ	MM13		F
17#	BCW71R	200m	300M§	1.6m	§J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	90 †				4.0p$Ø	PE†	u56		C
18#	BCW72R	200m	300M§	1.6m	§J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	150 †				4.0p$Ø	PE†	u56		C
19#	BF153	200m	300M§Δ	2.0m	♦J	30	12	2.0		.10uØ	6.0Ø	3.0mØ	20 †Δ				1.7pØ	PE	R97a		
20	BFX77	200m	300M§	1.3m	§J	50	30	5.0		.01uØ	10Ø	10mØ	50 †Δ				1.8pØ	PE	TO72		J
21	EN708†	200m	300M§Δ	2.0m	♦J	40	15	5.0		.05uØ	1.0Ø	10mØ	30 †#Δ				6pØ	DPE	TO106		A
22	EN914†	200m	300M§Δ	2.0m	♦J	40	15	5.0		.10uØ	1.0Ø	10mØ	30 †#Δ				6pØ	DPE	TO106		A
23	EN916	200m	300M§Δ	2.0m	♦J	45	25	5.0	50m	50n	1.0Ø	10 Ø	50 †Δ#	75uØ	6.0kØ		6.0p	PE	TO106		A
24	2N3287	200m	350M§Δ	1.1m	§J	40	20	3.0	50m	.01uØ	10Ø	2.0mØ	15 Δ				1pØ	Ø	TO72		GØ
25	2N3288	200m	350M§Δ	1.1m	§J	40	20	3.0	50m	.01uØ	10Ø	2.0mØ	15 Δ				2pØ	Ø	TO72		GØ
26	2N3646†	200m	350M§Δ	2.0m	♦J	40	15	5.0	200m	500n§	.40Ø	30mØ	30 †Δ#				5.0pØ		R110		A
27	2N4134	200m	350M§	1.1m	§J	30	30	3.0	30m	.05uØ	5.0Ø	4.0mØ	200 Ø				1.2pØ	Ø	TO72		G
28	CS4021†	200m	350M§Δ	2.0m	♦J	40	15	5.0		500n§	.40Ø	30mØ	60 †#				3.3p	E	R97a		A
29	EN3009†	200m	350M§Δ	2.0m	♦J	40	15	4.0		.50u§	.40Ø	30mØ	30 †#Δ				5pØ	DPE	TO106		A
30	EN3013†	200m	350M§Δ	2.0m	♦J	40	15	5.0		.30u§	.40Ø	30mØ	30 †#Δ				5pØ	DPE	TO106		A
31	EN3014†	200m	350M§Δ	2.0m	♦J	40	15	5.0		.30u§	.40Ø	30mØ	30 †#Δ				5pØ	DPE	TO106		A
32	RE1001	200m	350M§	2.0m	♦J	45	45	4.0		500nØ	10Ø	10mØ	110	25u	900	1.2	3.5pØ	DPE	TO106		
33	RE1002	200m	350M§	2.0m	♦J	45	45	4.0		500nØ	10Ø	10mØ	145	35u	1.1k	1.3	3.5pØ	DPE	TO106		
34	SE1001	200m	350M§	2.0m	♦J	45	45	4.0		.50uØ	10Ø	10mØ	110	25u	900	1.2	3.5pØ	DPLØ	TO106		
35	SE1002	200m	350M§	2.0m	♦J	45	45	4.0		500nØ	10Ø	10mØ	145	35u	1.1k	1.3	3.5pØ	DPLØ	TO106		
36	SE3646†	200m	350M§Δ	2.0m	♦J	40	15	5.0		500n§	.40Ø	30mØ	60 †				3.3p	DPE	TO106		A
37#	2SC864	200m	360M§Δ	1.6m	§J	40	30	4.0	25m	1nØ	10Ø	7.0mØ	39 †Δ				.23pt	PE	TO72		G
38	2N3564	200m	400M§Δ	2.0m	♦J	30	15	4.0	100m	50nØ	10Ø	15mØ	20 Δ				3.5pØ		R110		A
39	2N3688	200m	400MΔ	2.0m	♦J	40	40	4.0	30m	50uØ	10Ø	4.0mØ	30 †Δ				1.6pØ		R110		A
40	2N3689	200m	400MΔ	2.0m	♦J	40	40	4.0	30m	50uØ	10Ø	4.0mØ	30 †Δ				1.6pØ		R110		A
41	2N3690	200m	400MΔ	2.0m	♦J	40	40	4.0	30m	50uØ	10Ø	4.0mØ	30 †Δ				1.6pØ		R110		A
42	2N3984	200m	400M§Δ	2.0m	§S	30	12	3.0	30m	100nØ	10Ø	0.0					1.6p$Ø	Ø	TO92		B
43	2N4274†	200m	400M§Δ	2.0m	♦J	30	12	4.5	100m	10uØ†	1.0Ø	100mØ	18 †#Δ				4p$Ø		R110		A
44	2N4275†	200m	400M§Δ	2.0m	♦J	40	15	4.5	100m	10uØ†	1.0Ø	100mØ	18 †#Δ				4p$Ø		R110		A
45	2N4294†	200m	400M§Δ	1.6m	§S	30	12	4.5	200m	400nØ	1.0Ø	10mØ	30 †Δ				5.0pØ		u29		B
46#	2SC752G†	200m	400M§	2.0m	♦J	40	15	5.0	200m	.25uØ	1.0Ø	10mØ	20 †Δ*				4.0p	PE†	R67a		B
47#	2SC980	200m	400M§		♦J	70	50	5.0	100m	1.0uØ	1.0Ø	10mØ	70 †				3.0p	PE	R67a		B
48#	2SC980A/G	200m	400M§		♦J	90	70	5.0	100m	500nØ	1.0Ø	10mØ	40 Δ†				5.0pØ	PE	R67a		B
49#	BFR28	200m	400M§Δ	1.2m	§J	30	20	3.0	50m	20nØ	5.0Ø	5.0mØ	30 †Δ				950ft†Ø	PEØ	u122		A
50#	BFX18	200m	400M§Δ	1.1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	TO118		G
51#	BFX19	200m	400M§Δ	1.1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	R38		
52#	BFX20	200m	400M§Δ	1.1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	TO118		G
53#	BFX21	200m	400M§Δ	1.1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	TO118		G
54	EN3011†	200m	400M§Δ	2.0m	♦J	30	30 Ø	5.0		.4u§Ø	.35Ø	10mØ	30 †#Δ				4pØ	DPE	TO106		A
55#	SF335	200m	400M§	1.6m	§A	40	30	4.0	25m	50nØ	10Ø	1.0mØ	36 †Δ				350ft	DPE	u29		C
56#	SF335C	200m	400M§	1.6m	§A	40	30	4.0	25m	50nØ	10Ø	1.0mØ	72 †Δ				350ft	DPE	u29		C
57#	SF335D	200m	400M§	1.6m	§A	40	30	4.0	25m	50nØ	10Ø	1.0mØ	38 †Δ				350ft	DPE	u29		A
58	2N4135	200m	425M§	1.1m	§J	30	30	3.0	30m	.05uØ	5.0Ø	4.0mØ	200 Ø				1.2pØ	Ø	TO72		G
59	2N5130	200m	450M§Δ	2.0m	♦J	30	12	1.0	50m	.05uØ	10Ø	8.0mØ	12 Δ				1.7p$		TO106		A
60#	BFS20R	200m	450M§	1.6m	§J	30	20	4.0	25m	100nØ	10Ø	7.0mØ	85 †				350ft	PE†	u56		C
61#	SF334	200m	450M§	1.6m	§A	40	30	4.0	25m	50nØ	10Ø	1.0mØ	67 †Δ				350ft	DPE	u29		C
62#	SF334B	200m	450M§	1.6m	§A	40	30	4.0	25m	50nØ	10Ø	1.0mØ	110 †Δ				350ft	DPE	u29		C
63	2N917	200m	500M§Δ	1.1m	§J	30	15	3.0		1.0nØ	1.0Ø	3.0mØ	20 †#Δ				1.7pØ	Ø	TO72		G
64	2N3983	200m	500M§Δ	2.0m	§S	30	12	3.0	30m	100nØ	10Ø	0.0					1.6p$Ø	Ø	TO92		B
65	2N4295†	200m	500M§Δ	1.6m	§S	40	15	5.0	200m	100nØ	1.0Ø	100mØ	40 †Δ				4.0pØ		u29		B
66#	2SC384	200m	500M§	2.0m	♦J	20	18	2.0	50m	.50uØ	6.0Ø	1.0m	50 †*				1.2p	PE	R67a		B
67#	2SC933†	200m	500M§		♦J	50	30	5.0	300m	1.0u	5.0Ø	20mØ	100 †					PE	TO104		
68#	BF233-2	200m	500M§	2.0m	♦J	30	30	4.0	50m	100u	10Ø	1.0mØ	40				500ft	PE	TO106		
69#	BF233-3	200m	500M§	2.0m	♦J	30	30	4.0	50m	100u	10Ø	1.0mØ	60				500ft	PE	TO106		
70#	BF233-4	200m	500M§	2.0m	♦J	30	30	4.0	50m	100n	10Ø	1.0mØ	90				500ft	PE	TO106		
71#	BF233-5	200m	500M§	2.0m	♦J	30	30	4.0	50m	100n	10Ø	1.0mØ	140				500ft	PE	TO106		
72#	BF233-6	200m	500M§	2.0m	♦J	30	30	4.0	50m	100n	10Ø	1.0mØ	200				500ft	PE	TO106		
73#	BSV52R†	200m	500M§	1.6m	§J	20	12	5.0	100m	100nØ	1.0Ø	10mØ	40 †Δ				4.0p$Ø	PE†	u56		C
74	D16G6	200m	500M§Δ	2.6m	♦J	30	12	3.0	25m	500n	10Ø	5.0mØ	20 †Δ				1.2p	PE	TO98		B
75	EN2369A†	200m	500M§Δ	2.0m	♦J	40	40 Ø	4.5	200m	.40u§	.35Ø	10mØ	40 †#Δ				4pØ	DPE	TO106		A
76	MMCM2369†	200m	500M§Δ	1.1m	§J	40	15	4.5	200m	100nØ	1.0Ø	10mØ	40 †Δ#				4.0pØ	AN	u86		C
77	TIS56	200m	500M§Δ	1.3m	§A	30	20	3.0	30m	.05uØ	10Ø	4.0mØ	20 †Δ				.32p$Ø	PL	TO72		A
78	TIS57	200m	500M§Δ	1.3m	§A	30	20	3.0	30m	.05uØ	10Ø	4.0mØ	20 †Δ				.32p$Ø	PL	TO72		A
79#	BFS62	200m	580M§Δ	1.5m	§J	40	25 *	4.0	25m	10u	2.0Ø	20 Ø	15 †Δ#				330ft†Ø	PEØ	TO72		J
80	2N917A	200m	600M§Δ	1.1m	§S	30	15	3.0		1nØ	1.0Ø	3.0mØ	20 †#Δ				3pØ	Ø	TO72		G
81	2N918	200m	600M§Δ	1.1m	§J	30	15	3.0	50m	.01uØ	1.0Ø	3.0mØ	20 †Δ				2pØ	Ø	TO72		G
82	JAN2N918	200m	600M§Δ	1.1m	§J	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	20 †Δ				1.7pØ	Ø	TO72		G
83	2N2865	200m	600M§Δ	1.1m	§S	25	13	3.0	50m	.01uØ	10Ø	4.0mØ	20 Δ				2.5pØ	Ø	TO72		AØ
84	2N3563	200m	600M§Δ	2.0m	♦J	30	12	2.0	50m	50nØ	10Ø	8.0mØ	20 Δ				1.7pØ		R110		A
85	2N4252	200m	600M§	1.3m	§S	30	18	4.0	50m	.05uØ	10Ø	2.0mØ	50 †Δ				.45p$Ø		TO72		G
86	2N4253	200m	600M§	1.3m	§S	30	18	4.0	50m	.05uØ	10Ø	2.0mØ	30 †Δ				.45p$Ø		TO72		G
87	2N4292	200m	600M§Δ	1.6m	§J	30	15	3.0	50m	500nØ	1.0Ø	3.0mØ	20 †Δ				2.2pØ	Ø	u29		A
88	2N4293	200m	600M§Δ	1.6m	§J	30	15	3.0	50m	500nØ	1.0Ø	3.0mØ	20 †Δ				2.2pØ	Ø	u29		A
89#	2SC375	200m	600M§	2.0m	♦J	20	12	2.0	50m	500nØ	10Ø	8.0m	100				1.5p	PE	R67a		B
90#	2SC386A	200m	600M§		♦	20	15	3.0	20m	500n	3.0Ø	8.0mØ	40 †				1.2p	EP	R67a		
91#	2SC786	200m	600M§		§J	20	12	2.0	20m	50uØ	5.0Ø	4.0mØ	50 †				.60p	PE	TO72		G
92	BF160	200m	600M§	2.0m	♦J	30	12	2.0		.10uØ	10Ø	3.0mØ	50 †#				.80pt	DPE	R97a		
93	BF162	200m	600M§	2.0m	♦J	40	40	4.0		.10uØ	10Ø	4.0mØ	70 †#				.8pt	DPLØ	R97a		
94	BF163	200m	600M§	2.0m	♦J	40	40	4.0		.10uØ	10Ø	4.0mØ	70 †#				.8pt	DPLØ	R97a		
95	BF164	200m	600M§	2.0m	♦J	40	40	4.0		.10uØ	10Ø	4.0mØ	70 †#				.8pt	DPLØ	R97a		
96	D2T918*	200m	600M§Δ	1.3m	§	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	20 †Δ				2.0pØ	*Ø	TO76		
97	EN918	200m	600M§Δ	2.0m	♦J	30	15	3.0	50m	50n	1.0Ø	3.0 Ø	20 †Δ#				1.7p	PE	TO106		A
98#	ME3001	200m	600M§Δ	1.6m	§J	30	12 *	3.0	100m	200nØ	10Ø	8.0mØ	50 †				1.4p	PEØ	R110c		A
99	MMCM918	200m	600M§Δ	1.1m	§J	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	20 †Δ#				3.0pØ	ANØ	u86		C
100	MRF501	200m	600M§Δ	1.1m	§S	25	15	3.5	50m	50nØ	6.0Ø	1.0mØ	30 †Δ				600f$	Ø	TO72		G
101#	NKT16229	200m	600M§Δ	1.1m	§J	30	15	3.0	50m	.01uØ	10Ø	1.0mØ	20 †Δ				1.8pØ		TO72		GØ
102	RE5001	200m	600M§	2.0m	♦J	40	40	4.0		500nØ	10Ø	4.0mØ	70 †				1.6pØ	PE	TO106		
103	RE5002	200m	600M§	2.0m	♦J	40	40	4.0		500nØ	10Ø	4.0mØ	70 †				1.6pØ	PE	TO106		
104	SE5001	200m	600M§	2.0m	♦J	40	40	4.0		.50uØ	10Ø	4.0mØ	70 †				1.6pØ	PL	TO106		
105	SE5002	200m	600M§	2.0m	♦J	40	40	4.0		.50uØ	10Ø	4.0mØ	70 †				1.6pØ	PL	TO106		
106	SE5003	200m	600M§	2.0m	♦J	40	40	4.0		.50uØ	10Ø	4.0mØ	70 †				1.6pØ	PLØ	TO106		
107	JAN2N2708	200m	700M§Δ	1.1m	§J	35	20 *	3.0	50m	10nØ	15Ø	2.0mØ	30 Δ				1.0p$Ø	Ø	TO72		GØ
108	2N3662	200m	700M§Δ	2.6m	♦S	18	12	3.0	25m	500nØ	10Ø	8.0mØ	20 †Δ				1.7pØ	Ø	TO98		B
109	2N3663	200m	700M§Δ	2.6m	♦S	30	12	3.0	25m	500nØ	10Ø	8.0mØ	20 †Δ				1.7pØ	Ø	TO98		B
110#	BF273C	200m	700M§	2.0m	♦	25	25	4.0	50m	100u§	10Ø	1.0mØ	95 †					PE	TO106		C

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	BF273D	200m	700M§	2.0m	♦		25	25	4.0	50m	100u§	10Ø	1.0mØ	55 †					PE	TO106	C
2#	BF274B	200m	700M§	2.0m	♦		25	25	4.0	50m	100u§	10Ø	1.0mØ	170 †					PE	TO106	C
3#	BF274C	200m	700M§	2.0m	♦		25	25	4.0	50m	100u§	10Ø	1.0mØ	95 †					PE	TO106	C
4#	ZT2708	200m	700M§Δ	1.1m	§J		35	20	3.0		.01uØ	15Ø	2.0mØ	30 Δ				1.5pØ	PL	TO72	
5	2N3478	200m	750M§Δ	1.1m	§S		30	15	2.0		20nØ	8.0Ø	2.0mØ	25 Δ				1.0p$Ø	Ø	TO72	G
6	2N3932	200m	750M§Δ	1.1m	§S		30	20	2.5		10nØ	8.0Ø	2.0mØ	50 Δ				550f$Ø	Ø	R123a	G
7	2N3933	200m	750M§Δ	1.1m	§S		40	30	2.5		10nØ	8.0Ø	2.0mØ	60 Δ				550f$Ø	Ø	R123a	G
8	2N3832†	200m	800M§Δ	1.1m	§S		15	6.0	4.0	35m	10n§	.50Ø	500uØ	20 †Δ				850f$Ø		TO72	G
9♦#	2SC385A	200m	800M§	2.0m	♦J		30	15	3.0	50m	500nØ	3.0Ø	8.0mØ	20 †Δ*				1.5pØ	PE†	R67a	B
10#	2SC397	200m	800M§	1.3m	§J		20	12	2.0	50m	.50uØ	10Ø	8.0m	80				1.9p	PE	TO72	
11#	2SC602	200m	800M§		§J		30	20	3.0	30m	1.0uØ	6.0Ø	5.0m	60				1.3p	PE	TO72	
12#	2SC860	200m	800M§		♦J		15		3.0	30m	1.0u	6.0Ø	1.0mØ	80 †				1.1p	PE	TO104	
13	A492	200m	800M§	1.1m	§J		30	15	2.5	25m	10nØ	1.0Ø	2.0mØ	25 †Δ				2.0p$Ø	PEØ	TO72	G
14	BF152	200m	800M§	2.0m	♦J		30	12	2.0		.10uØ	10Ø	3.0mØ	50 †#				.80pt	DPE	R97a	
15	BF158	200m	800M§	2.0m	♦J		30	12	2.0		.10uØ	10Ø	4.0mØ	50 †#				.80pt	DPEØ	R97a	
16	BF159	200m	800M§	2.0m	♦J		40	20	2.0		.10uØ	10Ø	4.0mØ	50 †#				.80pt	DPEØ	R97a	
17	MRF502	200m	800M§Δ	1.1m	§S		35	15	3.5	50m	20nØ	6.0Ø	1.0mØ	40 †Δ				600f$	Ø	TO72	G
18	SCA3238	200m	800M§	1.1m	§J		45		4.5	50m	20nØ	6.0Ø	1.0mØ	40 †Δ				500f$	PL	TO72	GØ
19	SCA3239	200m	800M§	1.1m	§J		45		4.5	50m	20nØ	6.0Ø	1.0mØ	27 †Δ				500f$	PL	TO72	GØ
20	SCA3240	200m	800M§	1.1m	§J		45		4.5	50m	20nØ	6.0Ø	1.0mØ	27 †Δ				500f$	PL	TO72	GØ
21	2N3600	200m	850M§Δ	1.1m	§S		30	15	3.0		.01uØ	6.0Ø	2.0mØ	200 Ø				1p$Ø	Ø	TO72	AØ
22	2N5179	200m	900M§Δ	1.1m	§S		20	12	2.5	50m	20nØ	6.0Ø	2.0mØ	25 Δ				1.0p$Ø	Ø	TO72	G
23#	2SC251	200m	900M§	1.6m	§J		30	15	3.0	30m	1.0uØ	6.0Ø	5.0m	50				1.0p	PEØ	TO72	G
24#	2SC251A	200m	900M§		§J		30	15	3.0	30m	1.0uØ	6.0Ø	5.0m	50				1.0p	PE	TO72	
25#	2SC252	200m	900M§	1.6m	§J		30	15	3.0	30m	1.0uØ	6.0Ø	5.0m	50				1.0p	PE	TO72	G
26#	2SC253	200m	900M§	1.6m	§J		30	15	3.0	30m	1.0uØ	6.0Ø	5.0m	50				1.0p	PEØ	TO72	G
27#	BFX73	200m	900M§	1.1m	§J		30	15	3.0	50m	10nØ	1.0Ø	3.0 Ø	50 †#				1.0p	DPEØ	TO72	G
28	CS4001	200m	900M§	2.0m	♦J		30	12	2.0		50nØ	10Ø	8.0mØ	50 †	18u	2.7k	1.5	1.3p	EØ	TO106	A
29#	ME3002	200m	900M§Δ	1.6m	§J		30	12 *	3.0	100m	200nØ	10Ø	8.0mØ	50 †				1.3p	PEØ	R110c	A
30#	ME3011	200m	900M§	1.6m	§J		30	12 *	2.0	100m	500nØ	10Ø	8.0mØ	50 †				1.4p	PLØ	R110c	A
31	RE3001	200m	900M§	2.0m	♦J		30	12	2.0		500nØ	10Ø	8.0mØ	50 †#				1.7pØ	PE	TO106	
32	RE3002	200m	900M§	2.0m	♦J		30	12	2.0		500nØ	10Ø	8.0mØ	50 †#				1.7pØ	PE	TO106	
33	SCA3022	200m	900M§	1.1m	§J		35	25	2.0	50m	20nØ							700f$Ø	PE	TO72	GØ
34	SE3001	200m	900M§	2.0m	♦J		30	12	2.0		.50uØ	10Ø	8.0mØ	50 †#				1.7pØ	DPL†	TO106	
35	SE3002	200m	900M§	2.0m	♦J		30	12	2.0		.50uØ	10Ø	8.0mØ	50 †#				1.7pØ	DPL†	TO106	
36	JAN2N2857	200m	1.0G§Δ	1.1m	§A		30	15	3.0	40m	10nØ	6.0Ø	2.0mØ	50 Δ				1.0p$Ø	Ø	TO72	GØ
37	2N3572	200m	1.0G§Δ	1.1m	§S		25	13	3.0	50m	.01uØ	6.0Ø	5.0mØ	20 Δ					PEØ	TO72	G
38	2N3681	200m	1.0G§Δ	1.1m	§J		10	7.0	2.0	25m	.01uØ	6.0Ø	2.0mØ	20 Δ				.7pØ	†	TO72	G
39	2N3683	200m	1.0G§Δ	1.1m	§S		30	12	2.0	30m	50nØ	10Ø	8.0mØ	30 Δ				2.0pØ	Ø	TO72	G
40	2N5031	200m	1.0G§Δ	1.1m	§S		15	10	3.0	20m	10nØ	6.0Ø	1.0mØ	25 †Δ				1.5p$Ø	Ø	TO72	GØ
41	2N5032	200m	1.0G§Δ	1.1m	§S		15	10	3.0	20m	10nØ	6.0Ø	1.0mØ	25 †Δ				1.5p$Ø	Ø	TO72	GØ
42	2N6389	200m	1.0G§Δ	1.1m	§S		20	12	2.5	40m	20nØ	1.0Ø	3.0mØ	25 Δ				550f$Ø		TO72	G
43#	2SC567	200m	1.0G§		§J		30	15	3.0	20m	.10uØ	6.0Ø	2.0m	40 Δ				1pØ	PE	TO72	
44#	2SC611	200m	1.0G§	1.6mØ			20	15 Ø	3.0	20m	1.0uØ	10Ø	2.0m	80				2pØ	PE	TO72	
45	40294	200m	1.0G§Δ	1.1m	§J		30	15	2.5	40m	.01uØ	1.0Ø	3.0mØ	150 †Ø				1p$Ø	DPEØ	TO72	
46	A490	200m	1.0G§Δ	1.1m	§J		30	15	2.5	25m	10nØ	1.0Ø	15mØ	20 Δ†				1.5p$	PEØ	TO72	G
47#	BF497	200m	1.0G§	2.0m	♦J		40	25	4.0		100u	10Ø	7.0mØ	40 †				350ft	PE	TO106	
48	BFX89	200m	1.0G§	1.1m	§J			15	2.5	25m	10mØ	1.0Ø	2.0mØ	20 †Δ				1.7p$Ø	PEØ	TO72	G
49#	BFY90Δ	200m	1.0G§Δ		§J		30	15	2.5	25m	10nØ	1.0Ø	2.0mØ	25 †Δ				800pt†Ø	PLØ	TO72	G
50#	BFY90Ø	200m	1.0G§Δ	1.1m	§J		30	15	2.5	20m	10nØ	6.0Ø	2.0mØ	50 Δ				1.8p	PE	TO18	
51	K2109	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
52	K2110	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
53	K2111	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
54	K2112	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
55	K2113	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
56	K2114	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
57	K2115	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
58	K2116	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
59	K2117	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
60	K2118	200m	1.0G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
61	K2119	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
62	K2120	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
63	K2121	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
64	K2122	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
65	K2123	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
66	K2124	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
67	K2125	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
68	K2126	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
69	K2127	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO72	G
70	K2601C	200mØ	1.0G§	2.0m	#J		20	10	2.0	20m	.10uØ	1.0Ø	3.0mØ	50 †				2pØ		u35	
71	K2602C	200mØ	1.0G§	2.0m	#J		20	10	2.0	20m	.10uØ	1.0Ø	3.0mØ	50 †				2pØ		u35	
72	K2603C	200mØ	1.0G§	2.0m	#J		20	10	2.0	20m	.10uØ	1.0Ø	3.0mØ	50 †				2pØ		u35	
73	K2604C	200mØ	1.0G§	2.0m	#J		20	10	2.0	20m	.10uØ	1.0Ø	3.0mØ	50 †				2pØ		u35	
74	K2615	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO72	G
75	K2616	200m	1.0G§	1.1m	§J		30	12	2.0		300nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO72	G
76	MM8006	200m	1.0G§Δ	1.1m	§J		15	10	3.0	20m	10nØ	6.0Ø	1.0mØ	25 †Δ				1.1p$	Ø	TO72	G
77	MM8007	200m	1.0G§Δ	1.1m	§J		15	10	3.0	20m	10nØ	6.0Ø	1.0mØ	25 †Δ				1.1p$	Ø	TO72	G
78	SCA3235	200m	1.0G§	1.1m	§J		45		4.5	50m	20nØ	6.0Ø	1.0mØ	40 †Δ				500f$	PL	TO72	GØ
79	SCA3236	200m	1.0G§	1.1m	§J		45		4.5	50m	20nØ	6.0Ø	1.0mØ	40 †Δ				500f$	PL	TO72	GØ
80	SCA3237	200m	1.0G§	1.1m	§J		45		4.5	50m	20nØ	6.0Ø	1.0mØ	27 †Δ				750f$	PL	TO72	GØ
81	SCA3243	200m	1.0G§	1.1m	§J		45	45	4.5	50m	20nØ	6.0Ø	1.0mØ	170 †Ø				600f$	PL	TO72	GØ
82	SCA3244	200m	1.0G§	1.1m	§J		45	45	4.5	50m	20nØ	6.0Ø	1.0mØ	170 †Ø				600f$	PL	TO72	GØ
83	SCA3246	200m	1.0G§	1.1m	§J		45	45	4.5	50m	20nØ	6.0Ø	1.0mØ	90 †Ø				600f$	PL	TO72	GØ
84	SE5035	200m	1.0G§	1.3m	§A		40	30 Ø	4.0		50nØ	10Ø	5.0mØ	80 †				220f$	DPEØ	TO72	J
85#	ZT2857	200m	1.0G§Δ	1.1m	§J		30	15	2.5	20m	.01uØ	6.0Ø	2.0mØ	50 Δ				1.8pØ	PLØ	TO72	
86#	ZTX325	200m	1.0G§Δ	1.3m	§J		30	15	2.5	50m#	10nØ	1.0Ø	2.0mØ	25 †Δ				800ft†Ø	PLØ	X59	F
87#	ZTX326	200m	1.0G§Δ	1.3m	§J		25	12	2.5	50m#	1.0uØ	1.0Ø	2.0mØ	25 †Δ				800ft†Ø	PLØ	X59	F
88#	2SC313	200m	1.1G§	1.2m	§J		30	19	2.0	50m	.50uØ	10Ø	10mØ	40 †				1.0p	PE	R92b	H
89#	2SC684	200m	1.1G§				30	19	2.0	50m	.50u	10Ø	10mØ	40 †				1.1p	PE		
90#	2SC717	200m	1.1G§				30	19	2.0	50m	500u	10Ø	10mØ	11				1.0p	PE		
91	A485	200m	1.1G§	1.1m	§J		30	15	2.5	25m	10nØ	1.0Ø	2.0mØ	150 †Ø				1.5p$Ø	PEØ	TO72	G
92	2N2708	200m	1.2G§Ø	1.1m	§S		35	20	3.0		.01uØ	15Ø	2.0mØ	180 Ø				1p$Ø		TO72	G
93	2N3571	200m	1.2G§Δ	1.1m	§S		25	15	3.0	50m	.01uØ	6.0Ø	5.0mØ	20 Δ					PEØ	TO72	G
94	2N3880	200m	1.2G§Δ	1.1m	§S		30	15	2.5		.05uØ	6.0Ø	3.0mØ	50 Δ				.75pØ	Ø	TO72	G
95	2N6305	200m	1.2G§Δ	1.1m	§S		30	15	3.5	50m	10nØ	5.0Ø	2.0mØ	25 Δ				1.0p$Ø	Ø	TO72	G
96♦#	2SC387A	200m	1.2G§	2.0m	♦J		30	15	3.0	50m	500nØ	3.0Ø	8.0mØ	20 †Δ*				1.5pØ	PE†	R67a	B
97#	2SC1215	200m	1.2G§	2.0m	♦J		30	20	3.0	50m	100u	10	2.0m	25 †Δ				1.0pt	PE	TO92	B
98	SCA3021	200m	1.2G§	1.1m	§J		30	20	2.0	50m	20nØ							700f$Ø	PE	TO72	GØ
99	SCA3023	200m	1.2G§	1.1m	§J		35	25	2.0	50m	20nØ							700f$Ø	PE	TO72	GØ
100	SCA3242	200m	1.2G§	1.1m	§J		45	45	4.5	50m	20nØ	6.0Ø	1.0mØ	170 †Ø				600f$	PL	TO72	GØ
101	SCA3245	200m	1.2G§	1.1m	§J		45	45	4.5	50m	20nØ	6.0Ø	1.0mØ	275 †Ø				600f$	PL	TO72	GØ
102	2N3953	200m	1.3G§Δ	1.1m	§S		15		2.5	30m	.10uØ	6.0Ø	2.0mØ	40 Δ				1.8pØ	Ø	TO72	G
103	2N5024	200m	1.3G§Δ	1.1m	§J		20	10	4.0	15m	.10u#	1.0Ø	10m	25 †Δ				1.5p$	Δ	TO72	G
104	2N5053	200m	1.3G§Δ	1.1m	§S		30	15	3.0	25m	.01uØ	5.0Ø	2.0mØ	25 Δ				1p$Ø	Ø	TO72	GØ
105#	2SC568	200m	1.3G§		§J		30	15 Ø	3.0	20m	.50uØ	6.0Ø	2.0m	80				.65p	PE	TO72	G
106#	2SC612	200m	1.3G§	1.3mØ			35	15 Ø	2.0	20m	1.0uØ	10Ø	2.0m	80				2pØ	PE	TO72	
107	2N6304	200m	1.4G§Δ	1.1m	§S		30	15	3.5	50m	10nØ	5.0Ø	2.0mØ	25 Δ				1.0p$Ø	Ø	TO72	G
108	K2109A	200m	1.4G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
109	K2110A	200m	1.4G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G
110	K2111A	200m	1.4G§	1.1m	§J		30	15	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO72	G

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Jcbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	K2112A	200m	1.4G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
2	K2113A	200m	1.4G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
3	K2114A	200m	1.4G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
4	K2115A	200m	1.4G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
5	K2116A	200m	1.4G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
6	K2117A	200m	1.4G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
7	K2118A	200m	1.4G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
8	K2119A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
9	K2120A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
10	K2121A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
11	K2122A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
12	K2123A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
13	K2124A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
14	K2125A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
15	K2126A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
16	K2127A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
17	K2615A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.5p☑		TO72	G
18	K2616A	200m	1.4G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.5p☑		TO72	G
19	2N3570	200m	1.5G§△	1.1m	§S	30	15	3.0	50m	.01uØ	6.0Ø	5.0mØ	20 △					PEØ	TO72	G
20	2N5054	200m	1.5G§△	1.1m	§S	30	15	3.0	25m	.01uØ	5.0Ø	2.0mØ	25 △				1p$☑	Ø	TO72	
21	TIXS10	200m	1.5G§	1.1m	§S	25	13	3.0	50m	.01u	6.0Ø	5.0mØ	20 △				1.7p☑	PE	u26	F
22	2N4934	200m	1.6G§☑	1.1m	§S	40	30	3.0		.01uØ	8.0Ø	2.0mØ	170 †☑				.25p$	Ø	TO104	J
23	2N4935	200m	1.6G§☑	1.1m	§S	50	40	3.0		.01uØ	8.0Ø	2.0mØ	200 †☑				.25p$	Ø	TO104	J
24	2N4936	200m	1.6G§☑	1.1m	§S	50	40	3.0		.01uØ	8.0Ø	2.0mØ	250 †☑				.25p$	Ø	TO104	J
25	K5001	200m	1.6G§	1.1m	§J	25	12	2.5	20m	.05uØ	1.0Ø	3.0mØ	100 †				1p☑	Ø	TO72	G
26	K5002	200m	1.6G§	1.1m	§J	25	12	2.5	20m	.05uØ	1.0Ø	3.0mØ	100 †				1p☑	Ø	TO72	G
27	K5003	200m	1.6G§	1.1m	§J	25	12	2.5	20m	.05uØ	1.0Ø	3.0mØ	100 †				1p☑	Ø	TO72	G
28	K2109B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
29	K2110B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
30	K2111B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
31	K2112B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
32	K2113B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
33	K2114B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
34	K2115B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
35	K2116B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
36	K2117B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
37	K2118B	200m	1.7G§	1.1m	§J	30	15	2.5		10nØ	1.0Ø	3.0mØ	30 △				1.0p☑	Ø	TO72	G
38	K2119B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
39	K2120B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
40	K2121B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
41	K2122B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
42	K2123B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
43	K2124B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
44	K2125B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
45	K2126B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
46	K2127B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.0p☑	Ø	TO72	G
47	K2615B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.5p☑		TO72	G
48	K2616B	200m	1.7G§	1.1m	§J	30	12	2.0		300nØ	1.0Ø	3.0mØ	20 △				1.5p☑		TO72	G
49	2N2857	200m	1.9G§☑	1.1m	§S	30	15	2.5	40m	.01uØ	6.0Ø	2.0mØ	50 △				1p$☑	Ø	TO72	G
50	2N3839	200m	2.0G§☑	1.1m	§S	30	15	2.5	40m	.01uØ	1.0Ø	3.0mØ	30 †△				1p☑	Ø	TO72	G
51	MMT8015	200m	2.0G§	2.0m	†J	15	10	3.0	20m	10nØ	6.0Ø	1.0mØ	25 †△				500f	Ø	u43	C
52	2N5835	200m	2.5G§△	1.1m	§S	15	10	3.5	15m	10nØ	6.0Ø	10mØ	25 †△				800f$☑	△	TO72	AØ
53▼	40915	200mØ	2.9G§	1.1m	§J	35	15	3.5	40m	20n♦	10Ø	3.0mØ	20 †△				1.0p☑	PE	TO72	G
54#	BFW99	200m☑	3.0G§	1.4m	§J		12	3.5	20m	50nØ	6.0Ø	5.0mØ	25 †△				1.1p	PEØ	TO72	J
55	AT0017	200m	3.5G§	1.1m	§J	20	12	3.0	100m	10nØ	10Ø	5.0mØ	75 †				800f$	PEØ	R96	G
56	AT0025	200m	3.5G§	1.1m	§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$☑	PEØ	R96	G
57	AT0025A	200m	3.5G§	1.1m	§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$☑	PEØ	R96	G
58	AT0045	200m	3.5G§	1.1m	§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$☑	PEØ	R96	G
59▼#	BFT66	200m§	4.0G§	1.4m	§J	20	15	3.0	30m	50nØ	6.0Ø	10mØ	30 †△				600f$	PEØ	TO72	J
60▼#	BFT67	200m§	4.0G§	1.4m	§J	20	15	3.0	30m	50nØ	6.0Ø	10mØ	30 †△				600f$	PEØ	TO72	J
61#	DC5001	200m	4.0G§	1.6m	§J	20	15	4.0	20m	500nØ			40				450f	PLØ	MM16	R
62#	BFR34A	200m	4.2G§	1.5m	♦J		12	3.5	30m	50n	6.0Ø	5.0mØ	70				750f$	PEØ	u123	E
63#	BFR35A	200m	4.2G§	1.2m	♦J		12	3.5	30m	50n	6.0Ø	5.0mØ	70				700f$	PEØ	u56a	A
64#	2SC1193	200m	4.5G§		§J	20	15	2.0	30m	100nØ	10Ø	10mØ	70 †				1.0p☑	PE		
65#	2SC1236	200m	6.5G§		§J	20	15	2.0	30m	100nØ	10Ø	10mØ	70 †				1.0p☑	PE		
66#	2SC1551	200m	6.5G§		§J	20	15	2.0	30m	100nØ	10Ø	10mØ	70 †				1.0p☑	EP	X140	C
67▼	AT4641	200mØ	8.0G§	1.1m	§J	20	12	1.5	50m	20nØ	10Ø	5.0mØ	75 †				500f$☑	PEØ	u137	C
68#	V914	200m	8.0G§	1.1m	§J	15	10	3.0	30m	100nØ	8.0Ø	10mØ	80 †				300f$	E	u111	S
69#	BFY85A*	210m*	50M§△	2.6m	♦J	45	45	5.0	100m	100u	5.0Ø	100uØ	100 †△				8.0p☑	PE	L2t	
70#	BFY85B*	210m*	50M§△	2.6m	♦J	45	45	5.0	100m	100u	5.0Ø	100uØ	180 †△				8.0p☑	PE	L2t	
71#	BFY86A*	210m*	50M§△	2.6m	♦J	45	45	5.0	100m	100u	5.0Ø	100uØ	100 †△				8.0p☑	PE	L2t	
72#	BFY86B*	210m*	50M§△	2.6m	♦J	45	45	5.0	100m	100u	5.0Ø	100uØ	180 †△				8.0p☑	PE	L2t	
73#	BSW19†	215m*	300M§△	1.7m	§J	35	30	5.0	100m	.05uØ	1.0Ø	10mØ	40 †△				6p☑	PE	TO18	AØ
74	2N5136	220m	40M§△	2.2m	♦J	30	20	3.0	500m	.10uØ	1.0Ø	150mØ	20 †#△				35p$		TO105	A
75	EN870	220m	50M§△	2.1m	♦J	100	60	7.0		100nØ	5.0Ø	1.0mØ	175 △	500nØb	30 ☑	1.3 ☑	20p☑	DPL	TO106	A
76	2N4944	220m	60M§△	2.2m	♦J	80	40	5.0	500m	.05uØ	1.0Ø	150mØ	40 †#△				25p$		TO106	A
77	2N4945	220m	60M§△	2.2m	♦J	80	60	5.0	500m	.05uØ	1.0Ø	150mØ	40 †#△				20p$		TO106	A
78	2N4946	220m	60M§△	2.2m	♦J	80	40	5.0	500m	.05uØ	1.0Ø	150mØ	100 †△				25p$		TO106	A
79	EN718A	220m	60M§△	2.1m	♦J	75	40 *☑	7.0		50nØ	5.0Ø	1.0mØ	25 △	500nØb	34 ☑	5.0 ☑	25p☑	DPL	TO106	A
80	EN871	220m	60M§△	2.1m	♦J	100	60	7.0		100nØ	5.0Ø	1.0mØ	400 △	500nØb	30 ☑	5.0 ☑	20p☑	DPL	TO105	A
81	EN956	220m	70M§△	2.1m	♦J	75	40 *☑	7.0		50nØ	5.0Ø	1.0mØ	50 △	500nØb	34 ☑	5.0 ☑	25p☑	DPL	TO106	A
82#	BSV86†	220m#	100M§△	2.2m	§J	75	30	7.0	400m	100nØ	10Ø	10mØ	75 †△				25p$☑	PE	MM13	F
83#	BSV87†	220m#	100M§△	2.2m	§J	75	30	7.0	400m	100nØ	10Ø	10mØ	35 †△				25p$☑	PE	MM13	F
84#	BSV88†	220m#	100M§△	2.2m	§J	60	25	5.0	400m	100nØ	10Ø	10mØ	35 †△				25p$☑	PE	MM13	F
85#	BF195	220m	200M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †				950f†	PEØ†	MM10	C
86#	BF255△	220m	200M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †				850f†	PEØ	TO92	C
87#	BF333	220m	200M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †					PEØ†	MM10	C
88#	PL4051†	220m	250M§△	1.5m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	12 †△				8p☑	PE	u51	
89#	PL4052†	220m	250M§△	1.5m	§S	75	40	6.0	800m	10nØ	10Ø	1.0mØ	30 △				8p☑	PEØ	u51	
90#	PL4053†	220m	250M§△	1.5m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	25 †△				8p☑	PE	u51	
91#	PL4055†	220m	250M§△	1.5m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †△				8p☑	PE	u51	
92#	BF194	220m	260M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				950f†	PEØ†	MM10	C
93#	BF254△	220m	260M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				850f†	PEØ	TO92	C
94#	BF332	220m	260M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †					PEØ†	MM10	C
95#	PL4054†	220m	300M§△	1.5m	§S	75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 △				8p☑	PEØ	u51	
96	SE6022†	220m	400M§	2.2m	♦J	60	60	6.5	1	.10uØ	10Ø	1.0mØ	100 †				11p$	DPE△	TO106	A
97	SE6023†	220m	400M§	2.2m	♦J	80	80	6.5	1	.10uØ	10Ø	1.0mØ	120 †				11p$	DPE△	TO106	A
98	MMT70	225m		2.0m	†J	25	20	5.0	50m	50nØ	5.0Ø	2.0mØ	150 †△				8.0p☑	ANØ	u43	C
99	MMT76†	225m		2.0m	†J	30	20	5.0	200m	100nØ	1.0Ø	50mØ	30 †△				5.0p☑	ANØ	u43	C
100#	BC429	225m	.50M	2.2m	§J	60	60	30	50m	.10uØ	6.0Ø	1.0mØ	10 △	30u	1.0k	3.0	45p	AØ	TO5	
101	MMT930	225m	60M§△	2.0m	†J	60	45	6.0	50m	10nØ	5.0Ø	1.0mØ	150 †△				6p☑	ANTØ	u43	D
102	MMT2484	225m	60M§△	2.0m	†J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	250 †△				6p☑	ANTØ	u43	D
103#	2SC28	225m	100M	1.8m	§J	40			50m	1.0uØ	10Ø	10m	30				4.0p	ME	TO5	
104#	BCW82	225m	150M§△	1.8m	§S	60	50	6.0	200m	15nØ	5.0Ø	2.0mØ	125 △				3.0p	PE†	u94	D
105#	BCW82A	225m	150M§△	1.8m	§S	60	50	6.0	200m	15nØ	5.0Ø	2.0mØ	260 ☑				3.0p	PE†	u94	D
106#	BCW82B	225m	150M§△	1.8m	§S	60	50	6.0	200m	15nØ	5.0Ø	2.0mØ	240 △				3.0p	PE†	u94	D
107#	BCW83	225m	150M§△	1.8m	§S	45	30	6.0	200m	15nØ	5.0Ø	2.0mØ	125 △				3.0p	PE†	u94	D
108#	BCW83A	225m	150M§△	1.8m	§S	45	30	6.0	200m	15nØ	5.0Ø	2.0mØ	260 ☑				3.0p	PE†	u94	D
109#	BCW83B	225m	150M§△	1.8m	§S	45	30	6.0	200m	15nØ	5.0Ø	2.0mØ	240 △				3.0p	PE†	u94	D
110#	BCW83C	225m	150M§△	1.8m	§S	45	30	6.0	200m	15nØ	5.0Ø	2.0mØ	450 △				3.0p	PE†	u94	D

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LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1#	BCW84	225m	150M§△	1.8m	$S	45	30	6.0	200m	15nØ	5.0Ø	2.0mØ	240 △				3.0p	PE†	u94	D
2#	BCW84B	225m	150M§△	1.8m	$S	45	30	6.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				3.0p	PE†	u94	D
3#	BCW84C	225m	150M§△	1.8m	$S	45	30	6.0	200m	15nØ	5.0Ø	2.0mØ	450 △				3.0p	PE†	u94	D
4	MMT3903†	225m	250M§△	2.0m	†J	60	40	6.0	200m	.05uØ	10Ø	1.0mØ	100	10u	3.0k	2.0	4p☑	ANØ	u23c	F
5	MMT3904†	225m	300M§△	2.0m	†J	60	40	6.0	200m	.05uØ	10Ø	1.0mØ	200	10u	3.0k	2.0	4p☑	ANØ	u23c	F
6♦	MMT2222†	225m	340M§	1.8m	$J	60	30 *	5.0	300m	50nØ	10Ø	1.0 Ø	50 †△#				3.5p	AN	u43a	C
7	MMT3014†	225m	350M§△	2.0m	†J	40	20	5.0	200m	100nØ	.40Ø	30mØ	50 †△#				5.0p☑	AN△	u43	D
8	MMT72†	225m	400M§△	2.0m	†J		10	4.0	200m	100n	2.0Ø	10mØ	30 †△				6.0p☑	AN	u43	C
9	MMT2369†	225m	500M§△	2.0m	†J	40	15	4.5	200m	100nØ	1.0Ø	10mØ	40 †△#				4.0p☑	AN	u43	D
10	MMT918	225m	600M§△	2.0m	†J	30	15	3.0	50m	.01uØ	1.0Ø	3.0mØ	20 †#△				3p☑	ANØ	u43	D
11	MMT74	225m	1.0G§	2.0m	†J	20	12	3.0	40m	100nØ	1.0Ø	3.0mØ	25 †△				1.0p	ANØ	u43	C
12	MMT2857	225m	1.3G§△	2.0m	†J	30	15	3.0	40m	50nØ	1.0Ø	3.0mØ	30 †△				1p$☑	ANT Ø	u43	D
13	MMT3960†	225m	2.0G§	2.0m	†J	5.0	3.0	3.0		100nØ	1.0Ø	10mØ	100 †#△				1.3p	AN	u43	D
14	MMT3960A†	225m	2.0G§	2.0m	†J	15	8.0	3.0		50nØ	1.0Ø	10mØ	30 †△#				1.3p	AN	u43	D
15	MMT806	225m	2.1G§	2.0m	†J	8.0	5.0			10nΔ	1.0Ø	1.0uØ	150 †				330f	ANΔ	u43	C
16	MMT807	225m	2.1G§	2.0m	†J	8.0	5.0			10nΔ	1.0Ø	10uØ	125 †				340f	ANØ	u43	C
17#	BFW70	240m	750MΔ§	1.6m	$J	30	30	4.0			10Ø	10mØ	75 †#				.3p☑†			
18#	BF271	240m	1.0G§	1.6m	$J	40	40	4.0	30m	50n§	15Ø	10mØ	55 †△				1.5p	DPE	TO72	
19#	BFS55	240m*	3.3G§	1.4m	$J		15	3.5	50m	50nØ	5.0Ø	50mØ	30 †△				500ft	PE	TO72	J
20	2N1990R	250m		2.0m	$S	100		3.0		1u#Ø	.50Ø	2.0mØ	25 △					PL	TO18	AØ
21	2N2617	250m		2.0m	$S	25		20	100m	100nØ	6.0Ø	1.0mØ	25 △		3.0k☑				R8	A
22#	2SC815	250m		2.5m	♦J	60	45	5.0	200m	200nØ	10Ø	10mØ	80 †						TO92	B
23#	2SC828	250m		2.5m	♦J	30	30	5.0	50m		5.0	2.0m	65 †△					PEØ	TO92	B
24#	2SC828A	250m		2.5m	♦J	45	45	5.0	50m		5.0	2.0m	65 †△					PEØ	TO92	B
25#	2SC900	250m			♦J	30	25	5.0	20m	50n	3.0Ø	500uØ	250 †	20u	40	2.5		PE	TO92	B
26#	2SC923	250m			♦J	30	25	5.0	20m	50n	3.0Ø	500uØ	250 †	20u	40	2.5		PE	TO92	B
27#	2SD227	250m			$J	30	15	5.0	300m	100n	1.0Ø	300mØ	120 †					PE	TO92	B
28#	BC254	250m		2.0m	$S	100	55	6.0	30m	100nØ	5.0Ø	1.0mØ	45 △					PL†	TO92	B
29#	BSW32	250m		2.0m	$S	100	80	6.0	30m	1.0u	5.0Ø	10mØ	40 †△					PL	TO92	
30#	BSW70	250m		1.7m	$J	100	60	5.0	50m	10u#	5.0Ø	2.0mØ	50 †△					PE	TO18	AØ
31	GET3562	250m		2.0m	♦J	30	12	2.0	50m	50n	10Ø	8.0mØ	20 †△				1.7p$☑	PE	X55a	B
32	2N619	250m	200k△	540u	$S	50	40	30	50m	100nØ	1.5Ø	5.0mØ	9.0 †△				22p☑		TO5	A
33	2N620	250m	250k△	540u	$S	50	35	30	50m	100nØ	1.5Ø	5.0mØ	18 †△				22p☑		TO5	A
34	2N621	250m	300k△	540u	$S	50	30	30	50m	100nØ	1.5Ø	5.0mØ	36 †△				22p☑		TO5	A
35	TIS108	250m	3.5M§△	2.0m	$S	40	30 ☑*	4.0	50m	50nØ	10Ø	4.0mØ	25 △†				400ft☑	PL†Ø	X55	C
36	2N339A	250m$	10M§△	3.0m	$S	60	60	3.0	150m	200uØ	5.0	1.0m	15 △	2.0u☑b	30 ☑	3.0	50p☑		TO11	A
37	2N340A	250m$	10M§△	3.0m	$S	85	85	3.0	150m	200uØ	5.0	1.0m	15 △	2.0u☑b	30 ☑	3.0	50p☑		TO11	A
38	2N341A	250m$	10M§△	3.0m	$S	125	125	3.0	150m	200uØ	5.0	1.0m	15 △	2.0u☑b	30 ☑	3.0	50p☑		TO11	A
39	2N3043*	250m	30M§△	1.6m	$S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	100u☑	19k☑		8.0p☑	*Ø	L2f	
40	2N3044*	250m	30M§△	1.6m	$S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	100u☑	19k☑		8.0p☑	*Ø	L2f	
41	2N3045	250m	30M§△	1.6m	$S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	100u☑	19k☑		8.0p☑	*Ø	L2f	
42	2N3046*	250m	30M§△	1.6m	$S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	70u☑	13k☑		8.0p☑	*Ø	L2f	
43	2N3047*	250m	30M§△	1.6m	$S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	70u☑	13k☑		8.0p☑	*Ø	L2f	
44	2N3048	250m	30M§△	1.6m	$S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	70u☑	13k☑		8.0p☑	*Ø	L2f	
45#	SC147A	250m	30M§	2.0m	$A	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△					DPE	u29	A
46#	SC147B	250m	30M§	2.0m	$A	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△					DPE	u29	A
47#	SC148	250m	30M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †△					DPE	u29	A
48#	SC148A	250m	30M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△					DPE	u29	A
49#	SC148B	250m	30M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△					DPE	u29	A
50#	SC148C	250m	30M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †△					DPE	u29	A
51#	SC149	250m	30M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	220 †△					DPE	u29	A
52#	SC149B	250m	30M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△					DPE	u29	A
53#	SC149C	250m	30M§	2.0m	$A	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †△					DPE	u29	A
54#	SC174	250m	30M§	2.0m	$A	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△					DPE	u29	A
55#	SC174A	250m	30M§	2.0m	$A	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△					DPE	u29	A
56#	SC174B	250m	30M§	2.0m	$A	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△					DPE	u29	A
57#	ZTX330	250m	30MΔ§	2.5m	♦A	30	30	5.0	500m	200n	5.0Ø	100uØ	60 △				8.0p	PLØ	X59	F
58#	ZTX331	250m	30MΔ§	2.5m	♦A	45	45	5.0	500m	200n	5.0Ø	1.0mØ	60 △				8.0p	PLØ	X59	F
59	2N4286	250m	40M§△	2.0m	$S	30	25	6.0	100m	50nØ	5.0Ø	1.0m	60 △	10u☑b	40 ☑	1.2 ☑	6.0p☑		u29	B
60	2N4287	250m	40M§△	2.0m	$S	45	45	7.0	100m	10nØ	5.0Ø	1.0m	60 △	10u☑b	40 ☑	1.2 ☑	6.0p☑	Ø	u29	B
61#	ME4001	250m	40M§△	2.0m	$J	30	25 *	8.0		50nØ	10Ø	1.0mØ	60 †△				3.0p☑	PE	R110c	A
62	2N2981*	250m	50M§△	1.4m	$J	100	60	7.0	500m	.01uØ	5.0Ø	1.0mØ	40 △	30u☑	6k☑		15p☑	*	L2j	
63	2N2982*	250m	50M§△	1.4m	$J	100	60	7.0	500m	.01uØ	5.0Ø	1.0mØ	40 △	30u☑	6k☑		15p☑	*	L2j	
64	2N2972	250m	60M§△	1.4m	$J	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
65	2N2973	250m	60M§△	1.4m	$J	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
66	2N2974*	250m	60M§△	1.4m	$J	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
67	2N2975*	250m	60M§△	1.4m	$J	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
68	2N2976*	250m	60M§△	1.4m	$J	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
69	2N2977*	250m	60M§△	1.4m	$J	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
70	2N2978*	250m	60M§△	1.4m	$J	60	60	6.0	30m	2.0nØ	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
71	2N2979*	250m	60M§△	1.4m	$J	60	60	6.0	30m	2.0nØ	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		6.0p☑	*	L2j	
72	2N2980*	250m	60M§△	1.4m	$J	100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	50 †△	20u☑	5.0k☑		15p☑	*	L2j	
73#	ME4002	250m	60M§△	2.0m	$J	30	25 *	8.0		50nØ	10Ø	1.0mØ	200 †△				3.0p☑	PE	R110c	A
74#	ME4003	250m	60M§△	2.0m	$J	30	25 *	8.0		50nØ	10Ø	1.0mØ	300 †△				3.0p☑	PE	R110c	A
75	2N3793	250m	100M§△	2.5m	♦S	40	20	5.0	500m	.50uØ	10Ø	1.0mØ	10 †△				10p☑		u29	
76	2N3794	250m	100M§△	2.5m	♦S	40	20	5.0	500m	.50uØ	10Ø	1.0mØ	35 †△				10p☑		u29	
77#	2SC1222	250m	100M§	2.5m	♦J	50	45	5.0	30m	100nØ	3.0Ø	500uØ	400 †					EØ	TO92	B
78#	2SD327	250m	100M§	2.5m	♦J	40	20	5.0	700m	200nØ	1.0Ø	100mØ	140 †					E	TO92	B
79#	2SC368	250m	150M§	1.7m	$J	25	25 §	5.0	100m	.10uØ	10Ø	1.0m	250 †				1.5p	PE	TO18	
80#	2SC829	250m	150M§△	2.5m	♦J	30	20	5.0	30m		10	1.0m	40 †△				1.3p†	PE	TO92	B
81#	2SC1279	250m	150M§	2.5m	♦J	180	160	5.0	50m	100n	3.0Ø	15mØ	100 †				4.5p	E	TO92	B
82	NPC069	250m	150M§	2.5m	$S	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	40 △				6.0p☑		TO92	A
83♥	NPC069-98	250m	150M§	2.5m	$S	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	40 △				12p☑		TO92	A
84#	2SC1280A	250m	180M§	2.5m	♦J	40	30	10	300m	100nØ	2.0Ø	100mØ	12k†△				5.0p	E†	TO92	B
85	2N957	250m	200M§△	2.0m	$J	40	20	5.0		.10uØ	5.0Ø	10mØ	45 †#△				6p☑		TO18	AØ
86	2N3052†	250m	200M§△	1.6m	$S	35	15	5.0	200m	25nØ	1.0Ø	10mØ	25 †△				8.0p☑	*	L2f	
87	2N3825	250m	200M§△	2.5m	$S	30	15	4.0	100m	100nØ	10Ø	2.0mØ	20 †△				3.5p☑	Ø	TO92	B
88#	2SC395A†	250m	200M§△	2.0m	§J	20	12	5.0	400m	1.0uØ	1.0Ø	10mØ	60 †				4.0p	PE	TO18	AØ
89#	2SC714†	250m	200M§	2.5m	♦J	70	40	5.0	200m	.10uØ	6.0Ø	10mØ	60 †#				7.0p	PE†	TO92	D
90#	2SC944†	250m	200M§△	2.5m	♦J	60	40	8.0	100m	100n	10Ø	2.0mØ	60 †△				3.0p☑	PE	TO92	B
91	SE1010	250m	200M§△	2.5m	♦J	30	15	4.0		.50uØ	10Ø	2.0mØ	35 †#				3.5p☑	DPE	TO106	
92	2SC105	250m	250M§	1.7m	§J	30	30 §	5.0	80m	5nØ	1.0Ø	10m	60 †				4.0p	PE	TO18	
93#	2SC619†	250m	250M§	2.5m	♦J	30	25	5.0	200m	1.0uØ	6.0Ø	10mØ	110 †#				7.0p	PE†	TO92	D
94#	2SC620	250m	250M§	2.5m	♦J	50	30	5.0	200m	1.0uØ	6.0Ø	10mØ	90 †#				7.0p	PE†	TO92	D
95#	2SC773	250m	250M§	2.5m	♦J	50	30	5.0	200m	1.0uØ	6.0Ø	10mØ	35 †#△				7.0p	PE†	TO92	D
96#	2SC839	250m	250M§	2.5m	♦J	50	25	5.0	30m	200nØ	3.0Ø	500uØ	75 †				2.5p	Ø	TO92	B
97#	2SC1359	250m	250M§	2.5m	J♦	30	20	5.0	100m#	100n	10	1.0 Ø	220 ☑†				900ft	PE	TO92	B
98#	BC121	250m	250M§	1.0m	$J	5.0	5.0	5.0	75m	10nØ	.50Ø	250uØ	150 *☑				11p☑	PEØ	u32	D
99#	BC122	250m	250M§	1.0m	$J	30	20	5.0	75m	10nØ	.50Ø	250uØ	150 ☑				7.0p☑	PEØ	u32	D
100#	BC123	250m	250M§	1.0m	$J	45	30	5.0	75m	10nØ	.50Ø	250uØ	150 ☑				7.0p☑	PEØ	u32	D
101♥	BC413	250m	250M§	2.5m	♦J	45	30	5.0	100m	15nØ	5.0Ø	2.0mØ	240 △				2.5p	PL	TO106	A
102♥	BC414	250m	250M§	2.5m	♦J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	240 △				2.5p	PL	TO106	A
103#	BF594	250m	260M§	2.0m	$S	35	25	5.0	30m		10Ø	1.0mØ	65 †△				600ft	PEØ	X55c	C
104#	BF595	250m	260M§	2.0m	$S	35	25	5.0	30m		10Ø	1.0mØ	35 †△				600ft	PEØ	X55c	C
105#	2SC400†	250m	300M§	1.7m	§J	30	18	5.0	100m	.50uØ	10Ø	10m	30 †△*				4.0p	PE	TO18	AØ
106#	2SC945	250m	300M§	2.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	200 †				6.0p☑	E	TO92	B
107	BC407	250m	300M§	2.5m	♦J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	110 †△				2.5p$	†	TO106	A
108#	BC407A	250m	300M§	2.5m	♦J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	TO106	A
109#	BC407B	250m	300M§	2.5m	♦J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	TO106	A
110	BC408	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	110 †△				2.5p$	†	TO106	A

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	TYPE No.	MAX. COLL. DISS. @25°C (W)	fab (Hz)	DERATE IN FREE AIR W/°C	T M E M A P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1#	BC408A	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p§	PE	TO106	A
2#	BC408B	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p§	PE	TO106	A
3#	BC408C	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p§	PE	TO106	A
4	BC409	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	200 †Δ				2.5p§	†	TO106	A
5#	BC409B	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p§	PE	TO106	A
6#	BC409C	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p§	PE	TO106	A
7#	ME9021†	250m	300M§Δ	2.0m	$J	40	15 *	5.0		5.0uØ	1.0Ø	10mØ	30 †Δ				6.0pØ	PE	R110c	A
8#	ME9022†	250m	300M§Δ	2.0m	$J	25	12 *	4.0		5.0uØ	1.0Ø	10mØ	30 †Δ				6.0pØ	PE	R110c	A
9#	SC107	250m	300M§	2.0m	$A	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †Δ					DPE	u29	B
10#	SC107A	250m	300M§	2.0m	$A	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †Δ					DPE	u29	B
11#	SC107B	250m	300M§	2.0m	$A	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †Δ					DPE	u29	B
12#	SC108	250m	300M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †Δ					DPE	u29	B
13#	SC108A	250m	300M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †Δ					DPE	u29	B
14#	SC108B	250m	300M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †Δ					DPE	u29	B
15#	SC108C	250m	300M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †Δ					DPE	u29	B
16#	SC109	250m	300M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	220 †Δ					DPEØ	u29	B
17#	SC109B	250m	300M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †Δ					DPEØ	u29	B
18#	SC109C	250m	300M§	2.0m	$A	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †Δ					DPEØ	u29	B
19#	SC147	250m	300M§	2.0m	$A	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †Δ					DPE	u29	A
20	SE5025	250m	300M§Δ	2.5m	♦J	30	30	3.0		.05u	10Ø	10mØ	35 †#				1p†Ø	DPE	R97e	
21	TIS64	250m	300M§Δ	2.0m	$J	30	12	3.0	30m	.10uØ	10Ø	4.0mØ	20 †Δ				2pØ	PL	X55	A
22#	2SC39A	250m	350M§	2.0m	$J	25	15 §	3.0	50m	.10uØ	6.0Ø	3.0m	120				3.0p	PL	TO18	
23#	BF335	250m	370M§	2.5m	♦J	40	30	4.0	25m	10u	10Ø	1.0mØ	35 †Δ	67ub	1.3mb		300f	PEØ	MM10	C
24#	BF196	250m	400M§	2.5m	♦J	40	30	4.0	25m		10Ø	4.0mØ	57 †				200f†Ø	PLØ†	MM10	C
25#	BF198Ø	250m*	400M§	2.4m	$J	40	30	4.0	25m	100n	10Ø	4.0mØ	70 †				220ff	PØ	X64c	C
26#	ME9001†	250m	400M§Δ	2.0m	$J	40	15 *	4.5		300nØ	1.0Ø	10mØ	40 †Δ				4.0pØ	PE	R110c	A
27#	ME9002†	250m	400M§Δ	2.0m	$J	30	12 *	4.5		300nØ	1.0Ø	10mØ	30 †Δ				4.0pØ	PE	R110c	A
28	TIS63	250m	400M§Δ	2.0m	$J	30	12	3.0	50m	100nØ	10Ø	4.0mØ	20 †Δ				2.0 Ø	PL	X55	A
29#	BF334	250m	430M§	2.5m	♦J	40	30	4.0	25m	10u	10Ø	1.0mØ	65 †Δ	2.8ub	60ub		300f	PEØ	MM10	C
30#	BF176	250m	450M§	2.5m	♦J	40	40	4.0		50nØ	10Ø	10mØ	65 †#				1.2p	DPE	R97	
31	TIS125	250m	450M§Δ	2.0m	$S	40	30	4.0	50m	50nØ	10Ø	4.0mØ	30 †Δ					PL	X55	A
32#	2SC39	250m	500M§	2.0m	$J	25	15 §	3.0	50m	.10uØ	6.0Ø	1.0m	50				2.3p	ME	TO18	
33#	BF306	250m	500M§	1.6m	§J	45		5.0	50m		10Ø	7.0m	39 †Δ					PL	TO72	C
34	MD2369AF*	250m	500M§Δ	1.5m	§J	40	15	5.0	500m	.03uØ	1.0Ø	10mØ	40 †Δ#				4pØ	ANΔ	TO89	
35	MD2369F*	250m	500M§Δ	1.5m	§J	40	15	5.0	500m	.03uØ	1.0Ø	10mØ	40 †Δ#				4pØ	ANΔ	TO89	
36	TIS62	250m	500M§Δ	2.0m	$J	30	12	3.0	50m	100nØ	10Ø	4.0mØ	30 †Δ				2pØ	PLØ	X55	A
37#	BF197	250m	550M§	2.5m	♦J	40	25	4.0	25m		10Ø	7.0mØ	88 †				300ff	PE†	MM10	C
38#	BF199Ø	250m*	550M§	2.4m	$J	40	25	4.0	25m	100n	10Ø	7.0mØ	85 †				320ff	PE†	X64c	C
39#	2SC1126	250m	560M§	3.3m	$S	30	15	3.0	50m	200nØ	3.0Ø	1.0mØ	20 †Δ				1.7pØ	E†	TO92	C
40	2N4254	250m	600M§Δ	2.0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	50 †Δ				.7p§	†	TO92	B
41	2N4255	250m	600M§Δ	2.0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	30 †Δ				.7p§	†	TO92	B
42	2N4996	250m	600M§Δ	2.0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	50 †Δ				.7pØ		X55	A
43	2N4997	250m	600M§Δ	2.0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	30 †Δ				.7pØ		X55	A
44	GET3563	250m	600M§Δ	2.0m	$J	30	12	3.0	50m	100nØ	10Ø	4.0mØ	20 †Δ				2.0 Ø	PL	X55	A
45	MD918AF*	250m	600M§Δ	1.5m	§J	30	15	5.0	50m	.01uØ	5.0Ø	1.0mØ	50 †Δ				3pØ	ANØ	TO89	
46	MD918BF*	250m	600M§Δ	1.5m	§J	30	15	5.0	50m	.01uØ	5.0Ø	1.0mØ	50 †Δ				3pØ	ANØ	TO89	
47	MD918F*	250m	600M§Δ	1.5m	§J	30	15	5.0	50m	.01uØ	5.0Ø	1.0mØ	50 †Δ				3pØ	ANØ	TO89	
48#	ME9003†	250m	600M§	2.0m	§J	18	12 *	4.0		1.0uØ	5.0Ø	10mØ	100 †Δ				2.0p	PE	R110c	A
49	TIS18	250m	600M§Δ	2.0m	$J	25	13	3.0	30m	.50uØ	12Ø	10mØ	20 †#Δ				1.7pØ	PL	X20	
50	TIS83	250m	600M§Δ	2.0m	$J	40	25	4.0	50m	.10uØ	10Ø	5.0mØ	30 †Δ#				65p§	PE	TO92	B
51#	ZTX320	250m	600M§	2.5m	♦A	30	15	3.0		200n	1.0Ø	3.0mØ	20 †				3.0pØ	PLØ	X59	F
52#	ZTX321	250m	600M§	2.5m	♦A	30	15	3.0		200n	1.0Ø	3.0mØ	20 †Δ				3.0pØ	PLØ	X59	F
53	TIS84	250m	650M§	2.0m	$S	40	30	4.0	50m	50nØ	10Ø	4.0mØ	30 †Δ					PE†Ø	X55	C
54#	BF329	250m	730M§	2.5m	♦J	40	30	4.0	50m		6.0Ø	1.0mØ	10 †					PE	MM10	C
55#	2SC40	250m	750M§	2.0m	$J	25	15 §	3.0	50m	.10uØ	6.0Ø	1.0m	50				2.3p	ME	TO18	
56	PMT1767	250mØ	750M†		$J	25	15	5.0	200m	.50uØ	3.0Ø	10mØ	5.0				3.5p	DPØ	ZA8	
57#	2SC1044	250m	800M§Δ	1.1m	§J	45	25	4.0	30m	50nØ	6.0Ø	6.0mØ	80 †				800ffØ	E	TO72	G
58#	2SC1254	250m	800M§Δ	1.1m	§J	45	25	4.0	30m	100nØ	6.0Ø	6.0mØ	80 †				800ffØ	E	TO72	G
59	TIS129	250m	800M§Δ	2.0m	$	40	25	4.0	30m	100nØ	10Ø	4.0mØ	60 †Δ				800f$Ø	†	X55	C
60#	BF330	250m	1.0G§	2.5m	♦J	40	25	4.0	25m		10Ø	7.0mØ	38 †Δ					PE	MM10	C
61	2N4251†	250m	1.3G§Δ	1.4m	§J	15	10	4.5	100m	1.0u§	5.0Ø	.10mØ	32 †Δ				2pØ		TO46	AØ
62#	BFR37	250m	1.4G		§	30	30	4.0	50m	100u	15Ø	10uØ	80 Δ				220f	PE	TO72	
63#	2SC1260	250m	1.5G§Δ	1.1m	§J	45	25	4.0	30m	100nØ	6.0Ø	6.0mØ	80 †				700ffØ	E	TO72	G
64#	2SC1275	250m	1.5G§Δ	1.1m	§J	30	14	3.0	50m	50nØ	10Ø	10mØ	80 †				1.5pØ	E	TO72	G
65#	2SC1424	250m	1.5G§Δ	1.1m	§J	30	14	3.0	50m	50nØ	10Ø	10mØ	80 †				1.5pØ	E	TO72	G
66	A430	250m	1.6G§	1.4m	§J	20	10	2.5	50m	50nØ	5.0Ø	25mØ	25 †Δ				.8p†	PEØ	TO72	G
67#	BFW30	250m	1.6G§	1.4m	§J	20	10	2.5	50m	50nØ	5.0Ø	50 Ø	25 †Δ				800n†	PEØ	TO72	GØ
68#	V996	250m	2.5G§Δ	2.0m	§J	20	12	3.0	50m	500nØ	1.0Ø	30mØ	100 †				1.5pØ	E	u111	S
69#	V658	250m	3.0G§	1.4m	§J	20	12	3.0	50m	1.0uØ	5.0Ø	20mØ	100 †				1.2p	PEØ	X89	R
70#	V911	250m	3.3G§Δ	2.0m	§J	20	15	3.0	40m	100nØ	10Ø	15mØ	100 †				1.0pØ	E	u111	S
71	2N5761	250m	3.7G§Δ	2.0m	$S	20	15	3.0	30m	500nØ	10Ø	10mØ	30 †Δ				500f§Ø		X80a	S
72#	2SC1119	250m	3.7G§Δ	1.6m	§J	20	15	3.0	30m	100nØ	10Ø	10mØ	30 †Δ				600ffØ	PE	u78	
73#	2SC1336	250m	3.7G§Δ	2.0m	§J	20	15	3.0	30m	50nØ	10Ø	10mØ	100 †				600ffØ	E	u88	S
74#	V912A	250m	3.7G§Δ	2.0m	§J	20	15	3.0	30m	50nØ	10Ø	10mØ	100 †				600ffØ	E	u111	S
75#	V912B	250m	3.7G§Δ	2.0m	§J	20	15	3.0	30m	50nØ	10Ø	10mØ	100 †				600ffØ	E	u111	S
76#	2SC987A	250m	4.5G§	2.0m	§J	20	15	3.0	30m	100nØ	10Ø	10mØ	80 †				500f§	E	X80a	Y
77#	2SC1552	250m	4.5G§		§J	20	15	3.0	30m	100nØ	10Ø	10mØ	70 †				1.0pØ	EP	X140	C
78♦#	BFT65	250m	4.5G§	1.5m	§J		15	3.0	50m	50n	5.0Ø	50mØ	30 †Δ				850f§	PEØ	u123	E
79#	BFR14A	250m	5.0G§	4.0m	§J	20	12	3.5	30m	50nØ	6.0Ø	5.0mØ	75				450p†	PEØ	u118a	S
80#	2SC1268	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	u88	S
81#	2SC1269	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	u88	S
82#	2SC1270	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	u88	S
83#	2SC1271	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	u88	S
84#	V578	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	X80a	Y
85#	V578S	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	X80a	Y
86#	V578W	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	X80a	Y
87#	V912C	250m	6.0G§Δ	2.0m	§J	20	15	3.0	30m	50nØ	10Ø	10mØ	100 †				600ffØ	E	u111	S
88#	V913A	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	u111	S
89#	V913B	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	u111	S
90#	V913C	250m	6.0G§Δ	2.0m	§J	25	11	3.0	50m	50nØ	8.0Ø	10mØ	100 †				600ffØ	E	u111	S
91#	2SC1558	250m	7.0G§		§J	15	8.0	3.0	80m	100nØ	3.0Ø	50mØ	75 †				1.5pØ	EP	X140	C
92▼#	2SC1656	250m	7.0G§Δ	1.4m	§J	16	6.0	3.0	30m	100n	3.0	10m	100 †				350f§	E	u111	S
93#	BF241	255m	400M§	2.5m	♦J	40	40	4.0	25m	100nØ	10	1.0mØ	35 †Δ				270ff	PEØ	X64e	A
94#	BF241C	255m	400M§	2.5m	♦A	40	40	4.0	25m	100nØ	10Ø	1.0mØ	72 †Δ				300ff	DPE	u29	C
95#	BF241D	255m	400M§	2.5m	♦A	40	40	4.0	25m	100nØ	10Ø	1.0mØ	38 †Δ				300ff	DPE	u29	C
96#	BF240	255m	430M§	2.5m	♦J	40	40	4.0	25m	100nØ	10	1.0mØ	65 †Δ				270ff	PEØ	X64e	A
97#	BF240B	255m	450M§	2.5m	♦A	40	40	4.0	25m	100nØ	10Ø	1.0mØ	110 †Δ				300ff	DPE	u29	C
98#	BFY85*	260m				45	45	5.0	100m	.01u			50 †Δ					PE	L2t	
99#	BFY86*	260m				45	45	5.0	100m	.01u			50 †Δ					PE	L2t	
100#	BSY79	260m*	100M§	2.0m	§J	120		5.0	30m	50nØ	1.0Ø	1.0mØ	60 †				4.0p§	PE	TO18	AØ
101	BSY62	260m*	200M§Δ	2.0m	§J	25	15	5.0	200m	.50uØ	1.0Ø	10mØ	40 †				5.0p	PEΔ	TO18	
102	FT107A	260m	200M§	2.0m	§J	60	60	8.0	50m	2.0nØ	10Ø	1.0mØ	335	24u	8.5k	7.0	2.5p§	DPEØ	TO18	AØ
103	FT107B	260m	260M§	2.0m	§J	45	45	8.0	50m	2.0nØ	10Ø	1.0mØ	1.0k	74u	28k	23	2.5p§	DPEØ	TO18	AØ
104	FT107C	260m	280M§	2.0m	§J	30	30	8.0	50m	2.0nØ	10Ø	1.0mØ	1.6k	120u	39k	33	2.5p§	DPEØ	TO18	AØ
105	A473	260m	550M§	1.5m	§J	40	25	4.0	25m	100nØ	10	7.0m	90 †				2.1p	PE	TO72	J
106#	BF173	260m	550M§	1.5m	§J	40	25	4.0	25m		10Ø	7.0mØ	88				230ff	PE	TO72	J
107#	BFR15	260m	3.3G§	1.4m	§J		12	3.5	30m	50nØ	6.0Ø	5.0mØ	25 †Δ				1.1p	PEØ	TO72	J
108#	BFX60	265m	550M§	1.5m	§J	40	25	4.0	25m		10Ø	7.0mØ	100 †				260ff	PEØ	TO72	J
109#	BFX59	265m	1.0G§	1.5m	§J	30	20	3.0	100m	10nØ	10Ø	10mØ	200 Ø				600ffØ	PEØ	TO72	J
110#	BFX59F	265m	1.0G§	1.5m	§J	30	20	3.0	100m	10nØ	10Ø	10mØ	200 Ø				900ffØ	PEØ	TO72	J

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	2N1386†	300m		2.0m		§S	25	25	3.0	50m	100nØ	1.0Ø	10mØ	30 †△				8.0pØ		TO5	A	
2	2N1387†	300m		2.0m		§S	30	30	3.0	50m	100nØ	1.0Ø	10mØ	20 †△				8.0pØ		TO5	A	
3#	2S741A	300m					30	30	3.0	50m	100u	5.0Ø	3.0mØ	5.0 △					PL	TO18		
4#	2S742A	300m					75	75	3.0	50m	100u	5.0Ø	3.0mØ	5.0 △					PL	TO18		
5#	2S743A	300m					115	115	3.0	50m	100u	5.0Ø	3.0mØ	5.0 △					PL	TO18		
6#	2S744A	300m					30	30	3.0	50m	100u	5.0Ø	3.0mØ	20 △					PL	TO18		
7#	2S745A	300m					75	75	3.0	50m	100u	5.0Ø	3.0mØ	20 △					PL	TO18		
8#	2S746A	300m					115	115	3.0	50m	100u	5.0Ø	3.0mØ	20 △					PL	TO18		
9#	2SC538	300m		2.0m		§J	25	25	5.0	50m	.01uØ	5.0	2.0m	250					PE	TO18	AØ	
10#	2SC538A	300m		2.0m		§J	45	45	5.0	50m	.01uØ	5.0	2.0m	250					PE	TO18	AØ	
11#	2SC539	300m		2.0m		§J	25	25	5.0	50m	.01uØ	5.0	2.0m	250					PE	TO18	AØ	
12#	2SC689H†	300m		2.0m		§J	40	15	5.0		.25uØ	1.0Ø	10mØ	40 †△				3.5p		TO18	A	
13#	2SC913†	300m		8.3m		§J	40	35	5.0	300m	.10uØ	1.0Ø	30mØ	45 †△				5pØ	PE	TO18		
14#	2SC914†	300m				§J						1.0Ø	30mØ	45 †△				5.0pØ	PE	TO18	AØ	
15#	2SC915†	300m				§J						1.0Ø	30mØ	45 †△				5.0pØ	PE	TO18	AØ	
16#	2SC1071†	300m				§J						1.0Ø	30mØ	40 †△				5.0pØ	PE	TO18	AØ	
17	BC136	300m		3.0		♦J	60	40	5.0	600m	50n	10Ø	10mØ	30 †△				25pØ		TO105	A	
18#	BF120	300m		2.0m		§J		220	5.0	50m	200nØ	10	10m	20 △†					PE	TO18	AØ	
19#	BFS99	300m		2.0m		§J	120	90	5.0		100m	1.0Ø	20mØ	20 †△					PE	TO18	A	
20	IT918A	300m		1.7m		§S	20	12	3.0	30m	100pØ	1.0Ø	100mØ	200 †				1.8pØ	DPEØ	u92a	AA	
21	IT2218	300m		1.7m		§S	60	30	5.0	800m	10nØ	10Ø	100uØ	20 †△				30pØ	DPL	u92	L	
22	IT2219	300m		1.7m		§S	60	30	5.0	800m	10nØ	10Ø	100uØ	35 †△				30pØ	DPL	u92	L	
23	IT2221	300m		1.7m		§S	60	30	5.0	800m	10nØ	10Ø	100uØ	20 †△				30pØ	DPL	u92	L	
24	IT2222	300m		1.7m		§S	60	30	5.0	800m	10nØ	10Ø	100uØ	35 †△				30pØ	DPL	u92	L	
25	ITC918A	300m		1.7m		§S	20	12	3.0	30m	100pØ	1.0Ø	100mØ	200 †				1.8pØ	DPEØ	TO18	AØ	
26	TE3416	300m		2.4m		§J	50	50	5.0	500m	100nØ	4.5Ø	2.0mØ	75 △					DPL	R97a	A	
27	TE3417	300m		2.4m		§J	50	50	5.0	500m	100nØ	4.5Ø	2.0mØ	180 △					DPL	R97a	A	
28#	TIS60	300m		3.0m		§S	40	25	5.0	400m	100nØ	2.0Ø	50mØ	160 †#					PE†	TO92	B	
29#	ZTX341	300m		3.0m		♦A	100	100	5.0	100m	500nØ*	1.0Ø	2.0mØ	30 △†					PLØ	X59	F	
30#	ZTX342	300m		3.0m		♦A	120	120	5.0	100m	500nØ*	1.0Ø	2.0mØ	30 △†					PLØ	X59	F	
31#	BF413	300m	120m§	3.0m		§J	200	170	5.0	50m	50nØ	10Ø	10mØ	30 †△#				5.0p$Ø	PL†	TO92	A	
32	2N4879*	300mØ	15M§△	1.7m		§S	55	55	7.0	10m	.1nØ	5.0Ø	1.0mØ	175 †△				.8p$	Ø*	L2p		
33	2N4880*	300mØ	15M§△	1.7m		§S	45	45	7.0	10m	.1nØ	5.0Ø	1.0mØ	100 †△				.8p$	Ø*	L2p		
34	2N1390	300m	20M△	2.0m		§S	20	20	2.0	50m	800nØ	6.0Ø	1.0m	10 △				10pØ		TO5	A	
35	2N2432Ø	300m	20M§△	2.0m		§S	30	30	15	100m	.01uØ	5.0Ø	1.0mØ	50 †△				12pØ	△	TO18	AØ	
36	2N2432AØ	300m	20M§△	2.0m		§S	45	45	18	100m	.01uØ	5.0Ø	1.0mØ	50 †△				12p$Ø	△	TO18	AØ	
37	2N4138	300m	20M§△	2.0m		§S	30	30	15	100m	.01uØ	5.0Ø	1.0mØ	50 †△				12pØ	Ø	TO46	AØ	
38	2N4878*	300mØ	20M§△	1.7m		§S	60	60	7.0	10m	.1nØ	5.0Ø	1.0mØ	225 †△				.8p$	Ø*	L2p		
39#	BFV89Ø	300m	20M§△	2.0m		§S	30	30	15	100m	.01uØ	5.0Ø	1.0mØ	50 †△				12pØ	PE	u26a	B	
40#	BFV89AØ	300m	20M§△	2.0m		§S	45	45	18	100m	.01uØ	5.0Ø	1.0mØ	50 †#				12pØ	PE	u26a	B	
41	BSY68	300m	20M§△				120		5.0	50m			10mØ	20 †						TO5		
42	2N1389	300m	25MΔ	2.0m		§A	50	50 Ø	1.5	50m	500n	6.0Ø	1.0m	4.0 △				6.0pØ		TO5	A	
43	2N754	300m	30M§△	3.0m		§S	60	60 §	3.0	50m	1.0u	10Ø	5.0mØ	20 △				10pØ		TO18	AØ	
44	2N755	300m	30M§△	3.0m		§S	100	80 §	3.0	50m	1.0u	10Ø	5.0mØ	20 △				10pØ		TO18	AØ	
45	2N839	300m	30M§△	3.0m		§J	45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	20 △	1.2uØb	80		15pØ		TO18	AØ	
46	2N840	300m	30M§△	3.0m		§J	45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	40 △	1.2uØb	80		15pØ		TO18	AØ	
47	2N842	300m	30M§	2.0m		§J	45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	20 △	350nb	40	2.0	6.0p	ME△	TO18	AØ	
48	2N929	300m	30M§△	2.0m		§J	45	45	5.0	30m	10u	5.0Ø	1.0mØ	60 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	TO18	AØ	
49	2N930	300m	30M§△	2.0m		§J	45	45	5.0	30m	10u	5.0Ø	1.0mØ	150 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	TO18	AØ	
50	2N2387	300m	30M§△	2.0m		§J	45	45	5.0	30m	10n	5.0Ø	1.0m	60 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	u25		
51	2N2388	300m	30M§△	2.0m		§J	45	45	5.0	30m	10n	5.0Ø	1.0m	150 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	u25		
52#	2S501	300m	30M§△	2.0m		§J	25	25	5.0	30m	10n	5.0Ø	10uØ	40 †△				8.0pØ	PLØ	TO18	Ø	
53#	2S502	300m	30M§△	2.0m		§J	25	25	5.0	30m	10n	5.0Ø	10uØ	100 †△				8.0pØ	PLØ	TO18	Ø	
54#	2S503†	300m	30M§△	2.0m		§J	25	25	5.0	30m	10n	5.0Ø	10uØ	180 †△				8.0pØ	PLØ	TO18	Ø	
55	3N74Ø	300m	30M§△	2.0m		§S	50		18	20m	.01uØ							8pØ	△	TO72	GCØ	
56	JAN3N74Ø	300m	30M§△	1.7m		§J	50		20	20m	10nØ							8.0pØ		TO72	GCØ	
57	3N75Ø	300m	30M§△	2.0m		§S	50		18	20m	.01u							8pØ	△	TO72	GCØ	
58	JAN3N75Ø	300m	30M§△	1.7m		§J	50		20	20m	10nØ							8.0pØ		TO72	GCØ	
59	3N76Ø	300m	30M§△	2.0m		§S	50		18	20m	.01u							8pØ	△	TO72	GCØ	
60	JAN3N76Ø	300m	30M§△	1.7m		§J	50		20	20m	10nØ							8.0pØ		TO72	GCØ	
61	3N77Ø	300m	30M§△	2.0m		§S	40		12	20m	.01uØ							8pØ	△	TO72	GCØ	
62	3N78Ø	300m	30M§△	2.0m		§S	40		12	20m	.01uØ							8pØ	△	TO72	GCØ	
63	3N79Ø	300m	30M§△	2.0m		§S	40		12	20m	.02uØ							10pØ	△	TO72	GCØ	
64#	BFV85D	300m	30M§△	500u		§J	45	45	5.0	30m	10n	5.0Ø	10uØ	60 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	u26a	B	
65#	BFV85E	300m	30M§△	500u		§J	45	45	5.0	30m	10n	5.0Ø	10uØ	150 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	u26a	B	
66	2N2639*	300m	31M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2t		
67	2N2640*	300m	31M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2t		
68	2N2641*	300m	31M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2t		
69	2N2642*	300m	31M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2t		
70	2N2643*	300m	31M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2t		
71	2N2644*	300m	31M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2t		
72	JAN2N2639*	300m	32M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2b		
73	JAN2N2642*	300m	32M§△	2.0m		§S	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	L2b		
74	2N841	300m	40M§△	3.0m		§S	45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	80 △	1.2uØb	80		15pØ		TO18	AØ	
75	2N841/46	300m	40M§	2.3m		§J	45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	140	350nb	40	2.0	8.0p	ME†	TO46		
76	2N843	300m	40M§	2.0m		§S	45	45 §	2.0	50m	1.0u	5.0Ø	10mØ	40 △	350nb	40	2.0	6.0p	ME△	TO18	AØ	
77	JAN2N2432	300m	40M§△	1.7m		§S	30	30		100m	10nØ	5.0Ø	1.0mØ	80 †△				12pØ	△	TO18	AØ	
78	JAN2N2432A	300m	40M§△	1.7m		§S	45	45		100m	10nØ	5.0Ø	1.0mØ	80 †△				12pØ	△	TO18	AØ	
79	2N3566	300m	40M§△	3.0m		♦J	40	30	5.0	200m	50nØ	10Ø	2.0mØ	80 †△				25pØ		R110a	A	
80	2N5135	300m	40M§△	2.9m		♦J	30	25	4.0	200m	.30uØ	10Ø	10mØ	50 †#△				25p$		TO105	A	
81	2N5137	300m	40M§△	2.9m		♦J	30	20	3.0	500m	.10uØ	1.0Ø	150mØ	20 †#△				35p$		TO106	A	
82	BC115	300m	40.M§	3.0m		♦J	40	30	5.0		.10uØ	10Ø	10mØ	200 †#				12p	DPL	R97		
83#	BC117	300m	40M§△	3.0m		♦J	120	120	5.0		.10uØ	10Ø	30mØ	30 †△				6.0p	DPL	R97		
84	BC125	300m	40M§△	3.0m		♦J	50	30	5.0		.05uØ	10Ø	1.0mØ	20 †△				12p	DPE	R97		
85	BC125A	300m	40M§△	3.0m		♦J	50	40	5.0	500m	50n	10Ø	10mØ	40 †△				25pØ		TO105	A	
86#	BC145	300m	40M§△	3.0m		♦J	120	120	5.0		.10uØ	30Ø	5.0mØ	30 †△				6.0p	PE	R97		
87	BC236	300m	40M§△	3.0m		♦J	120	120	5.0	50m	100nØ	5.0Ø	10m	25 †△				4.0p	PL	R110	A	
88#	BSY89Ø	300m	40M§△	2.0m		§J	25	18	7.0	100m	.01uØ	5.0Ø	1.0mØ	150 †△				15pØ	PE	TO18	AØ	
89	SE6001	300m	40.M§	3.0m		♦J	40	30	5.0		.50uØ	10Ø	10mØ	50 †#△				25pØ	PL	TO105		
90	SE6002	300m	40.M§	3.0m		♦J	40	30	5.0		.50uØ	10Ø	10mØ	150 †#△				25pØ	PL	TO105		
91	2N2693†	300m	42M§△	2.0m		§S	45	30	10	50m	.01uØ	1.0Ø	.01mØ	40 †△				5pØ		TO18	AØ	
92	2N2694†	300m	42M§△	2.0m		§S	45	20	10	50m	.01uØ	1.0Ø	.01mØ	20 †△				5pØ		TO18	AØ	
93	JAN2N929	300m	45M§△	2.0m		§J	60	45	6.0	30m	10nØ	5.0Ø	1.0mØ	60 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	Ø	TO18	AØ	
94	2N2586	300m	45M§△	2.0m		§S	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 △	100uØ	18kØ		7.0pØ	Ø	TO18	AØ	
95#	BFX92	300m	45M§	2.0m		§J	50	45	6.0	30m	10nØ	5.0Ø	1.0mØ	60 △	1.0uØb	32 Ø	6.0 Ø	5.0p	DPLØ	TO18	AØ	
96#	BFX93	300m	45M§	2.0m		§J	50	45	6.0	30m	10nØ	5.0Ø	1.0mØ	150 △	1.0uØb	32 Ø	6.0 Ø	5.0p	DPLØ	TO18	AØ	
97	2N844	300m	50M§△	3.0m		§S	60	60 §	3.0	50m	50u	10Ø	5.0mØ	40 △				10pØ		TO18	AØ	
98	2N845	300m	50M§△	3.0m		§S	100	80 §	3.0	50m	50uØ	10Ø	5.0mØ	40 △				10pØ		TO18	AØ	
99	2N1388	300m	50MΔ	2.0m		§S	45	25	1.5	50m	500nØ	6.0Ø	1.0m	30 △				10pØ		TO5	A	
100	2N2480*	300m	50M§△	1.7m		§J	75	40	5.0	500m	.05uØ	5.0Ø	1.0mØ	30 †△				20pØ	*Ø	L2t		
101	2N2480A*	300m	50M§△	1.7m		§J	80	40	5.0	500m	.02uØ	5.0Ø	1.0mØ	50 △	16uØ	5.0kØ		18pØ	*Ø	L2t		
102#	2SC1006	300m	50M§△	2.4m		§J	50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	600 †	22	14k	2.0	10pØ	E	TO18	AØ	
103#	2SC1010	300m	50M§△	2.4m		§J	50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	550 †	22	14k	2.0	10pØ	EØ	TO18	AØ	
104	EN697	300m	50M§△	3.0m		♦J	60	30	5.0		1.0uØ	5.0Ø	1.0mØ	25 △	500nØb	34 Ø	5.0 Ø	35pØ	DPL	TO105	AØ	
105	MPSA10	300m	50M§△	2.7m		†J		40	4.0	100m	100n	10Ø	5.0mØ	40 †△*				4.0pØ	AN	TO92	A	
106	TRS3011	300m	50M§△	2.0m		§A	300	300 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO46		
107	TRS3012	300m	50M§△	2.0m		§A	300	300 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO18		
108	TRS3501	300m	50M§△	2.0m		§A	350	350 §	6.0		2.0uØ	4.0Ø	50mØ	60 †#				14p		TO46		
109	TRS3502	300m	50M§△	2.0m		§A	350	350 §	6.0		2.0uØ	4.0Ø	50mØ	60 †#				14p		TO18		
110	TRS4001	300m	50M§△	2.0m		§A	400	400 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO46		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	TRS4002	300m	50M§△	2.0m	§A	400	400 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO18
2	TRS4501	300m	50M§△	2.0m	§A	450	450 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO46
3	TRS4502	300m	50M§△	2.0m	§A	450	450 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO18
4	TRS5011	300m	50M§△	2.0m	§A	500	500 §	6.0		2.0uØ	5.0Ø	25mØ	65 †#				14p		TO46
5	TRS5012	300m	50M§△	2.0m	§A	500	500 §	6.0		2.0uØ	5.0Ø	25mØ	65 †#				14p		TO18
6	TRS5501	300m	50M§△	2.0m	§A	550	550 §	6.0		10uØ	5.0Ø	25mØ	60 †#				14p		TO46
7	TRS5502	300m	50M§△	2.0m	§A	550	550 §	6.0		10uØ	5.0Ø	25mØ	60 †#				14p		TO18
8	TRS6011	300m	50M§△	2.0m	§A	600	600 §	6.0		10uØ	5.0Ø	25mØ	65 †#				14p		TO46
9	TRS6012	300m	50M§△	2.0m	§A	600	600 §	6.0		10uØ	5.0Ø	25mØ	65 †#				14p		TO18
10	2N2910*	300m	55M§△	1.7m	§J	45	25	7.0		10nØ	5.0Ø	1.0mØ	50 △	1.0u☑b	32 ☑	8.0 ☑	12p☑		L2b
11	2N780	300m	60M§△	2.0m	§S	45	45	5.0	50m	10nØ	5.0Ø	30uØ	20 †△		75 ☑	6.0 ☑b	4.0p☑	Ø	TO18 AØ
12	2N2652*	300m	60M§△	1.7m	§J	100	60	7.0	500m	10nØ	5.0Ø	1.0mØ	50 △	50u☑	10k		15p☑	Ø	L2t
13	2N2652A*	300m	60M§△	1.7m	§J	100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	50 △	50u☑	10k☑		15p☑	Ø	L2t
14	2N2913*	300m	60M§△	2.8m	§J	45	45	6.0	30m	10n	5.0Ø	10nØ	60 †△	1.0u☑b	32 ☑		6.0p☑	Ø	L2t
15	2N2914*	300m	60M§△	2.8m	§J	45	45	6.0	30m	10n	5.0Ø	10nØ	150 †△	1.0u☑b	32 ☑		6.0p☑	Ø	L2t
16	2N2915*	300m	60M§△	1.7m	§J	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0ub	32 ☑		6.0p☑	Ø	L2t
17	2N2915A*	300m	60M§△	1.7m	§J	45	45	6.0	30m	10n	5.0Ø	1.0mØ	150 †△	100n☑b	37 ☑		6.0p☑	*	L2t
18	2N2916*	300m	60M§△	2.8m	§J	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		6.0p☑	*	L2t
19	2N2916A*	300m	60M§△	1.7m	§J	45	45	6.0	30m	10n	5.0Ø	1.0mØ	300 †△	100n☑b	37 ☑		6.0p☑	*	L2t
20	2N2917*	300m	60M§△	2.8m	§J	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		6.0p☑	*	L2t
21	2N2918*	300m	60M§△	2.8m	§J	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		6.0p☑	*	L2t
22	2N2919*	300m	60M§△	2.8m	§J	60	60	6.0	30m	2.0nØ	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		6.0p☑	*	L2t
23	JAN2N2919*	300m	60M§△	1.7m	§A	70	60 *	6.0	30m	1.0u	5.0Ø	10uØ	60 †△	60u☑	30k☑	10 ☑	5.0p☑	Ø	L2v
24	2N2919A*	300m	60M§△	1.7m	§J	60	60	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 †△	100n☑b	37 ☑		6.0p☑	*	L2t
25	2N2920*	300m	60M§△	2.8m	§J	60	60	6.0	30m	2.0nØ	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		6.0p☑	*	L2t
26	JAN2N2920*	300m	60M§△	1.7m	§A	70	60 *	6.0	30m	1.0u	5.0Ø	10uØ	175 †△	60u☑	30k☑	10 ☑	5.0p☑	Ø	L2v
27	2N2920A*	300m	60M§△	1.7m	§J	60	60	6.0	30m	2.0nØ	5.0Ø	1.0mØ	300 †△	100n☑b	37 ☑		6.0p☑	*	L2t
28	2N3567	300m	60M§△	3.0m	♦J	80	40	5.0	500m	50uØ	1.0Ø	150mØ	40 †#△				20p$		TO105 A
29	2N3568	300m	60M§△	3.0m	♦J	80	60	5.0	500m	50uØ	1.0Ø	150mØ	40 †△#				20p$☑		TO105 A
30	2N3569	300m	60M§△	3.0m	♦J	80	40	5.0	500m	50uØ	1.0Ø	150mØ	40 †#△				20p$		TO105 A
31	2N3680*	300m	60M§△	2.0m	§S	60	50	6.0	30m	.01uØ	5.0Ø	1.0mØ	300 △	45u☑	24k☑	10 ☑	6p☑	Ø	L2t
32	2N3907*	300m	60M§△	2.0m	§S	60	45	6.0	30m	10nØ	5.0Ø	1.0mØ	120 △	1.0u☑b	32 ☑		6.0p☑	*	L2t
33	2N3908*	300m	60M§△	2.0m	§S	60	60	6.0	30m	2.0nØ	5.0Ø	1.0mØ	200 △	1.0u☑b	32 ☑		6.0p☑	*	L2t
34	2N6085*	300m	60M§△	1.7m	§S	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
35	2N6086*	300m	60M§△	1.7m	§S	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
36	2N6087*	300m	60M§△	1.7m	§S	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
37	2N6088*	300m	60M§△	1.7m	§S	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
38	2N6089*	300m	60M§△	1.7m	§S	45	45	6.0	30m	10n	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
39	2N6090*	300m	60M§△	1.7m	§S	45	45	6.0	30m	10n	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
40	2N6091*	300m	60M§△	1.7m	§S	60	60	6.0	30m	2.0nØ	5.0Ø	10uØ	60 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
41	2N6092*	300m	60M§△	1.7m	§S	60	60	6.0	30m	2.0nØ	5.0Ø	10uØ	150 †△	1.0u☑b	32 ☑		3.0p$☑	*Ø	L2d
42#	BC395	300m	60M	3.0m	♦	80	70	5.0	500m		10Ø	10mØ	40 †				20p	PE	TO105 A
43#	BFV85F	300m	60M§△	500u	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	80 △	30u☑	13 ☑	8 ☑	6p☑	PLØ	u26a B
44#	BFV85G	300m	60M§△	500u	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	150 △	40u☑	24 ☑	8 ☑	6p☑	PLØ	u26a B
45#	BFY10	300m	60M§△	2.0m	§J	45	45	5.0	50m	2.0uØ	5.0	5.0m	20 △				3p☑	ME	TO5
46#	BFY11	300m	60M§△	2.0m	§J	45	45	5.0	50m	2.0uØ	5.0	5.0m	35 △				3p☑	ME	TO5
47#	BSS38	300m§	60M§△	4.0m	§J	120	100	5.0	100m	200nØ	1.0Ø	4.0mØ	80 †				4.5p$☑	PE△	u135 A
48#	BSY10	300m	60MØ△	2.0m	§J	45		5.0	50m		5.0	10m	45 †△					ME	TO5
49#	C424	300m	60M§△	3.0m	♦J	40	30	6.0		.20uØ	10Ø	50mØ	50 †△				25p☑	PL	R97
50	CS4005	300m	60M§△	3.0m	♦J	80	40	5.0		50nØ	1.0Ø	150mØ	80 †#	32u	100	1.7	13p	E△	TO105 A
51	CS4006	300m	60M§△	3.0m	♦J	80	60	5.0		50nØ	1.0Ø	150mØ	80 †#	32u	100	1.7	13p	E△	TO105 A
52	CS4007	300m	60M§△	3.0m	♦J	80	40	5.0		50nØ	1.0Ø	150mØ	150 †#	32u	100	1.7	18p	E△	R97 A
53	EN1613	300m	60M§△	3.0m	♦J	75	40 *☑	7.0	30m	50nØ	5.0Ø	1.0mØ	25 △	500n☑b	34 ☑	5.0 ☑	25p☑	DPL	TO105 A
54#	RN1613	300m	60M§	3.3m	♦J	75		7.0	1.0	50nØ	10Ø	150mØ	40 △				25p☑	PL	TO105 A
55#	PN1711	300m	60M§	3.3m	♦J	75		7.0	1.0	50nØ	10Ø	150mØ	100 △				25p☑	PL	TO105 A
56	2N2692	300m	66.M§	2.0m	§J	45	30	10	50m	.01uØ	1.0Ø	.10m	90 †△				5p☑	PE△Ø	TO18 AØ
57	JAN2N702†	300m	70M§△	1.7m	§S	40	25	5.0	30m	100nØ	5.0Ø	10mØ	20 †△#	500n☑b	34 ☑	5.0 ☑	6.0p☑	DPL	TO18 AØ
58	JAN2N703†	300m	70M§△	1.7m	§S	40	25	5.0	30m	100nØ	5.0Ø	10mØ	20 †△#	500n☑b	34 ☑	5.0 ☑	6.0p☑	DPL	TO18 AØ
59#	2S101†	300m	70M§△	2.0m	§J	25	25	5.0	50m	.50uØ	5.0Ø	10mØ	20 †△				6p☑	DM	TO18
60	EN1711	300m	70M§△	3.0m	♦J	75	40 *☑	7.0		50nØ	5.0Ø	1.0mØ	50 △	500n☑b	34 ☑	5.0 ☑	25p☑	DPL	TO105 A
61#	ZT202	300m	70M§△	4.0m	#J	30	20	5.0	50m	1.0u	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	8.0p☑		TO5 Ø
62#	ZT203	300m	70M§△	4.0m	#J	30	20	5.0	50m	1.0u	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	8.0p☑		TO5 Ø
63#	ZT204	300m	70M§△	4.0m	#J	30	20	5.0	50m	1.0u	6.0Ø	1.0mØ	100	2.5u	1.9k	1.1	8.0p☑		TO5 Ø
64#	ZT402	300m	70M§△	4.0m	#J	30	20	5.0	50m	1.0u	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	8.0p☑		TO5 Ø
65#	ZT403	300m	70M§△	4.0m	#J	30	20	5.0	50m	1.0u	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	8.0p☑		TO18 Ø
66#	ZT404	300m	70M§△	4.0m	#J	30	20	5.0	50m	1.0u	6.0Ø	1.0mØ	100	2.5u	1.9k	1.1	8.0p☑		TO18 Ø
67	2N2720*	300m	80M§△	1.7m	§S	80	60	6.0	40m	10nØ	5.0Ø	1.0mØ	30 △	1.0u☑b	32 ☑	5.0 ☑	6.0p☑	*	L2t
68	2N2721*	300m	80M§△	1.7m	§S	80	60	6.0	40m	10nØ	5.0Ø	1.0mØ	30 △	1.0u☑b	32 ☑	5.0 ☑	6.0p☑	*	L2t
69	2N3587*	300m	80M§△	1.7m	§S	60	45	5.0	500m	10nØ	15Ø	1.0mØ	80 †△				8.0p☑		L2t
70#	2SC732	300m	80.M§	3.0m	♦J	35	30	5.0	100m	.10uØ	6.0Ø	2.0mØ	1.2kt☑				10p☑	PE	R67a B
71#	2SC733	300m	80M§△	3.0m	♦J	35	30	5.0	100m	.10uØ	6.0Ø	2.0mØ	70 †△*				7.0p	PE	R67a B
72#	2SC1380	300m	80M§		§J	55	50		100m	100n	6.0Ø	2.0mØ	400 †				6.0p	PE	TO18
73#	2SC1380A	300m	80M§		§J	55	50		100m	100n	6.0Ø	2.0mØ	400 †				6.0p	PE	TO18
74#	BCY55*	300m	80M§	3.0m	♦J	45	45	5.0	30m	10n	5.0Ø	1.0mØ	350	25u	10k	5.5		PL*	X44
75	2N2569Ø	300m	100M§△	2.0m	§S	20		5.0	100m	.01uØ	10Ø	10mØ	50 †△				10p☑	PE	TO18 AØ
76	2N2570Ø	300m	100M§△	2.0m	§S	20		5.0	100m	.01uØ	10Ø	10mØ	50 †△						TO18 AØ
77	2N2722*	300m	100M§△	1.7m	§S	45	45	5.0	40m	1.0nØ	5.0Ø	100u	100 △	1.0u☑b	32 ☑	6.0 ☑	6.0p☑	*	L2t
78#	2SC587	300m	100M§			45	35	5.0	30m	.01uØ	10Ø	2.0m	300				6p☑	PE	TO18
79#	2SC587A	300m	100M§			45	35	5.0	30m	.01uØ	10Ø	2.0m	300				6p☑	PE	TO18
80#	2SC982	300m	100M§		♦J	30	30	10	300m	100n	5.0Ø	10mØ	25kt				6.0p	PE	R67a
81#	BC110	300m	100M§	2.0m	§J	80	80	8.0	50m	100n	5.0Ø	50mØ	70 †				5.0p	PE	TO18 A
82#	BC170A	300m	100M§	3.0m	♦J		20	5.0	100m	100nØ	1.0Ø	1.0mØ	35 †△				4.0p$	PE†	X64 A
83#	BC170B	300m	100M§	3.0m	♦J		20	5.0	100m	100nØ	1.0Ø	1.0mØ	80 †△				4.0p$	PE†	X64 A
84#	BC170C	300m	100M§	3.0m	♦J		20	5.0	100m	100nØ	1.0Ø	1.0mØ	200 †△				4.0p$	PE†	X64 A
85#	BCY42	300m	100M§△	5.0m	§J	40	25	5.0	100m	25nØ	5.0Ø	1.0mØ	45 †△				6p☑	PE	TO18 AØ
86#	BCY43	300m	100M§△	5.0m	§J	40	20	5.0	100m	25nØ	5.0Ø	1.0mØ	75 †△				6p☑	PE	TO18 AØ
87#	FOS100	300m	100M§△	2.0m	§J	15	15	4.5	100m		5Ø	10mØ	50 †△				8.0p☑	PE	TO18 AØ
88#	NKT10419	300m	100M§	2.0m	§J	25	25	5.0	100m	.01uØ	10Ø	.01mØ	120 †				4.0p		TO18 AØ
89#	NKT10519	300m	100M§	2.0m	§J	25	25	5.0	100m	.01uØ	10Ø	.01mØ	240 †				4.0p		TO18 AØ
90#	ZT40†	300m	110M§	2.5m	§J	20	20	6.0	50m	500n	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	5.0p		TO18 Ø
91#	ZT41†	300m	110M§	2.5m	§J	20	20	6.0	50m	500n	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	5.0p		TO18 Ø
92#	ZT42†	300m	110M§	2.5m	§J	45	45	6.0	50m	500n	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	5.0p		TO18 Ø
93#	ZT43†	300m	110M§	2.5m	§J	45	45	6.0	50m	500n	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	5.0p		TO18 Ø
94#	ZT44†	300m	110M§	2.5m	§J	45	45	6.0	50m	500n	6.0Ø	1.0mØ	65	2.5u	2.0k	1.1	5.0p		TO18 Ø
95#	ZTX107	300m	115M§	3.0m	♦J	45	45	5.0	100m#	200n	5.0Ø	2.0mØ	125 △*	30u	4.8k	4.1	4.5p	PL	X59 F
96#	ZTX108	300m	115M§	3.0m	♦J	20	20	5.0	100m#	200n	5.0Ø	2.0mØ	125 △*	30u	4.8k	4.1	4.5p	PL	X59 F
97#	ZTX109	300m	115M§	3.0m	♦J	20	20	5.0	100m#	200n	5.0Ø	2.0mØ	240 △*	40u	7.3k	6.4	4.5p	PLØ	X59 F
98	JAN2N930	300m	120M§△	2.0m	§J	60	45	6.0	30m	10nØ	5.0Ø	1.0mØ	150 △	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	TO18 AØ
99#	2SC367G	300m	120M§	3.0m	♦J	40	20	5.0	400m	500nØ	1.0Ø	100mØ	70 †				10p	PE	R67a B
100#	BF411	300m#	120M§	3.0m	§J	110	90	5.0	50m	50nØ	10Ø	10mØ	30 †△#				5.0p$☑	PL†	TO92 A
101#	BF412	300m#	120M§	3.0m	§J	150	130	5.0	50m	50nØ	10Ø	10mØ	30 †△#				5.0p$☑	PL†	TO92 A
102#	FOS101	300m	120M§	2.0m	§J	25	25	5.0	100m		6.0Ø	10mØ	200 †				6.0p☑	PEØ	TO18 AØ
103	MPSA20	300m	125M§△	2.7m	†J		40	4.0	100m	100n	10Ø	5.0mØ	40 †△*				4.0p☑	AN	TO92 A
104	MPSK20	300m	125M§△	2.7m	†J		40	4.0	100m	100nØ	10Ø	5.0mØ	40 †△				4.0p☑	AN†	TO92 A
105	MPSK21	300m	125M§△	2.7m	†J		40	4.0	100m	100nØ	10Ø	5.0mØ	40 †△				4.0p☑	AN†	TO92 A
106	MPSK22	300m	125M§△	2.7m	†J		40	4.0	100m	100nØ	10Ø	5.0mØ	40 †△				4.0p☑	AN†	TO92 A
107#	TI92	300m	125M§	1.7m	§J	18		5.0	100m	100n△	7.0Ø	1.0mØ	150 †△				4.0p	PE	TO18 AØ
108▼#	2SD392	300m	130M§	3.0m	♦J	20	15	5.0	300m	1.0u	2.0Ø	150mØ	100 †#					PE	TO92
109#	BSY73	300m	145M§	2.0m	§J	25	18	5.0	100m	.10uØ	1.0Ø	1.0mØ	35 †△	4.5u	2.5k	.60	6.0p	PE	TO18 AØ
110#	BSY75	300m	145M§	2.0m	§J	40	32	7.0	250m	.05uØ	1.0Ø	1.0mØ	35 †△	4.0u	2.5k	.60	5.0p	PE	TO18 AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 s/a TO200 Ser.	E O A D D E
1#	BSY77	300m	145M§	2.0m	§J	80	64	7.0	250m	.05uØ	1.0Ø	1.0mØ	35 †Δ	3.6u	2.5k	.50	4.0p	PE	TO18	AØ
2	2N702	300m	150M§	2.0m	§S	25	25	5.0	50m	5.0u	5.0Ø	10mØ	40 †				3.0p	MEΔ	TO18	A
3	2N703	300m	150M§	2.0m	§S	25	25	5.0	50m	5.0u	5.0Ø	10mØ	70 †				3.0p	MEΔ	TO18	AØ
4	2N5129	300m	150M§Δ	3.0m	♦J	15	12	3.0	500m	50n	10Ø	50mØ	35 †Δ#				10p$Ø		TO106	A
5#	2SC316	300m	150M	2.0m	§J	32	32	5.0	30m	.01uØ	5.0	2.0m	350					PLØ	TO18	
6#	2SC366G†	300m	150M§	3.0m	♦J	60	40	5.0	400m	.50uØ	1.0Ø	100mØ	30 †Δ*				10p	PE	R67a	B
7#	2SC499	300m	150M§	3.0m	♦J	100	100 §	2.0	20m	1.0uØ	12Ø	2.0m	80				3.5pØ	PL	R67a	B
8#	2SC734	300m	150M§	3.0m	♦J	70	50	5.0	150m	.10uØ	1.0Ø	20mØ	40 †Δ*				5.0p	PE	R67a	B
9#	2SC943	300m	150M§Δ	2.4m	§J	60	40	8.0	200m	500nØ	1.0Ø	10mØ	80 †Δ				3.0p	PE	TO18	AØ
10#	2SC1033	300m	150M§			200	150	5.0	10m	2.0uØ	10Ø	5.0mØ	30 †Δ				3.5p	DPL	TO18	AØ
11#	2SC1033A	300m	150M§			250	200	5.0	10m	2.0uØ	10Ø	5.0mØ	20 †Δ				3.5p	DPL	TO18	AØ
12#	BC182†	300m	150M§Δ	2.4m	§S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PE	X55	A
13#	BC182AΔ†	300m	150M§Δ	2.4m	§S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	260 Ø				5.0pØ	PE	X55	A
14#	BC182AØ	300m	150M§Δ	2.4m	§J	60	50	6.0	200m	15nØ	5.0Ø	2.0mØ	170 †	18u	2.7k	1.5	5.0pØ	PE†	TO92	D
15#	BC182BΔ†	300m	150M§Δ	2.4m	§S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PE	X55	A
16#	BC182BØ	300m	150M§Δ	2.4m	§J	60	50	6.0	200m	15nØ	5.0Ø	2.0mØ	290 †	30u	4.5k	2.0	5.0pØ	PE†	TO92	D
17#	BC182L†	300m	150M§Δ	2.4m	§S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PE	TO92	B
18#	BC182LA†	300m	150M§Δ	2.4m	§S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	260 Ø				5.0pØ	PE	TO92	B
19#	BC182LB†	300m	150M§Δ	2.4m	§S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PE	TO92	B
20#	BC183†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 Ø				5.0pØ	PE	X55	A
21#	BC183A†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	260 Ø				5.0pØ	PE	X55	A
22#	BC183AØ	300m	150M§	2.5m	§J	45	30	6.0	200m	15n	5.0Ø	2.0m	222	18	2.7k	1.5	2.5p	PE	TO92	
23#	BC183B†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PE	X55	A
24#	BC183BØ	300m	150M§	2.5m	§J	45	30	6.0	200m	15n	5.0Ø	2.0m	330	30	4.5k	2.0	2.5p	PE	TO92	
25#	BC183C†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 Ø				5.0pØ	PE	X55	A
26#	BC183L†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 Ø				5.0pØ	PE	TO92	B
27#	BC183LA†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	260 Ø				5.0pØ	PE	TO92	B
28#	BC183LB†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PE	TO92	B
29#	BC183LC†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 Ø				5.0pØ	PE	TO92	B
30#	BC184†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 Ø				5.0pØ	PEØ	X55	A
31#	BC184B†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PEØ	X55	A
32#	BC184C	300m	150M	2.4m	§	45	30	5.0	200m	15n	5.0	2.0m	450 Δ*				5.0p	PE	X55	A
33#	BC184L†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 Ø				5.0pØ	PEØ	TO92	B
34#	BC184LB†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				5.0pØ	PEØ	TO92	B
35#	BC184LC†	300m	150M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 Ø				5.0pØ	PEØ	TO92	B
36#	BC267	300m	150M§	10u	#J	50	50 Ø	6.0	1	15n§	5.0Ø	2.0mØ	300	20u	3.0k	3.6		PE	TO18	
37#	BC268	300m	150M§	10u	#J	30	30 Ø	6.0	1	15n§	5.0Ø	2.0mØ	400	30u	4.0k	5.6		PE	TO18	
38#	BC269	300m	150M§	10u	#J	30	30 Ø	6.0	1	15n§	5.0Ø	2.0mØ	500	40u	6.0k	7.0		PE	TO18	
39#	BC270	300m	150M§	10u	#J	20	20 Ø	6.0	1	.20u§	5.0Ø	2.0mØ	400	30u	4.0k	5.6		PE	TO18	
40#	BC382	300m	150M	2.4m	$	50	45	6.0	200m	15n	5.0	2.0m	240 Δ*				5.0p	PE	TO18	
41#	BC382B	300m	150M§Δ	2.4m	§S	50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PEØ	X55c	A
42#	BC382C	300m	150M§Δ	2.4m	§S	50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PEØ	X55c	A
43#	BC383	300m	150M	2.4m	$	45	30	6.0	200m	15n	5.0	2.0m	240 Δ*				5.0p	PE	TO18	
44#	BC383B	300m	150M§Δ	2.4m	§S	45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PEØ	X55c	A
45#	BC383C	300m	150M§Δ	2.4m	§S	45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PEØ	X55c	A
46#	BC384	300m	150M	2.4m	$	45	30	6.0	200m	15n	5.0	2.0m	240 Δ*				5.0p	PE	TO18	
47#	BC384B	300m	150M§Δ	2.4m	§S	45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PEØ	X55c	A
48#	BC384C	300m	150M§Δ	2.4m	§S	45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PEØ	X55c	A
49#	BC582	300m	150M§Δ	2.4m	§S	50	45	6.0	200m	15nØ	5.0Ø	2.0mØ	125 Δ*				3.0p	PE†	X55c	A
50#	BC582A	300m	150M§Δ	2.4m	§S	50	45	6.0	200m	15nØ	5.0Ø	2.0mØ	260 Ø				3.0p	PE†	X55c	A
51#	BC582B	300m	150M§Δ	2.4m	§S	50	45	6.0	200m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PE†	X55c	A
52#	BC583	300m	150M§Δ	2.4m	§S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	125 Δ*				3.0p	PE†	X55c	A
53#	BC583A	300m	150M§Δ	2.4m	§S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	260 Ø				3.0p	PE†	X55c	A
54#	BC583B	300m	150M§Δ	2.4m	§S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PE†	X55c	A
55#	BC583C	300m	150M§Δ	2.4m	§S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PE†	X55c	A
56#	BC584	300m	150M§Δ	2.4m	§S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	240 Δ*				3.0p	PE†	X55c	A
57#	BC584B	300m	150M§Δ	2.4m	§S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	500 Ø				3.0p	PE†	X55c	A
58#	BC584C	300m	150M§Δ	2.4m	§S	30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PE†	X55c	A
59#	BC682	300m	150M	2.4m	$	75	70	5.0	200m	15n	5.0	2.0m	60				5.0p	PE	TO18	
60#	BCW36	300m	150M	2.4m	§	60	45	5.0	600m	10n	5.0Ø	100mØ	100 Δ	5.0u	40k	10	6.0p	PE	TO18	
61#	BCY69	300m	150M§Δ	2.0m	§J	20	20	5.0	100m	150nØ	5.0Ø	2.0mØ	750				5.5p	PE	TO18	Ø
62#	BFS29	300m	150M	2.4m	$	45	45	5.0	200m	20n	15Ø	100mØ	40 †Δ				5.0p	PE	u34	
63#	BFY39	300m	150M§	2.0m	§J	45	25	5.0	100m	50uØ	10Ø	10mØ	35 †				5.0p	PL	TO18	
64#	BFY39/I	300m	150M§	2.0m	§J	45	25	5.0	100m	.05uØ	10Ø	10mØ	35 Δ†	8.0u	3.2k	.30		PL	TO18	A
65#	BFY39/II	300m	150M§	2.0m	§J	45	25	5.0	100m	.05uØ	10Ø	10mØ	200 Ø†	8.0u	3.2k	.30		PL	TO18	A
66#	BFY39/III	300m	150M§	2.0m	§J	45	25	5.0	100m	.05uØ	10Ø	10mØ	400 Ø†	8.0u	3.2k	.30		PL	TO18	A
67#	PBC182	300m	150M§Δ	3.0m	#J	60	50	5.0	200m	10u	5.0Ø	2.0mØ	100 †Δ				5.0p	PE	TO98	B
68#	PBC183	300m	150M§Δ	3.0m	#J	45	30	5.0	200m	10u	5.0Ø	2.0mØ	100 †Δ				5.0p	PE	TO98	B
69#	PBC184	300m	150M§Δ	3.0m	#J	45	30	5.0	200m	10u	5.0Ø	2.0mØ	250 †Δ				5.0p	PEØ	TO98	B
70#	ZDT10	300m	150M§	2.4m	§J	10	10	5.0	50m	.01uØ	6.0Ø	.20mØ	20 †Δ				8pØ	PL	L2h	
71#	ZDT11	300m	150M§	2.4m	§J	10	10	5.0	50m	.01uØ	6.0Ø	.20mØ	20 †Δ				8pØ	PL	L2h	
72#	ZDT20	300m	150M§	2.4m	§J	35	35	5.0	50m	.01u	6.0Ø	.20mØ	20 †Δ				8pØ	PL	L2h	
73#	ZDT21	300m	150M§	2.4m	§J	35	35	5.0	50m	.01u	6.0Ø	.20mØ	20 †Δ				8pØ	PL	L2h	
74#	ZTX300	300m	150MΔ§	3.0m	♦A	25	25	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
75#	ZTX301	300m	150MΔ§	3.0m	♦A	35	35	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
76#	ZTX302	300m	150MΔ§	3.0m	♦A	35	35	5.0	500m	200n	6.0Ø	10mØ	100 Δ†				6.0p	PLØ	X59	F
77#	ZTX303	300m	150MΔ§	3.0m	♦A	45	45	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
78#	ZTX304	300m	150MΔ§	3.0m	♦A	70	70	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
79#	BSX21	300m	160M§	2.0m	§J	120	80	5.0	100m	200nØ	1.0Ø	1.0mØ	60 †				3.4p$	PE	TO18	AØ
80#	2SC248	300m	170M§	2.0m	§J	70	60 §	5.0	50m	1.0uØ	6.0Ø	2.5m	60				2.5p	PL	TO18	
81#	2SC318A	300m	170M§	2.0m	§J	50	30	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				4.5pØ	D	TO18	
82#	2SC1175	300m	170M§	3.0m	♦J	50	50	4.0	200m	10uØ	6.0Ø	50mØ	100 †*					PL	u45a	B
83#	BSY72	300m	170M§	2.0m	§J	25	18	5.0	30m	.10uØ	1.0Ø	1.0mØ	80 †Δ	8.0u	5.0k	1.2	6.0p	PE	TO18	AØ
84#	BSY74	300m	170M§	2.0m	§J	25	18	5.0	100m	.10uØ	1.0Ø	1.0mØ	80 †Δ	8.0u	5.0k	1.2	6.0p	PE	TO18	AØ
85#	BSY76	300m	170M§	2.0m	§J	40	32	7.0	250m	.05uØ	1.0Ø	1.0mØ	80 †Δ	7.0u	5.0k	1.0	5.0p	PE	TO18	AØ
86#	BSY78	300m	170M§	2.0m	§J	80	64	7.0	250m	.05uØ	1.0Ø	1.0mØ	80 †Δ	5.5u	5.0k	.80	4.0p	PE	TO18	AØ
87	SK3038-RT	300m	175M§			30	25	7.5	300m				175 †					PE	TO5	AØ
88#	2SC856	300m	180M§			150	150	5.0		1.0m	6.0Ø	10mØ	30 †Δ						TO1	
89#	2SC917	300m	180M§			40	40	3.0	50m	100u	10Ø	10mØ	8.0				1.0p	P	TO1	
90	MPSH04	300m	180M§	2.7m	†J	80	80	4.0	100m	50nØ	10Ø	1.5mØ	120 †Ø	2.0u			1.0p$	ANØ	TO92	A
91	MPSH05	300m	180M§	2.7m	†J	80	80	4.0	100m	50nØ	10Ø	1.5mØ	150 †Ø	2.0u			1.0p$	ANØ	TO92	A
92	JAN2N706†	300m	200M§Δ	2.0m	§S	25	15	5.0		100nØ	1.0Ø	10mØ	30 †Δ				6.0pØ		TO18	AØ
93	2N706A†	300m	200M§Δ	2.0m	§J	25	20	5.0	50m	10u	1.0Ø	10mØ	20 †Δ				5.0pØ		TO18	AØ
94♦	2N753†	300m	200M§Δ	1.7m	§J	25	15	5.0	50m	500nØ	1.0Ø	10mØ	40 †Δ				5.0pØ		TO18	AØ
95	2N783†	300m	200M§Δ	2.0m	§J	40	20 §	5.0	200m	.25uØ	1.0Ø	10mØ	20 †Δ				3.5pØ		TO18	AØ
96	2N784†	300m	200M§Δ	2.0m	§J	30	15 §	5.0	200m	.25uØ	1.0Ø	10mØ	25 Δ				3.5pØ		TO18	AØ
97	2N849†	300m	200M§Δ	2.0m	§S	25	15	5.0	50m	10u	1.0Ø	10mØ	20 †#Δ				5.0pØ		u26a	B
98	2N850†	300m	200M§Δ	2.0m	§S	25	15	5.0	50m	10u	1.0Ø	10mØ	40 †#Δ				5.0pØ		u26a	B
99	2N1708	300m	200M§Δ		§A	25	12	3.0	200m	25nØ	1.0Ø	10mØ	20 †Δ				6.0pØ	Δ	TO46	AØ
100♦	2N2205†	300m	200M§Δ	1.7m	§A	25	12	3.0	200m	25nØ	1.0Ø	10mØ	20 †Δ				6.0pØ		TO46	AØ
101♦	2N2206†	300m	200M§Δ	1.7m	§A	25	12	3.0	200m	25nØ	1.0Ø	10mØ	40 †Δ				6.0pØ		TO46	AØ
102#	2SC478	300m	200M§	1.7m	§J	50	50 Ø	1.5	120m#	1.0uØ	12Ø	20m	20 †				4.0p	PE	TO18	AØ
103#	2SC896	300m	200M§	2.0m	§J	55	30	5.0	200m	1.0uØ	10Ø	5.0m	70				3.5p	PE	TO46	AØ
104#	BC190A	300m	200M	2.0m	§J	70	64	5.0	100m	15n	5.0	2.0m	125 Δ	18u	2.7k	1.5	4.5pØ	PE	TO18	AØ
105#	BC190B	300m	200M	2.0m	§J	70	64	5.0	100m	15n	5.0	2.0m	240 Δ	30u	4.5k	2.0	4.5pØ	PE	TO18	AØ
106#	BCY85	300m	200M§Δ	2.5m	§S	100	60	7.0	200m	5.0nØ	5.0Ø	2.0mØ	100 Δ				5.0pØ	PE†	X55c	A
107#	BCY86	300m	200M§Δ	2.5m	§S	80	50	7.0	200m	5.0nØ	5.0Ø	2.0mØ	250 Δ				5.0pØ	PE†	X55c	A
108#	BF255Ø	300m	200M§	1.3m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †				850ft	PEØ	X93	C
109#	BF255%	300m	200M§	3.0m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †				850ft	PE†	X93	C
110♦#	BF365	300m	200M§	3.3m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †				850ft	PEØ	u121	C

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1#	BF495	300m	200M§	4.0m	§J	30	20	5.0	30m		10Ø	1.0mØ	67 †				850f$	PE†	u135	A
2#	BFY37	300m	200M§△	2.0m	§J	25	20	5.0	100m	.10uØ	10Ø	10mØ	35 †△				2.3p	PL	TO18	
3#	BSW88A†	300m*	200M§△	2.9m	§J	35	30	5.0	100m	100u	1.0Ø	10mØ	100 †△				5.0pØ	PE†	u100	D
4#	BSW88B†	300m*	200M§△	2.9m	§J	35	30	5.0	100m	100u	1.0Ø	10mØ	250 †△				5.0pØ	PE†	u100	D
5#	BSW89A†	300m*	200M§△	2.9m	§J	35	30	5.0	100m	100u	1.0Ø	10mØ	100 †△				5.0pØ	PE†	u99	A
6#	BSW89B†	300m*	200M§△	2.9m	§J	35	30	5.0	100m	100u	1.0Ø	10mØ	250 †△				5.0pØ	PE†	u99	A
7#	BSX24	300m	200M§	2.0m	§J	32	32	5.0	100m	.05uØ	5.0Ø	50mØ	35 †△				5.0p	PE	TO18	
8#	BSX38A†	300m*	200M§△	2.2m	§J	35	30	5.0	100m	100u	1.0Ø	10mØ	100 †△				5.0pØ	PE	TO18	AØ
9#	BSX38B†	300m*	200M§△	2.2m	§J	35	30	5.0	100m	100u	1.0Ø	10mØ	250 †△				5.0pØ	PE	TO18	AØ
10#	BSX66†	300m	200M§△	2.0m	§J	30	20	5.0	100m	.01uØ	0.0	10mØ	40 †△				5pØ$	PE	TO18	AØ
11#	BSX67†	300m	200M§△	2.0m	§J	30	20	5.0	100m	.01uØ	0.0	10mØ	60 †△				5pØ$	PE	TO18	AØ
12#	BSX79A†	300m*	200M§△	2.2m	§J	50	45	5.0	100m	100u	1.0Ø	10mØ	100 †△				5.0pØ	PE	TO18	AØ
13#	BSX79B†	300m*	200M§△	2.2m	§J	50	45	5.0	100m	100u	1.0Ø	10mØ	250 †△				5.0pØ	PE	TO18	AØ
14#	BSX89†	300m	200M§△	2.0m	§J	25	15	5.0	500m	.50uØ	1.0Ø	10mØ	20 †#△				2.5p	DPE	TO18	AØ
15#	BSY26†	300m	200M§△	2.0m	§J	20	15	6.0	100m	25nØ	2.0Ø	10mØ	20 †△				6.0pØ	PE	TO18	AØ
16#	BSY27†	300m	200M§△	2.0m	§J	20	15	6.0	100m	25nØ	2.0Ø	10mØ	40 †△				6.0pØ	PE	TO18	AØ
17#	BSY95A	300m	200M§△	2.0m	§J	20	15	5.0	100m	.05uØ		10mØ	50 †△				6pØ	PE△	TO18	AØ
18#	ME2002	300m	200M§△	2.0m	§J	35	25 *	4.0		50nØ	1.0Ø	10mØ	100 †△				5.0pØ	DPL	R110c	A
19	UPI706A	300m	200M	2.0m	#J	25	20	5.0		10uØ	1.0Ø	10mØ	20				3.5p	ME	TO18	AØ
20#	ZT80†	300m	200M§	2.4m	§J	25	25	4.0	500m	.50u	6.0Ø	1.0mØ	55	5.3u	2.4k	1.5	4.5p	PLØ	TO18	AØ
21#	ZT81†	300m	200M§	2.4m	§J	45	35	4.0	500m	.50u	6.0Ø	1.0mØ	55	5.3u	2.4k	1.5	4.5p	PLØ	TO18	AØ
22#	ZT82†	300m	200M§	2.4m	§J	45	35	4.0	500m	.50u	6.0Ø	1.0mØ	90	5.9u	3.2k	1.8	4.5p	PLØ	TO18	AØ
23#	ZT83†	300m	200M§	1.8m	§J	60	45	5.0	500m	.05u	6.0Ø	1.0mØ	55	5.3u	2.4k	1.5	4.5p	PLØ	TO18	AØ
24#	ZT84†	300m	200M§	1.8m	§J	60	45	5.0	500m	.05u	6.0Ø	1.0mØ	90	5.9u	3.2k	1.8	4.5p	PLØ	TO18	AØ
25#	ZT86†	300m	200M§	1.8m	§J	100	80	5.0	500m	.05u	6.0Ø	1.0mØ	55	5.3u	2.4k	1.5	4.5p	PLØ	TO18	AØ
26#	ZT87†	300m	200M§	2.4m	§J	25	25	4.0	500m	.50u	6.0Ø	1.0mØ	90	5.9u	3.2k	1.8	4.5p	PLØ	TO18	AØ
27#	ZT88†	300m	200M§	1.8m	§J	100	80	5.0	500m	.05u	6.0Ø	1.0mØ	90	5.9u	3.2k	1.8	4.5p	PLØ	TO18	AØ
28	ZT89†	300m	200M§△	1.7m	§J	70	70	5.0	500m	500n	6.0Ø	1.0mØ	90	5.9u	32k	1.8	4.5p	PLØ		
29#	ZT110†	300m	200M§△	2.5m	§J	25	25	4.0	500m	500nØ	6.0Ø	1.0mØ	55	5.3m	2.4k	1.5	4.5pØ	PLØ	TO46	Ø
30#	ZT111†	300m	200M§△	2.5m	§J	45	35	4.0	500m	500nØ	6.0Ø	1.0mØ	55	5.3m	2.4k	1.5	4.5pØ	PLØ	TO46	Ø
31#	ZT112†	300m	200M§	2.5m	§J	45	35	4.0	500m	500n	6.0Ø	1.0mØ	90	5.9m	3.2k	1.8	4.5pØ	PLØ	TO46	Ø
32#	ZT113†	300m	200M§	1.7m	§J	60	45	5.0	500m	50n	6.0Ø	1.0mØ	55	5.3m	2.4k	1.5	4.5pØ	PLØ	TO46	Ø
33#	ZT114†	300m	200M§	1.7m		60	45	5.0	500m	50n	6.0Ø	1.0mØ	90	5.9m	3.2k	1.8	4.5pØ	PLØ	TO46	Ø
34#	ZT116†	300m	200M§	1.7m		100	80	5.0	500m	50n	6.0Ø	1.0mØ	55	5.3m	2.4k	1.5	4.5pØ	PLØ	TO46	Ø
35#	ZT117†	300m	200M§	2.5m	§J	25	25	4.0	500m	500n	6.0Ø	1.0mØ	90	5.9m	3.2k	1.8	4.5pØ	PLØ	TO46	Ø
36#	ZT118†	300m	200M§	1.7m	§J	100	80	5.0	500m	50n	6.0Ø	1.0mØ	90	5.9m	3.2k	1.8	4.5pØ	PLØ	TO46	Ø
37#	ZT119†	300m	200M§	1.7m	§J	70	70	5.0	500m	50n	6.0Ø	1.0mØ	90	5.9m	3.2k	1.8	4.5pØ	PLØ	TO46	Ø
38#	ZT706	300m	200M§△	2.0m	§J	25	20 §	3.0		500nØ	1.0Ø	10mØ	20 †				5.0p	PL	TO18	Ø
39#	ZT706A†	300m	200M§△	2.0m	§J	25	20 §	5.0		500nØ	1.0Ø	10mØ	20 †				5.0p	PL	TO18	Ø
40#	ZT1708†	300m	200M§△	2.0m	§	25	20	3.0	200m	25n	1.0Ø	10mØ	20 †△				6.0pØ	PE	TO46	
41#	ZT2205†	300m	200M§△	2.0m		25	20	3.0	200m	25n	1.0Ø	10mØ	20 †△				6.0pØ	PE	TO18	
42#	ZT2206†	300m	200M§△		§A	25	20 §	3.0	200m	25nØ	1.0Ø	10	40 †△				6.0pØ	PL	TO46	Ø
43#	ZTX310†	300m	200M§△	3.0m	♦S	25	20 §	3.0	200m#	200nØ	1.0Ø	10mØ	20 †△				6.0pØ	PL	X59	F
44#	ZTX311†	300m	200M§△	3.0m	♦S	20	15	5.0	200m#	200nØ	.35Ø	1.0mØ	30 †△				6.0pØ	PL	X59	F
45#	BSY80	300m	210M§	2.0m	§J	25	18	5.0	100m	.10uØ	1.0Ø	1.0mØ	200 †△	15u	12k	1.5	6.0p	PE	TO18	AØ
46#	BFY18†	300m	245M§	2.0m	§J	40	25	3.0	100m	10u	9.0Ø	10mØ	64				3.8p	PLØ	TO5	
47	2N2256†	300m	250M§△	2.0m	§J	7.0	7.0	1.0	100m	10uØ	1.0Ø	10mØ	30 †				4.0p	ME	TO18	A
48	2N2257†	300m	250M§△	2.0m	§J	7.0	7.0	1.0	100m	10uØ	1.0Ø	10mØ	50 †				4.0p	E	TO18	A
49	2N4140†	300m	250M§△	3.0m	♦J	60	30	5.0	200m	50u#	10Ø	150mØ	120 †Ø				8.0pØ		R110	A
50	2N4141†	300m	250M§△	3.0m	♦J	60	30	5.0	200m	50u#	10Ø	150mØ	300 †Ø				8.0pØ		R110	A
51	2N4227†	300m	250M§△	3.0m	♦J	60	30	5.0	200m	50u#	10Ø	150mØ	150 †Ø				8.0pØ		R110	A
52#	2S512	300m	250M§△	2.0m	§J	25	12	5.0		.50uØ	1.0Ø	10mØ	50 †△				6pØ	PE	TO18	
53#	2SC1541	300m	250M§	3.0m	♦J	40	32	5.0	150m	1.0uØ	3.0Ø	10mØ	820 †Ø				4.5p	PE	TO106	A
54#	2SC1542	300m	250M§	3.0m	♦J	25	20	5.0	150m	1.0uØ	3.0Ø	10mØ	820 †Ø				4.5p	PE	TO106	A
55#	BC167A	300m	250M§	2.4m	§J		45	6.0	100m	15n§	5.0Ø	2.0mØ	170 †	18u	2.7k	1.5	4.5pØ	PE†	TO92	D
56#	BC167B	300m	250M§	2.4m	§J		45	6.0	100m	15n§	5.0Ø	2.0mØ	290 †	30u	4.5k	2.0	4.5pØ	PE†	TO92	D
57#	BC168A	300m	250M§	2.4m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	170 †	18u	2.7k	1.5	4.5pØ	PE†	TO92	D
58#	BC168B	300m	250M§	2.4m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	290 †	30u	4.5k	2.0	4.5pØ	PE†	TO92	D
59#	BC168C	300m	250M§	2.4m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	500 †	60u	8.7k	3.0	4.5pØ	PE†	TO92	D
60#	BC171A	300m	250M§	3.0m	♦J		45	5.0	100m	15n	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p$	PE†	X64	A
61#	BC171B	300m	250M§	3.0m	♦J		45	5.0	100m	15n	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p$	PE†	X64	A
62#	BC172A	300m	250M§	3.0m	♦J		20	5.0	100m	15n	5.0Ø	2.0mØ	125 △	18u	2.7k	1.5	4.0p$	PE†	X64	A
63#	BC172B	300m	250M§	3.0m	♦J		20	5.0	100m	15n	5.0Ø	2.0mØ	240 △	30u	4.5k	2.0	4.0p$	PE†	X64	A
64#	BC172C	300m	250M§	3.0m	♦J		20	5.0	100m	15n	5.0Ø	2.0mØ	450 △	60u	8.7k	3.0	4.0p$	PE†	X64	A
65#	BC174A	300m	250M§	3.0m	♦J		64	5.0	100m	15u	5.0Ø	10uØ	90 †	18u	2.7k	1.5	4.5p$Ø	PE†	X64e	A
66#	BC174B	300m	250M§	3.0m	♦J		64	5.0	100m	15u	5.0Ø	10uØ	150 †	30u	4.5k	2.0	4.5p$Ø	PE†	X64e	A
67#	BC222	300m	250M§	3.0m	♦J	30	30	5.0	500m	50n	7.0Ø	200uØ	20 †△	105m	425	1.2	11p	DPE	TO105	
68#	BC237△	300m	250M§	2.2m	§J		45	6.0	100m	200p§	5.0Ø	2.0 Ø	330 *	30u	4.5k	2.0	4.5pØ	PE	X64a	C
69#	BC238△	300m	250M§	2.2m	§J		20	5.0	100m	200p§	5.0Ø	2.0 Ø	330 *	30u	4.5k	2.0	4.5pØ	PE	X64a	C
70#	BC413B	300m	250M§	2.5m	§J	45	30	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p	PEØ	X64c	A
71#	BC413C	300m	250M§	2.5m	§J	45	30	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p	PEØ	X64c	A
72#	BC414B	300m	250M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p	PEØ	X64c	A
73#	BC414C	300m	250M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p	PEØ	X64c	A
74#	BCY56	300m	250M§		§J	45	45	5.0	100m	100nØ	5.0Ø	2.0mØ	250	17u	3.5k	1.7	4.5p$	PEØ	TO18	AØ
75#	BF234	300m	250M§	3.0m	♦J	30	30	4.0	30m	1nØ	10Ø	1.0mØ	150 †				.75pt	PEØ	R110	C
76#	BF235	300m	250M§	3.0m	♦J	30	30	4.0	30m	1nØ	10Ø	1.0mØ	70 †				.75pt	PEØ	R110	C
77#	BSX76†	300m	250M§	2.0m	§J	20	20	5.0	100m	.05uØ	.40Ø	10mØ	80 †					PL	TO18	AØ
78#	BSX77†	300m	250M§	2.0m	§J	40	20	5.0	100m	.05uØ	.50Ø	10mØ	80 †					PL	TO18	AØ
79	UPI2222	300m	250M	3.3m	#J	60	35	5.0	800m	100n	10	1.0mØ	50 †				8.0p		TO18	AØ
80#	BF254Ø	300m	260M§	1.3m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				850ft	PEØ	X93	C
81#	BF254%	300m	260M§	3.0m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				850ft	PE†	X93	C
82♦#	BF364	300m	260M§	3.3m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				850ft	PEØ	u121	C
83#	BF494	300m	260M§	4.0m	§J	30	20	5.0	30m		10Ø	1.0mØ	115 †				850f$	PE†	u135	A
84	2N743†	300m	280M§△	2.0m	§S	20	12	5.0	200m	1.0u	.35Ø	10mØ	20 †△				5.0pØ		TO18	AØ
85	2N744†	300m	280M§△	2.0m	§S	20	12	5.0	200m	1.0u	.35Ø	10mØ	40 †△				5.0pØ		TO18	AØ
86	JAN2N744†	300m	280M§△	2.0m	§J	20	15	5.0	200m	500n	.35Ø	10mØ	40 †△				5.0pØ		TO18	AØ
87	2N851†	300m	280M§△	2.0m	§S	20	12	5.0	200m	1.0u§	.25Ø	1.0mØ	10 †△				5.0pØ		u26a	B
88	2N852†	300m	280M§△	2.0m	§S	20	12	5.0	200m	1.0u§	.25Ø	1.0mØ	20 †△				5.0pØ		u26a	B
89#	BSX78†	300m	285M§	2.0m	§J	40	20	5.0	100m	.05uØ	.50Ø	10mØ	120 †					PL	TO18	AØ
90#	ZDT40*	300m	290M§	2.0m	§J	45	35 Ø	4.0	500m#	.50u	6.0Ø	10mØ	200 †#Ø				8pØ	PL	L2d	
91#	ZDT41*	300m	290M§	2.0m	§J	60	45 Ø	7.0	500m#	.05u	6.0Ø	10mØ	170 †#Ø				8pØ	PL	L2d	
92#	ZDT42*	300m	290M§	2.0m	§J	60	60 Ø	7.0	500m#	.05u	6.0Ø	1.0mØ	180 †Ø				8pØ	PL	L2d	
93#	ZDT44*	300m	290M§	2.0m	§J	60	60 Ø	7.0	500m#	.05u	6.0Ø	1.0mØ	180 †Ø				8pØ	PL	L2d	
94#	ZDT45*	300m	290M§	2.0m	§J	100	70 Ø	7.0	500m#	.05u	6.0Ø	1.0mØ	60 †△				8pØ	PL	L2d	
95	2N988	300m	300M§△	6.7k	§J	20	10	3.0	220m	500nØ	1.0Ø	10mØ	20 †△				4.0pØ		TO18	AØ
96	2N989	300m	300M§△	6.7k	§J	20	10	3.0	220m	500nØ	1.0Ø	10mØ	20 †△				3.5pØ		TO18	AØ
97	2N1708A†	300m	300M§△	1.7m	§J	40	15	5.0	500m	25nØ	1.0Ø	10mØ	30 †△				6.0pØ		TO46	AØ
98	2N2319†	300m	300M§△	1.7m	§S	30	15	5.0		50nØ	.40Ø	20m	40 †△				5.0pØ		TO46	AØ
99	2N3261†	300m	300M§△	2.0m	§S	40	15	6.0	500m		1.0Ø	200mØ	20 †#△				3.5pØ		TO52	AØ
100♦	2N3425*	300m	300M§△	1.7m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	20 △				6.0pØ	△	L2t	
101#	2SC383	300m	300M§△	3.0m	♦J	75	40	3.0	50m	25uØ	13Ø	12mØ	20 †△				2.0pØ	PE†	R67a	B
102#	2SC735	300m	300M§	3.0m	♦J	35	30	5.0	400m	.10uØ	1.0Ø	100mØ	40 †△*				7.0p	PE	R67a	B
103#	2SC1216†	300m	300M§		§J						1.0Ø	10mØ	140 †				6.0pØ	PE	TO18	AØ
104	40405	300m	300M§△	2.0m	§J		16	6.0	500m	.40u§	1.0Ø	100mØ	20 †△				3.5pØ	PE	TO52	AØ
105	40519	300m	300M§△	2.0m	§J		16	5.0	500m	25n	1.0Ø	50mØ	20 †△				3.5pØ	PE	TO52	A
106	40637	300m	300M§	2.0m	§J		30 Ø	5.0	100m								3.0p	PE	TO52	AØ
107	A157A	300m	300M§	2.0m	§J	50	45	5.0	100m	15utØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	TO18	AØ
108	A157B	300m	300M§	2.0m	§J	50	45	5.0	100m	15utØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	TO18	AØ
109	A158B	300m	300M§	2.0m	§J	30	20	5.0	100m	15utØ	5.0	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	TO18	AØ
110	A158C	300m	300M§	2.0m	§J	30	20	5.0	100m	15utØ	5.0	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE	TO18	AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	A159B	300m	300M§	2.0m	§J	30	20	5.0	100m	15uτØ	5.0	2.0mØ	330	30u	4.5k	2.0	2.5p$	PEØ	TO18	AØ
2	A159C	300m	300M§	2.0m	§J	30	20	5.0	100m	15uτØ	5.0	2.0mØ	600	60u	8.7k	3.0	2.5p$	PEØ	TO18	AØ
3#	BC107	300m	300M§	2.0m	§J	50	45	6.0	100m	15uØτ	5.0Ø	2.0mØ	125 Δ				9.0p$	PEØ	TO18	AØ
4#	BC107A	300m	300M§	2.0m	§J	50	45	6	100m	15uØ	5.0Ø	2.0mØ	210	18	3.0	1.0	2.5p$	PE	TO18	A
5#	BC107B	300m	300M§	2.0m	§J	50	45	6	100m	15uØ	5.0Ø	2.0mØ	330	30	5.0	1.3	2.5p$	PE	TO18	A
6#	BC108	300m	300M§	2.0m	§J	30	20	5.0	100m	15uØτ	5.0Ø	2.0mØ	125 Δ				9.0p$	PEØ	TO18	AØ
7#	BC108A	300m	300M§	2.0m	§J	30	20	5	100m	15uØ	5.0Ø	2.0mØ	210	18	3.0	1.0	2.5p$	PE	TO18	A
8#	BC108B	300m	300M§	2.0m	§J	30	20	5	100m	15uØ	5.0Ø	2.0mØ	330	30	5.0	1.3	2.5p$	PE	TO18	A
9#	BC108C	300m	300M§	2.0m	§J	30	20	5	100m	15uØ	5.0Ø	2.0mØ	600	50	7.5	2.3	2.5p$	PE	TO18	A
10#	BC109	300m	300M§	2.0m	§J	30	20	5.0	100m	15uØτ	5.0Ø	2.0mØ	240 Δ				9.0p$	PEØ	TO18	AØ
11#	BC109B	300m	300M§	2.0m	§J	30	20	5	100m	15uØ	5.0Ø	2.0mØ	330	30	5.0	1.3	2.5p$	PEØ	TO18	A
12#	BC109C	300m	300M§	2.0m	§J	30	20	5	100m	15uØ	5.0Ø	2.0mØ	600	50	7.5	2.3	2.5p$	PEØ	TO18	A
13#	BC169B	300m	300M§	2.4m	§J		20	5.0	50m	15n§	5.0Ø	2.0mØ	290 †	30u	4.5k	2.0	4.5pØ	PEØ	TO92	D
14#	BC169C	300m	300M§	2.4m	§J		20	5.0	50m	15n§	5.0Ø	2.0mØ	500 †	60u	8.7k	3.0	4.5pØ	PEØ	TO92	D
15#	BC173B	300m	300M§	3.0m	♦J		20	5.0	100m	15n	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p$	PE†	X64	A
16#	BC173C	300m	300M§	3.0m	♦J		20	5.0	100m	15n	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p$	PE†	X64	A
17#	BC237%	300m	300M§	3.0m	♦J	50	45	6.0	100m	15uØτ	5.0Ø	2.0mØ	125 Δ				2.5p$	PE	X93	A
18#	BC237A	300m	300M§	3.0m	♦J	50	45	6.0	100m	5.0uτØ	5.0Ø	10uØ	220 †Ø	18u	2.7k	1.5	2.5p$	PEØ	X64e	A
19#	BC237B	300m	300M§	3.0m	♦J	50	45	6.0	100m	5.0uτØ	5.0Ø	10uØ	450 †Ø	30u	4.5k	2.0	2.5p$	PEØ	X64e	A
20#	BC238%	300m	300M§	3.0m	♦J	30	20	5.0	100m	15uØτ	5.0Ø	2.0mØ	125 Δ				2.5p$	PE	X93	A
21#	BC238A	300m	300M§	3.0m	♦J	30	20	5.0	100m	5.0uτØ	5.0Ø	10uØ	220 †Ø	18u	2.7k	1.5	2.5p$	PEØ	X64e	A
22#	BC238B	300m	300M§	3.0m	♦J	30	20	5.0	100m	5.0uτØ	5.0Ø	10uØ	450 †Ø	30u	4.5k	2.0	2.5p$	PEØ	X64e	A
23#	BC238C	300m	300M§	3.0m	♦J	30	20	5.0	100m	5.0uτØ	5.0Ø	10uØ	800 †Ø	60u	8.7k	3.0	2.5p$	PEØ	X64e	A
24#	BC239Δ	300m	300M§	2.2m	§J		20	5.0	50m	200p§	5.0Ø	2.0 Ø	330 *	30u	4.5k	2.0	4.5pØ	PEØ	X64a	C
25#	BC239%	300m	300M§	3.0m	♦J	30	20	5.0	100m	15uØτ	5.0Ø	2.0mØ	240 Δ				2.5p$	PEØ	X93	A
26#	BC239B	300m	300M§	3.0m	♦J	30	20	5.0	100m	5.0uτØ	5.0Ø	10uØ	450 †Ø	30u	4.5k	2.0	2.5p$	PEØ	X64e	A
27#	BC239C	300m	300M§	3.0m	♦J	30	20	5.0	100m	5.0uτØ	5.0Ø	10uØ	800 †Ø	60u	8.7k	3.0	2.5p$	PEØ	X64e	A
28#	BCW54	300m	300M§	2.0m	§J	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	3.7p	PE	TO18	AØ
29#	BCW55	300m	300M§	2.0m	§J	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	3.7p	PE	TO18	AØ
30	BF165	300m	300M§	3.0m	♦J	30	15	4.0		.10uØ	10Ø	2.0mØ	35 †#				1.5pτ	DPLØ	R97	
31#	BFV83	300m	300M§Δ	588u	§J	40	15	5.0		25nØ	1.0Ø	500uØ	15 †Δ				6.0pØ	PEΔ	u26a	B
32#	BFV83A†	300m	300M§Δ	588u	§J	40	20	5.0		25nØ	1.0Ø	10mØ	30 †Δ#				6.0pØ	PE	u26a	B
33#	BSS10	300m	300M§Δ	2.0m	§S	40	15	6.0	500m		1.0Ø	200mØ	20 †#Δ				35pØ		TO18	AØ
34#	BSW42†	300m	300M§	3.0m	♦J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	R110	A
35#	BSW42A†	300m	300M§	3.0m	♦J	50	50	7.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	R110	A
36#	BSW43†	300m	300M§	3.0m	♦J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	300 †				4.0p	E	R110	A
37#	BSW43A†	300m	300M§	3.0m	♦J	50	50	7.0	200m	.50u	4.5Ø	2.0mØ	300 †				4.0p	E	R110	A
38#	BSX51†	300m	300M§	2.0m	§A	25	25	5.0	200m	500n	4.5Ø	2.0mØ	130 †				8.0pØ	PE	TO18	Ø
39#	BSX51A†	300m	300M§	2.0m	§A	50	50	7.0	200m	500n	4.5Ø	2.0mØ	130 †				8.0pØ	PE	TO18	Ø
40#	BSX52†	300m	300M§	2.0m	§A	25	25	5.0	200m	500n	4.5Ø	2.0mØ	300 †				8.0pØ	PE	TO18	Ø
41#	BSX52A†	300m	300M§	2.0m	§A	50	50	7.0	200m	.50u	4.5Ø	2.0mØ	300 †				8pØ	PE	TO18	
42#	BSX90†	300m	300M§Δ	2.0m	§J	20	12	5.0	200m	1.0u	.35Ø	10mØ	20 †#Δ				5pØ	DPE	TO18	AØ
43#	BSX91†	300m	300M§Δ	2.0m	§J	20	12	5.0	200m	1.0u	.35Ø	10mØ	40 †#Δ				5pØ	DPE	TO18	AØ
44#	MA4101	300m	300M§	2.4m	§J	60	45	5.0		10nØ	5.0Ø	1.0mØ	70 †Δ				2.5p	PE	TO18	
45#	MA4102	300m	300M§	2.4m	§J	60	45	5.0		10nØ	5.0Ø	1.0mØ	200 †Δ				2.5p	PE	TO18	
46#	MA4103	300m	300M§	2.4m	§J	50	40	5.0		10nØ	5.0Ø	1.0mØ	100 †Δ				2.5p	PE	TO18	
47#	MA4104	300m	300M§	2.4m	§J	25	25	4.0		50nØ	5.0Ø	1.0mØ	50 †Δ				2.5p	PE	TO18	
48	PE5013	300m	300M§Δ	3.5m	§J	20	20	3.0	100m#	50nØ	5.0Ø	4.0mØ	20 †Δ				400f$Ø			
49	PE5015	300m	300M§Δ	3.5m	§J	20	20	3.0	100m#	50nØ	5.0Ø	4.0mØ	20 †Δ				500p$Ø			
50#	BSY70	300m	320M Δ	2.0m	§J	25	20 §	3.0		50nØ	1.0Ø	10mØ	20 †Δ#				6.0pØ	Δ	TO18	Ø
51	UPI706	300m	320M	2.0m	#J	25	20	4.0		54mØ	1.0Ø	10mØ	20 †#Δ				6.0p	D	TO18	AØ
52	2N834†	300m	350M§Δ	2.0m	§J	40	30 Ø	5.0	200m	500nØ	1.0Ø	10mØ	25 †Δ				4.0pØ		TO18	AØ
53#	2S131	300m	350M	2.0m	§A	15	12	5.0	200m	1.0uØ	1.0Ø	10mØ	40				3.5p	E	TO18	
54#	2SC54†	300m	350M§	2.3m	§J	40	35 §	5.0	100m	30nØ	6.0Ø	1.0m	50	100nb	28	1.5	4.0p	PLΔ	TO18	
55#	2SC98†	300m	350M§		§J	20	15	5.0	100m	.10u	.35Ø	10mØ	45 †					PE	TO18	
56#	2SC99†	300m	350M§		§J	20	15	5.0	100m	.10u	.35Ø	10mØ	80 †					E	TO18	
57#	2SC172	300m	350M§	2.0m	§J	25	20 §	5.0	50m	.10uØ	6.0Ø	10m	60				5.0p	PL	TO18	
58#	BC125B	300m	350M§		♦	60	30	6.0		50n	1.0Ø	10mØ	45 †Δ				5.0p	PE	TO105	A
59#	BCY57	300m	350M§		§J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	500	17u	7.5k	3.5	4.5p$	PEØ	TO18	AØ
60#	BFR26	300m	350M§Δ	2.4m	§S	30	20	5.0	120m	10u§	.80Ø	50mØ	15 †Δ				2.0pØ	Δ	TO18	AØ
61#	BFV83B†	300m	350M§Δ	588u	§J	40	40	5.0	200m	.30u§	.40Ø	30mØ	30 †#Δ				5pØ	PE	u26a	B
62#	BFV83C†	300m	350M§Δ	588u	§J	40	40	5.0	200m	.30u§	.40Ø	10mØ	25 †#Δ				5pØ	PE	u26a	B
63#	BSY38†	300m	350M§	2.0m	§J	20	15	5.0	200m	100n	.35Ø	10mØ	30 †Δ				5.0p	PE	TO18	Ø
64#	BSY39†	300m	350M§	2.0m	§J	20	15	5.0	200m	100n	.35Ø	10mØ	40 †Δ				5.0p	PE	TO18	Ø
65#	C111E†	300m	350M§	1.7m	§S	25	12	5.0		.05uØ	1.0Ø	10mØ	70 †#				4.5p	PE	TO18	AØ
66#	C444	300m	350M§	2.0m	§J	50	35	4.0		30nØ	5.0Ø	5.0mØ	80	30u	1.0k		3.0p	DPL	TO18	AØ
67#	ZT2938†	300m	350M§Δ	2.0m	§J	25	13	5.0	500m	25n#	1.0Ø	200mØ	10 †Δ#				4.0pØ	PE	TO18	Ø
68#	ZTX114	300m	350M§	2.0m	§S	30	25	6.0		200nØ	5.0Ø	2.0mØ	350 †					PEØ	X59	F
69	2N3828	300m	360M§Δ	3.0m	§S	40	40	3.0	100m	100nØ	20Ø	12mØ	30 †#Δ				5.0pØ		TO92	B
70	PE5010	300m	375M§Δ	3.5m	§J	30	30	3.0	100m#	50nØ	5.0Ø	4.0mØ	25 †Δ				500f$Ø			
71#	BSY28†	300m	380M§	2.0m	§J	15	12	3.0	100m	.05uØ	2.0Ø	10mØ	34 †				3.5p	PEØ	TO18	
72#	BSY29†	300m	380M§	2.0m	§J	15	12	3.0	100m	.05uØ	2.0Ø	10mØ	54 †				3.5p	PEØ	TO18	
73	LDA410	300m	380MΔ§	2.9m	§J	40	35 §	4.0	25m	.10uØ	10Ø	5.0mØ	3.8 Δ				.3pØ	E	TO122	P
74	2N706	300m	400M§	6.6m	§J	25	20 §	3.0		500nØ	10	10mØ	20 †Δ#				6.0p	DME	TO18	AØ
75	2N706B†	300m	400M§	2.0m	§J	25	20 §	5.0		10u	1.0Ø	10mØ	40 †				4.5p	ME	TO18	AØ
76	2N707	300m	400M*		§J	56	28 §	4.0		5.0uØ	1.0Ø	10mØ	12				5.0p		TO18	AØ
77	2N3337†	300m	400M§Δ	1.7m	§J	40	40	4.0		25nØ	10Ø	4.0mØ	30 †Δ				1.6pØ	PL	TO72	G
78	2N3338†	300m	400M§Δ	1.7m	§J	40	40	4.0		25nØ	10Ø	4.0mØ	30 †Δ				1.6pØ	PL	TO72	G
79	2N3339†	300m	400M§Δ	1.7m	§J	40	40	4.0		25nØ	10Ø	4.0mØ	30 †Δ				1.6pØ	PL	TO72	G
80	2N5186†	300m	400M§Δ	1.7m	§S	10	5.0	3.0	300m	5.0uØ	1.0Ø	10mØ	25 †Δ				3pØ		TO52	AØ
81	2N5187†	300m	400M§Δ	1.7m	§S	25	10	5.0	500m	.45uØ	1.0Ø	10mØ	30 †Δ				3.5pØ		TO52	AØ
82#	2SC356†	300m	400M§	2.0m	§J	30	15	5.0	200m	1.0uØ	1.0Ø	10mØ	60 †				4.5p	PE	TO46	AØ
83#	2SC979	300m	400M§		§J	70	50	5.0	100m	1.0uØ	1.0Ø	10mØ	70 †				3.0p	PE	TO18	A
84#	2SC1129	300m	400M§	4.0m	§S		35	3.0	30m	200nØ	10Ø	4.0mØ	20 †Δ				450f†	E†	TO92	C
85#	2SC1293	300m	400M§	3.0m	♦J	25	25	3.0	50m	1.0uØ	6.0Ø	1.0mØ	120 †Ø*					E	u45a	B
86	BF154	300m	400M§	3.0m	♦J	30	20	4.0		.50uØ	10Ø	10mØ	50 †#				2.0p	DPL	R97	
87#	BFV87†	300m	400M§Δ	588u	§J	40	40	4.5	500m	.40uØ	1.0Ø	10mØ	20 †#Δ				4pØ	PE	u26a	B
88#	BFY19	300m	400M§	2.0m	§J	30	20	3.0	100m	10u	9.0Ø	10mØ	110				4.0p	PLØ	TO18	
89#	BFY79	300m	400M§Δ	1.7m	§J	30	30	4.0		25nØ	10Ø	4.0mØ	30 †Δ				1.6pØ	DPLØ	TO72	G
90	SE6020†	300m	400M§	5.9m	♦J	60	60	6.5	1	.10uØ	10Ø	1.0mØ	100 †				11p$	DPEΔ	TO105	A
91	SE6021†	300m	400M§	5.9m	♦J	80	80	6.5	1	.10uØ	10Ø	1.0mØ	120 †				11p$	DPEΔ	TO5	A
92	UPI706B	300m	400M	2.0m	#J	25	15	5.0		10u	1.0Ø	10mØ	40 †				4.5p	ME	TO18	AØ
93#	ZTX312†	300m	400M§Δ	3.0m	♦S	30	12	5.0	500m#	200nØ	1.0Ø	10mØ	40 †Δ				4.0pØ	PL	X59	F
94	2N835†	300m	450M§	2.0m	§	25	20	3.0	200m	.50uØ	1.0Ø	10mØ	40 †				2.8p	ME	TO18	AØ
95♦#	2SC388A	300m	450M§	2.0m	♦J	25	25	3.0	50m	500nØ	12Ø	12mØ	20 †Δ*				2.0pØ	PE†	R67a	B
96#	2SC595†	300m	450M§		§J	30	20	5.0	200m	1.0uØ	1.0Ø	10mØ	80 †				6pØ	PE	TO18	
97#	BF314Δ	300m*	450M§	2.9m	§J	30	30 *	4.0	25m	10u	10Ø	4.0 Ø	29 †Δ					PEØ†	u99	A
98	2N2615	300m	500M§Δ	1.7m	§J	30	15	3.0		1.0nØ	1.0Ø	3.0mØ	20 †Δ				2.8pØ	Ø	TO18	AØ
99	2N2938†	300m	500M§Δ	2.0m	§S	25	13	5.0	500m		1.0Ø	200mØ	10 †ΔØ				4.0pØ		TO52	A
100	2N4449†	300m	500M§Δ	1.7m	§S		15	4.5	200m	.40u§	.35Ø	10mØ	40 †#Δ				4p$Ø		TO46	A
101	JAN2N4449†	300m	500M§Δ	1.7m	§J	40	15	4.5		30uØτ	1.0Ø	10mØ	40 †Δ				4.0pØ	PE	TO46	AØ
102#	2SC79	300m	500M§	2.0m	§J	15	15 §	3.0	50m	1.0uØ	6.0Ø	1.0m	50				2.3p	ME	TO18	
103#	BFV87A†	300m	500M§Δ	588u	§J	40	40	4.5	500m	.40uØ	1.0Ø	10mØ	40 †#Δ				4pØ	PE	u26a	B
104#	BFV87B†	300m	500M§Δ	588u	§J	40	40	4.5	200m	30uØ	.35Ø	10mØ	40 †#Δ				4pØ	PE	u26a	B
105#	ZTX313†	300m	500M§Δ	3.0m	♦S	40	15	5.0	500m#	200nØ	1.0Ø	10mØ	40 †Δ				4.0pØ	PL	X59	F
106#	ZTX314†	300m	500M§Δ	3.0m	♦S	40	15	5.0	500m#	200nØ	1.0Ø	10mØ	40 †Δ				4.0pØ	PL	X59	F
107	2N4104	300m	540M§Ø	2.0m	§S	60	60	10	50m	.01uØ	5.0Ø	1.0mØ	1.4kØ	60uØ	42kØ	8 Ø	4.5pØ	Ø	TO18	AØ
108#	2SC1123	300m	560M§	4.0m	§S	35	35	3.0	100m	200nØ	3.0Ø	1.0mØ	20 †Δ				2.0pØ	E†	TO92	A
109#	2SC601†	300m	580M§		§J	40	15	5.0	100m	.10uØ	1.0Ø	10mØ	60 †				4pØ	PE	TO18	
110#	BF310Δ	300m	580M§Ø	2.9m	§J	30	30 *	4.0	25m	10u	10Ø	4.0mØ	29 †Δ				1.6pØ	PE†	u99	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	2N709†	300m	600M§Δ	1.7m	§J	15	6.0	4.0		50nØ	.50Ø	10mØ	20 †Δ				3.0pØ		TO18		AØ
2	2N2475†	300m	600M§Δ	1.7m	§S	15	6.0	4.0		50nØ	.50Ø	50mØ	20 †Δ				3.0pØ		R64		AØ
3	2N2616	300m	600M§Δ	1.7m	§J	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	20 †Δ				2.8pØ	Ø	TO18		AØ
4	2N3010†	300m	600M§Δ	1.7m	§J	15	6.0	4.0	50m	10u§	.40Ø	1.0mØ	15 †Δ				3pØ		TO18		AØ
5	2N3423*	300m	600M§Δ	1.7m	§J	30	15	3.0	50m	.01uØ	3.0Ø	3.0mØ	20 †Δ				1.7pØ	*	L2t		
6	2N3424*	300m	600M§Δ	1.7m	§J	30	15	3.0	50m	.01uØ	3.0Ø	3.0mØ	20 †Δ				1.7pØ	*	L2t		
7	2N3544	300m	600M§Δ	2.0m	§S	25	25 Ø	3.0	100m	.10uØ	10Ø	10mØ	25 †Δ				2.5pØ		TO18		AØ
8#	2SC1374H†	300m	600M§Δ	2.0m	§J	25	13	4.0	100m	250nØ	1.0Ø	70mØ	30 †Δ				3.5pØ	PE	TO18		A
9	BSX44	300m	600M§Δ			15		4.0	200m#			20mØ	30 †Δ					PE	TO18		
10	FT709†	300m	600M§Δ	1.7m	§J						.40Ø	10mØ	30 †Δ				3pØ	PE	TO18		AØ
11	HEP709-RT	300m♦	600M§		†J	30	15 $	3.0	50m$	1.0u$	15		120 †						TO72		G
12	MD918*	300m	600M§Δ	1.9m	§J	30	15	5.0	50m	10nØ	5.0Ø	1.0mØ	50 †Δ				3.0p	ANØ	L66a		
13	MD918A*	300m	600M§Δ	1.9m	§J	30	15	5.0	50m	10nØ	5.0Ø	1.0mØ	50 †Δ				3.0p	ANØ	L66a		
14	MD918B*	300m	600M§Δ	1.9m	§J	30	15	5.0	50m	10nØ	5.0Ø	1.0mØ	50 †Δ				3.0p	ANØ	L66a		
15	MM1941	300m	600M§Δ	2.0m	§J	30	30 Ø	3.0	200m	.10uØ	.10Ø	10mØ	50 †				2.5pØ	E	TO18		AØ
16#	ZT709†	300m	600M§Δ	1.7m	§J	15	6.0	4.0		.05uØ	.50Ø	10mØ	55 †				3pØ	PL	TO18		
17#	ZT2475†	300m	600M§Δ	1.7m	§J	15	6.0	4.0		.05uØ	.40Ø	20mØ	50 †				2.4p	PE	R64		
18#	2SC1128	300m	630M§	4.0m	$S		35	3.0	100m	300nØ	3.0Ø	1.0mØ	70 †				2.0pØ	E†	TO92		C
19#	SL918	300m	730M§	3.0m	♦A	30	15	3.0	60m	10nØ	1.0Ø	3.0mØ	20 †Δ				350ft	DPE	u29		A
20#	SL3693	300m	730M§	3.0m	♦A	30	12	2.0	60m	50nØ	10Ø	8.0mØ	20 †Δ					DPE	u29		A
21	2N709A†	300m	800M§	1.7m	§J	15	6.0	4.0		5.0nØ	.50Ø	10mØ	60 †				3.0pØ	PE	TO18		AØ
22#	BSX27†	300m	800M§	1.7m	§J	15	6.0	4.0	♦	10u§	.40Ø	10mØ	80 †#				2.3p	DPE			
23#	BFX32	300m	850M§Δ	3.1m	♦J	35	25	4.0	30m		10Ø	7.0mØ	30 †Δ				1.5p	PE	MM11		C
24	2N2729	300m	900M§Δ	1.7m	§J	30	15	3.0	50m	.01uØ	1.0Ø	3.0mØ	50 †				2.4p	PEØ	TO46		AØ
25	2N5200§	300m	900M§Δ	1.7m	▼J	20	20	4.5	100m	.01uØ	5.0Ø	.50mØ	45 †Δ				2.5p$		TO46		AØ
26#	BFY78	300m	900M§	1.7m	§J	25	12	3.0	50m	.02uØ	1.0Ø	3.0mØ	50 †				2.4p	DPEØ	TO18		AØ
27	2N2784†	300m	1.0G§Δ	1.7m	§J	15	6.0	4.0		5.0nØ	.50Ø	10mØ	40 Δ				3.0pØ		TO18		AØ
28	K2101	300m	1.0G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
29	K2102	300m	1.0G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
30	K2103	300m	1.0G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
31	K2104	300m	1.0G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
32	K2105	300m	1.0G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
33	K2106	300m	1.0G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
34	K2107	300m	1.0G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
35	K2108	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO50		C
36	K2523	300mØ	1.0G§	1.7m	§J	20	10	2.0		.30uØ	1.0Ø	3.0mØ	20 †Δ				1.5pØ		TO72		G
37	K2601	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
38	K2602	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
39	K2603	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
40	K2604	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
41	K2610	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
42	K2611	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
43	K2612	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
44	K2613	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
45	K2614	300m	1.0G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
46	2N5201§	300m	1.1G§Δ	1.7m	▼J	20	20	4.5	100m	.01uØ	5.0Ø	.50mØ	65 †Δ				2.5p$		TO46		AØ
47	SK3039-RT	300m	1.2G§			20	12	2.5	40m				60 †					PE	TO72		G
48	2N3633†	300m	1.3G§Δ	1.7m	§J	15	6.0	4.0	50m	5.0nØ	.50Ø	10mØ	50 †Δ	b	30 Ø		2.5pØ	PE	TO18		AØ
49#	BF377	300m*	1.3G§Δ	2.9m	♦J	30	15 *	2.5	25m	10u	1.0Ø	25mØ	20 †Δ				1.3p	PE†Ø	u99		A
50#	BF378	300m*	1.3G§Δ	2.9m	♦J	30	15 *	2.5	25m	10u	1.0Ø	25mØ	20 †Δ				1.2p	PE†Ø	u99		C
51	K2501	300m	1.3G§	1.7m	§J	25	10	2.0		.10uØ	10Ø	8.0mØ	20 Δ				2pØ		TO18		A
52	K2524	300mØ	1.3G§	1.7m	§J	20	10	2.0		.30uØ	1.0Ø	3.0mØ	20 †Δ				1.5pØ		TO72		G
53	K2101A	300m	1.4G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
54	K2102A	300m	1.4G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
55	K2103A	300m	1.4G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
56	K2104A	300m	1.4G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
57	K2105A	300m	1.4G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
58	K2106A	300m	1.4G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
59	K2107A	300m	1.4G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
60	K2108A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO50		C
61	K2601A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
62	K2602A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
63	K2603A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
64	K2604A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
65	K2610A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
66	K2611A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
67	K2612A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
68	K2613A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
69	K2614A	300m	1.4G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
70	K2525	300mØ	1.5G§	1.7m	§J	20	10	2.0		.30uØ	1.0Ø	3.0mØ	20 †Δ				1.5pØ		TO72		G
71	K2101B	300m	1.7G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
72	K2102B	300m	1.7G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
73	K2103B	300m	1.7G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
74	K2104B	300m	1.7G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
75	K2105B	300m	1.7G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
76	K2106B	300m	1.7G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
77	K2107B	300m	1.7G§	1.7m	§J	30	10	2.5		10nØ	1.0Ø	3.0mØ	30 Δ				1.0pØ	Ø	TO50		C
78	K2108B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.0pØ	Ø	TO50		C
79	K2526	300mØ	1.7G§	1.7m	§J	20	10	2.0		.30uØ	1.0Ø	3.0mØ	20 †Δ				1.5pØ		TO72		G
80	K2601B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
81	K2602B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
82	K2603B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
83	K2604B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				1.5pØ		TO50		C
84	K2610B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
85	K2611B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
86	K2612B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
87	K2613B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
88	K2614B	300m	1.7G§	1.7m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 Δ				2.0pØ		TO18		AØ
89#	2SC1248	300m	2.1Gt Δ	2.3m	♦J	20	13	3.0	30m	100nØ	10Ø	7.0mØ	100 †				1.5pØ	E	u87		V
90#	2SC1090	300m	3.0G§	2.4m	§J	20	12	3.0	50m	500nØ	1.0Ø	30mØ	80 †				900f$	E	u78		S
91#	2SC1458	300m	3.0G§	2.4m	§J	20	12	3.0	50m	100nØ	5.0Ø	30mØ	100 †				900f$	E	u78		S
92	2N5762	300m	3.3G§Δ	2.4m	$S	20	15	3.0	40m	500nØ	10Ø	15mØ	30 †Δ				800f$Ø	Ø	X80a		S
93#	2SC985A	300m	3.7G§	2.4m	§J	20	15	3.0	40m	100nØ	10Ø	15mØ	80 †				600f$	E	X80a		Y
94▼	HP35866E	300m	6.0G§	5.0mØ	§J	20	15	1.5	20m	1.0uØ									u137a		R
95▼	HP35866EOpt100	300m	6.0G§	5.0mØ	§J	20	15	1.5	20m	1.0uØ									u137a		R
96▼	HP35822E	300mØ	9.0GØ	2.5mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 Ø				330f$		u77f		V
97▼	HP35861E	300mØ	13GØ	12mØ	§J	20	15	1.5	20m	100nØ	10Ø	150uΔ	80						u110		S
98▼	HP35861EOpt100	300mØ	13GØ	12mØ	§J	20	15	1.5	20m	100nØ	10Ø	150uΔ	80					Ø	u110		S
99▼	HP35862E	300mØ	14GØ	2.5mØ	§J	20	15	1.5	20m	100nØ	10Ø	150uΔ	80						u77f		U
100▼	HP35862EOpt100	300mØ	14GØ	2.5mØ	§J	20	15	1.5	20m	100nØ	10Ø	150uΔ	80					Ø	u77f		U
101	MPS2711	310m		2.9m	†J	18		5.0					30 †Δ				4pØ	AN	TO92		
102	MPS2712	310m		2.9m	†J	18		5.0					75 †Δ				4pØ	AN	TO92		
103	MPS2715	310m		2.9m	†J	18		5.0					30 †Δ				3.5pØ	AN	TO92		
104	MPS2716	310m		2.9m	†J	18		5.0					75 †Δ				3.5pØ	AN	TO92		
105	MPS3392	310m		2.9m	†J	25		5.0					300 †Ø				3.5pØ	AN	TO92		
106	MPS3393	310m		2.9m	†J	25		5.0					180 †Ø				3.5pØ	AN	TO92		
107	MPS3394	310m		2.9m	†J	25		5.0					170 †Ø				3.5pØ	AN	TO92		

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A X	M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	COMMON EMITTER hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	MPS3395	310m		2.9m	†J		25		5.0					150 †△				3.5pØ	AN	TO92		
2	MPS3396	310m		2.9m	†J		25		5.0					90 †△				3.5pØ	AN	TO92		
3	MPS3397	310m		2.9m	†J		25		5.0					500 †Ø				3.5pØ	AN	TO92		
4	MPS3398	310m		2.9m	†J		25		5.0					800 †Ø				3.5pØ	AN	TO92		
5	MPS3707	310m		2.9m	†J		30		6.0					400 †Ø					ANØ	TO92		
6	MPS3708	310m		2.9m	†J		30		6.0					660 †Ø					ANØ	TO92		
7	MPS3709	310m		2.9m	†J		30		6.0					165 †Ø					ANØ	TO92		
8	MPS3710	310m		2.9m	†J		30		6.0					330 †Ø					ANØ	TO92		
9	MPS3711	310m		2.9m	†J		30		6.0					180 †△					ANØ	TO92		
10	MPS6511	310m		2.8m	†J		30	20	3.0	100m	.05uØ	10Ø	10mØ	25 †△				2.5pØ	EA	TO92		A
11	MPS6541	310m		2.9m	†J		30		4.0									1.7p	AN	TO92		
12	MPS6544	310m		2.9m	†J		60		4.0										AN	TO92		
13	MPS6545	310m		2.9m	†J		60		4.0										AN	TO92		
14	MPS6564	310m		2.8m	†J			45	5.0	50m	500nØ	5.0Ø	10mØ	25 †△#				4.0p	PE	TO92		A
15	MPS6567	310m		2.9m	†J		40		5.0					25 †△				.7pØ	AN	TO92		
16	HEP54-RT	310m♦	30M§		†J		30	20 $	5.0	200m$	200n$	20		350 †						TO92		A
17	HEP731-RT	310m♦	30M§		†J		20	20 $	4.0	25m$	500n$	5.0		130 †						TO92		A
18	MPS6590	310m	60M§△	2.8m	$J		100	80	4.0	250m	100nØ	10Ø	10mØ	40 †△	75u	1.4k	800m	12p$Ø	ANØ	X131		A
19	MPS6591	310m	60M§△	2.8m	$J		60	50	4.0	250m	100nØ	10Ø	10mØ	40 †△	75u	1.4k	800m	12p$Ø	ANØ	X131		A
20	MPSL01	310m	60M§△	2.8m	†J		140	120	5.0	600m	1.0uØ	10Ø	1.0mØ	30 △				8.0pØ	AN	TO92		A
21	MPSA09	310m	80M§	2.8m	†J		50	50		50m	100nØ	5.0Ø	100uØ	100 △†				5.0pØ	ANØ	TO92		A
22	HEP733-RT	310m♦	100M§		†J		30	20 $	4.0	100m$	500n$	5.0		95 †						TO92		A
23	HEP737-RT	310m♦	100M§		†J		30	25 $	6.0	100m$	100u$	5.0		600 †						TO92		A
24	HEP738-RT	310m♦	100M§		†J		45	40 $	7.0	100m$	50n$	10		250 †						TO92		A
25	MPS3704	310m	100M§△	2.8m	†J		50	30	5.0	600m	.10uØ	2.0Ø	50mØ	100 †△#				12pØ	AN	TO92		A
26	MPS3705	310m	100M§△	2.8m	†J		50	30	5.0	600m	.10uØ	2.0Ø	50mØ	50 †△#				12pØ	AN	TO92		A
27	MPS3706	310m	100M§△	2.8m	†J		40	20	5.0	600m	.10uØ	2.0Ø	50mØ	30 †△#				12pØ	AN	TO92		A
28	MPSA18	310m	100M§△	2.8m	†J		45	45	6.5	50m	50nØ	5.0Ø	10uØ	400 †△				3.0p$Ø	ANØ	TO92		A
29	HEP735-RT	310m♦	150M§		†J		45	40 $	6.0	600m$	100n$	20		300 †						TO92		A
30	HEP736-RT	310m♦	150M§		†J		55	50 $	6.0	600m$	100n$	20		140 †						TO92		A
31	HEP730-RT	310m♦	175M§		†J		30	25 $	4.5	50m$	100n$	15		600 †						TO92		A
32	MPS6571	310m	175M§	2.8m	†J		20	20	3.0	50m	50n	5.0Ø	100uØ	250 †△				4.5pØ	ANt	X20d		A
33#	BCX19	310m	200M§	2.5m	$J		50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †△				5.0p$	PEt	u56		A
34▼#	BCX19R	310m	200M§	2.5m	$J			45	5.0	500m	100n	1.0Ø	100mØ	100 †△				5.0p$	PEt	u56		C
35#	BCX20	310m	200M§	2.5m	$J		30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †△				5.0p$	PEt	u56		A
36▼#	BCX20R	310m	200M§	2.5m	$J			25	5.0	500m	100n	1.0Ø	100mØ	100 †△				5.0p$	PEt	u56		C
37	HEP55-RT	310m♦	200M§		†J		30	25 $	5.0	200m$	100n$	20		350 †						TO92		A
38	HEP722-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		60 †						TO92		A
39	HEP723-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		90 †						TO92		A
40	HEP724-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		160 †						TO92		A
41	HEP725-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		250 †						TO92		A
42	HEP726-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		350 †						TO92		A
43	HEP727-RT	310m♦	200M§		†J		25	20 $	4.0	100m$	500n$	5.0		50 †						TO92		A
44	HEP728-RT	310m♦	200M§		†J		45	45 $	4.0	100m$	50n$	20		180 †						TO92		A
45	HEP729-RT	310m♦	200M§		†J		45	45 $	4.0	100m$	500n$	30		100 †						TO92		A
46	HEP732-RT	310m♦	200M§		†J		20	20 $	4.0	25m$	500n$	5.0		45 †						TO92		A
47	HEP734-RT	310m♦	200M§		†J		40	20 $	4.0	25m$	500n$	5.0		75 †						TO92		A
48	HEPS0005-RT	310m♦	200M§		†J		180	160 $	6.0	600m$	50n$Ø			180 †						TO92		A
49	HEPS0007-RT	310m♦	200M§		†J		70	70 $	4.0	50m$	100n$Ø			125 †						TO92		A
50	MPS706†	310m	200M§△	2.8m	†J		25	15 *	3.0		500nØ	1.0Ø	10mØ	20 †#△				6.0pØ	ANt	X20d		A
51	MPS706A†	310m	200M§△	2.8m	†J		25	15 *	5.0		500nØ	1.0Ø	10mØ	20 †#△				6.0pØ	ANt	X20d		A
52	MPS3693	310m	200M§△	2.8m	†J		45	45	4.0		50nØ	10Ø	10mØ	40 †△				3.5pØ	Ø	TO92		
53	MPS3694	310m	200M§△	2.8m	†J		45	45	4.0		.05uØ	10Ø	10mØ	100 †△				3.5pØ	EA	TO92		A
54	MPS3826	310m	200M§△	2.8m	†J		60	45	4	50m	100nØ	10Ø	10mØ	40 †△#				3.5p	PE	TO92		A
55	MPS3827	310m	200M§△	2.8m	†J		60	45	4.0	30m	.10uØ	10Ø	10mØ	100 †△#				3.5pØ		TO92		A
56	MPS6565	310m	200M§△	2.9m	†J		60		4.0					40 †△				3.5pØ	ANØ	TO92		
57	MPS6566	310m	200M§△	2.9m	†J		60		4.0					100 †△				3.5pØ	ANØ	TO92		
58	MPS6573	310m	200M§Ø	2.7m	$J		35	35	4.0	100m	100nØ	5.0Ø	100uØ	100 †△				12pØ	AØ	X131		A
59	MPS6574	310m	200M§Ø	2.7m	$J		35	35	4.0	100m	100nØ	5.0Ø	1.0mØ	100 †*				12pØ	AØ	X131		A
60	MPS6575	310m	200M§Ø	2.7m	$J		45	45	4.0	100m	100nØ	5.0Ø	100uØ	100 †△				12pØ	AØ	X131		A
61	MPS6576	310m	200M§Ø	2.7m	$J		45	45	4.0	100m	100nØ	5.0Ø	1.0mØ	100 †*				12pØ	AØ	X131		A
62#	2SC1204	310m	230M§		♦J		30	30	5.0	100m	500nØ	12Ø	2.0mØ	280 †	11m	16k	70m	1.8p	PEt			
63#	2SC1205	310m	230M§		♦J		30	30	5.0	100m	500nØ	12Ø	2.0mØ	35 △†				1.8p	PEt			
64	A5T4123†	310m	250M§△	2.8m	†S		40	30	5.0	200m	50nØ	10Ø	2.0mØ	50 △				4.0pØ	PEØ	X55		A
65	EN3903†	310m	250M§△	2.8m	†J		60	40	5.5	200m	50n#	10Ø	1.0mØ	50 △	40uØ	8.0kØ	5.0 Ø	4.0pØ	DPEØ	TO106		A
66	GET3903	310m	250M§△	2.8m	†J		60	40	6.0	200m	50n#	10Ø	10mØ	50 △	40uØ	8.0k	5.0 Ø	4.0p$Ø	Ø	X55a		B
67	MPS2713†	310m	250M§	2.8m	†J		18	18	5.0	200m	.50u	4.5Ø	2.0mØ	120 Ø		3.0k		2.5p	EA	TO92		A
68	MPS2714†	310m	250M§	2.8m	†J		18	18	5.0	200m	.50u	4.5Ø	2.0mØ	300 Ø		3.0k		2.5p	EA	TO92		A
69	MPS3642	310m	250M§△	2.8m	†J		60	45	5.0	500m	50n$	10Ø	150mØ	40 †△#				8.0p	PE	TO92		A
70	HEP721-RT	310m♦	260M§		†J		30	30 $	5.0	500m$	100n$	20		350 †						TO92		A
71	BC317	310m	280M§	2.8m	†J		50	45	6.0	150m	30n	5.0Ø	2.0 Ø	110 †△#				4.0p	PEØ	TO92		A
72	BC317A	310m	280M§	2.8m	†J		50	45	6.0	150m	30n	5.0Ø	2.0 Ø	220 †Ø#				4.0p	PEØ	TO92		A
73	BC317B	310m	280M§	2.8m	#J		50	45	6.0	150m	30n	5.0Ø	2.0 Ø	200 †△#				4.0p	PEØ	TO92		A
74	BC318	310m	280M§	2.8m	#J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	110 †△#				4.0p	PEØ	TO92		A
75	BC318A	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	220 †Ø#				4.0p	PEØ	TO92		A
76	BC318B	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	200 †△#				4.0p	PEØ	TO92		A
77	BC318C	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	420 †△#				4.0p	PEØ	TO92		A
78	BC319	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0mØ	200 †△#				4.0p	PEØ	TO92		A
79	BC319B	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0mØ	450 †Ø#				4.0p	PEØ	TO92		A
80	BC319C	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0mØ	420 †△#				4.0p	PEØ	TO92		A
81	2N4264†	310m	300M§△	2.8m	†S		30	15	6.0	200m	.1u#Ø	1.0Ø	10mØ	40 †△				4.0pØ		TO92		A
82	2N4265†	310m	300M§△	2.8m	†S		30	12	6.0	200m	.1u#Ø	1.0Ø	10mØ	100 †△				4pØ		TO92		A
83	A5T4124†	310m	300M§△	2.8m	†S		30	25	5.0	200m	50nØ	10Ø	2.0mØ	120 △				4.0pØ	PEØ	X55		A
84	EN3904†	310m	300M§△	2.8m	†J		60	40	5.5	200m	50n#	10Ø	1.0mØ	100 △	40uØ	10kØ	8.0 Ø	4.0pØ	DPEØ	TO106		A
85	GET3904	310m	300M§△	2.8m	†J		60	40	6.0	200m	50n#	10Ø	10mØ	100 △	40uØ	10k	8.0 Ø	4.0p$Ø	Ø	X55a		B
86	MPS2926	310m	300M§	2.9m	†J		18		5.0					470 †Ø				3.5pØ	AN	TO92		
87	MPS3721	310m	300M§	2.8m	†J		18	18	5.0	100m	500n	10Ø	2.0mØ	60 †△				3.5pØ		TO92		A
88	MPS6569	310m	300M§△	2.9m	†J		20		3.0									.5p†	AN	TO92		
89	MPS6570	310m	300M§△	2.9m	†J		20		3.0									.5p†	AN	TO92		
90	MPSH19	310m	300M§△	2.8	†J		30	25	3.0		100nØ	10Ø	4.0mØ	45 †△				650f$Ø	E	TO92		C
91	MPSH30	310m	300M§△	2.8m	†J		20	20	3.0		50nØ	5.0Ø	4.0mØ	20 †△				650f$Ø	ANØ	TO92		C
92	MPSH31	310m	300M§△	2.8m	†J		20	20	3.0		50nØ	5.0Ø	4.0mØ	20 †△				650f$Ø	ANØ	TO92		C
93	MPSH37	310m	300M§△	2.8m	†J			40	5.0		500n	10Ø	5.0mØ	25 †△				700ft Ø	AN	TO92		C
94	MPS834†	310m	350M§△	2.8m	†J		40	30 Ø	5.0	200m	.50uØ	1.0Ø	10mØ	25 †△#				4pØ	AN	TO92		A
95	MPS6540	310m	350M§△	2.8m	†J		30	30	4.0		.10uØ	10Ø	2.0mØ	25 †△				.65p$	EA	TO92		A
96	MPS6568	310m	375M§△	2.8m	†J		20	20	3.0		50nØ	5.0Ø	4.0mØ	20 †△				500f$Ø	ANØ	TO92		A
97	MPS6568A	310m	375M§△	2.8m	†J		20	20	3.0		50nØ	5.0Ø	4.0mØ	20 †△				650f$Ø	ANØ	TO92		A
98	MPS6520	310m	390M§	2.8m	†J		40	25	4.0	100m	.05uØ	10Ø	2.0mØ	200 †△				3.5pØ	EAØ	TO92		A
99	MPS6521	310m	390M§	2.8m	†J		40	25	4.0	100m	.05uØ	10Ø	2.0mØ	300 †△				3.5pØ	EAØ	TO92		A
100	MPS6530	310m	390M§	2.8m	†J		60	40	5.0	600m	.05uØ	1.0Ø	100mØ	85 †				3.5p	EA	TO92		A
101	MPS6531	310m	390M§	2.8m	†J		60	40	5.0	600m	.05uØ	1.0Ø	100mØ	150 †				3.5p	EA	TO92		A
102	MPS6532	310m	390M§	2.8m	†J		50	30	5.0	600m	.10uØ	1.0Ø	100mØ	30 †△				3.5p	EA	TO92		A
103	HEPS0004-RT	310m♦	400M§		†J		50	30 $	5.0	600m$	100n$Ø			75 †						TO92		A
104♦	MPSH32	310m	440M§	2.8m	†J		40	30	4.0		50nØ	5.0Ø	4.0mØ	35 †				200f$	ANØ	TO92		C
105	MPS2369†	310m	500M§△	2.8m	†J		40	15 *	4.5	500m	.40uØ	1.0Ø	10mØ	40 †#△				4pØ	AN	TO92		A
106	MPS6539	310m	500M§△	2.8m	†J		20	20	3.0		50nØ	10Ø	4.0mØ	20 †△				700f$Ø	Et	TO92		C
107	HEP718-RT	310m♦	600M§		†J		30	20 $	4.0	100m$	40n$	15		80 †						TO92		A
108	MPM5006	310m	600M§	2.8m	†J		40	40	4.0	100m	50nØ	10Ø	4.0mØ	30 †△				1.1p Ø		TO92		A
109	MPS918	310m	600M§△	2.8m	†J		30	15	3.0		10nØ	10Ø	8.0mØ	20 △				1.7pØ	ANØ	TO92		A
110	MPS3563	310m	600M§△	2.8m	†J		30	12	2.0		50nØ	10Ø	8.0mØ	20 †△#				1.7pØ	ANØ	TO92		A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C E O A D E
1	MPS6546	310m	600M§△	2.9m	†J	35		3.0									.35pt	AN	TO92	
2	MPS6547	310m	600M§△	2.9m	†J	35		3.0									.45pt	AN	TO92	
3	MPS6548	310m	650M§△	2.8m	†J	30	25	3.0		100nØ	10Ø	4.0mØ	25 †△				700f$Ø	Et	TO92	C
4	HEP719-RT	310m♦	700M§		†J	30	30 $	4.0	100m$	500n$	15		130 †						TO92	A
5	MPS6507	310m	700M§△	2.8m	†J	30	20	3.0	100m	.05uØ	10Ø	2.0mØ	25 †△				2.5pØ	EA	TO92	A
6	MPS6542	310m	700M§△	2.9m	†J	30		3.0									1.5p	AN	TO92	
7	HEP56-RT	310m♦	750M§		†J	30	20 $	2.5	100m$	200n$	20		70 †						TO92	A
8	MPS6543	310m	750M§△	2.9m	†J	35		3.0									1.0p	AN	TO92	
9	HEP720-RT	310m♦	800M§		†J	30	20 $	3.0	100m$	100n$	30		40 †						TO92	A
10#	2SC631A	320m	140M§		♦J	25	25	6.0	200m	200nØ	3.0Ø	1.0mØ	129 †△				7.0pØ	ME	u37	
11#	2SC632A	320m	140M§		♦J	50	50	6.0	200m	200nØ	3.0Ø	1.0mØ	129 †△				7.0pØ	ME	u37	
12#	2SC633A	320m	140M§		♦J	25	25	6.0	200m	200nØ	3.0Ø	1.0mØ	65 †△				7.0pØ	ME	u37	
13#	2SC634A	320m	140M§		♦J	50	50	6.0	200m	200nØ	3.0Ø	1.0mØ	65 †△				7.0pØ	ME	u37	
14	2N5027†	320m	250M§△	3.4m	♦J		30	5.0	350m	250n§	10Ø	1.0mØ	20 †△				8.0p$Ø		TO98	B
15	2N5028†	320m	250M§△	3.4m	♦J		30	5.0	350m	250n§	10Ø	1.0mØ	35 †△				8.0p$Ø		TO98	B
16	2N3605A†	320m	300M§△	3.4m	♦J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 †△				6.0p$Ø		TO98	B
17	2N3606A†	320m	300M§△	3.4m	♦J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 †△				6.0p$Ø		TO98	B
18#	BSY19	320m*	300M§△	21m	§J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 △†				6.0p$Ø	PE△	TO18	AØ
19	2N5030†	320m	400M§△	3.4m	♦J		12	4.0	200m	250n§	1.0Ø	10mØ	30 †△#				4.0p$Ø		TO98	B
20	2N5029†	320m	500M§△	3.4m	♦J		15	4.5	200m	250n§	1.0Ø	10mØ	40 †△#				4.0p$Ø		TO98	B
21▼#	BFS55A	325m*	4.5	1.4m	§J		15	3.0	50m	50n	8.0Ø	25mØ	30 †△				850f$	PEØ	TO72	J
22	2N5232	330m		3.3m	$S	70	50	5.0	100m	30nØ	5.0Ø	2.0mØ	250 △				4.0p$Ø		TO98	B
23	2N5232A	330m		3.3m	$S	70	50	5.0	100m	30nØ	5.0Ø	2.0mØ	250 △				4.0p$Ø	Ø	TO98	B
24	2N5233	330m		3.3m	$S	80	60	6.0	100m	30nØ	10Ø	10mØ	100 △				4.0p$Ø		TO98	B
25	2N5234	330m		3.3m	$S	80	60	6.0	100m	30nØ	10Ø	10mØ	250 △				4.0p$Ø		TO98	B
26	2N5235	330m		3.3m	$S	80	60	6.0	100m	30nØ	10Ø	10mØ	400 △				4.0p$Ø		TO98	B
27	2N5249	330m		3.3m	$S	70	50	5.0	100m	30nØ	5.0Ø	2.0mØ	400 △				4.0p$Ø		TO98	B
28	2N5249A	330m		3.3m	$S	70	50	5.0	100m	30nØ	5.0Ø	2.0mØ	400 △				4.0p$Ø	Ø	TO98	B
29	2N5309	330m		3.3m	$S	70	50	5.0	100m	10nØ	5.0Ø	10uØ	66 △				4.0p$Ø		TO98	B
30	2N5310	330m		3.3m	$S	70	50	5.0	100m	10nØ	5.0Ø	10uØ	110 △				4.0p$Ø		TO98	B
31	2N5311	330m		3.3m	$S	70	50	5.0	100m	10nØ	5.0Ø	10uØ	250 △				4.0p$Ø		TO98	B
32#	BCY58IX†	330m*	280M§	2.2m	§J		32	7.0	200m	10n§	5.0Ø	2.0mØ	330	30u	4.5k	3.0	3.0p$	PEØ	TO18	AØ
33#	BCY58VIII†	330m*	280M§	2.2m	§J		32	7.0	200m	10n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	3.0p$	PEØ	TO18	AØ
34#	BCY58VIIII†	330m*	280M§	2.2m	§J		32	7.0	200m	10n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	3.0p$	PEØ	TO18	AØ
35#	BCY58X†	330m*	280M§	2.2m	§J		32	7.0	200m	10n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	3.0p$	PEØ	TO18	AØ
36#	BCY59IX†	330m*	280M§	2.2m	§J		45	7.0	200m	10n§	5.0Ø	2.0mØ	330	30u	4.5k	3.0	3.0p$	PEØ	TO18	AØ
37#	BCY59VIII†	330m*	280M§	2.2m	§J		45	7.0	200m	10n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	3.0p$	PEØ	TO18	AØ
38#	BCY59VIIII†	330m*	280M§	2.2m	§J		45	7.0	200m	10n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	3.0p$	PEØ	TO18	AØ
39#	BCY59X†	330m*	280M§	2.2m	§J		45	7.0	200m	10n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	3.0p$	PEØ	TO18	AØ
40#	BF127	330m	350M§	3.3m	♦J		30	4.0	25m		10Ø	4.0mØ	30 †△				220f†	PL†	X65a	A
41#	2C415*	340m	100M§	2.3m	§J	45		6.0	30m	.01uØ	5.0Ø	.10mØ	250 †				6pØ	DPLØ	L2b	
42	2N5456†	340m	450M§△	1.9m	§J	25	25	4.5	300m	50n§	1.0Ø	100m	30 †△#				6p$Ø		TO52	AØ
43#	BCY65	345m	125M§		§J		60	7.0	100m	200p§	5.0Ø	2.0mØ	260 *		3.6	2.0	3.5p$	PE△	TO18	
44#	BCY65IX†	345m*	250M§	2.2m	§J		60	7.0	100m	200p§	5.0Ø	2.0mØ	330	30u	4.5k	3.0	6.0p$Ø	PEØ	TO18	AØ
45#	BCY65VIII†	345m*	250M§	2.2m	§J		60	7.0	100m	200p§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	6.0p$Ø	PEØ	TO18	AØ
46#	BCY65VIIII†	345m*	250M§	2.2m	§J		60	7.0	100m	200p§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	6.0p$Ø	PEØ	TO18	AØ
47#	BCY58	345m*	280M§Ø	2.2m	§J	32	32	7.0	200m	10n§							3.0p$	PEØ	TO18	AØ
48#	BCY59	345m*	280M§Ø	2.2m	§J	45	45	7.0	200m	10n§							3.0p$	PEØ	TO18	AØ
49	2N2310	350m		2.3m	§J	60	60	8.0	500m	25n	10Ø	200mØ	12 †△						TO46	AØ
50	2N2311	350m		2.3m	§J	100	100	8.0	500m	25n	10Ø	200mØ	12 †△						TO46	AØ
51	2N2312	350m		2.3m	§J	60	60	8.0	500m	25n	10Ø	200mØ	30 †△						TO46	AØ
52	2N2313	350m		2.3m	§J	100	100	8.0	500m	25n	10Ø	200mØ	30 †△						TO46	AØ
53♦	2N5088	350m		2.8m	§J	35	30	3.0	50m	.05uØ	5.0Ø	1.0mØ	350 △				4p$Ø	Ø	TO92	A
54♦	2N5089	350m		2.8m	§J	30	25	3.0	50m	.05uØ	5.0Ø	1.0mØ	450 △				4p$Ø	Ø	TO92	A
55#	2SC727	350m	20.M§	2.3m	§J	100	100	3.0	100m	1.0uØ	4.0Ø	10mØ	90 †*	12u	1.2k	1.0	9.0p	D	TO18	
56#	2SC728†	350m	20.M§	2.3m	§J	200	200	6.0	100m	1.0uØ	4.0Ø	10mØ	90 †*				9.0p	D	TO18	
57	2N5209	350m	30M§△	2.8m	$S	50	50	4.5	50m	50nØ	5.0Ø	1.0mØ	150 △				4.0p$Ø	Ø	TO92	A
58	2N5210	350m	30M§△	2.8m	$S	50	50	4.5	50m	50nØ	5.0Ø	1.0mØ	250 △				4.0p$Ø	Ø	TO92	A
59#	BFS36	350m	30M§△	2.3m	§J	45	45 Ø	5.0	500m#	10n	5.0Ø	10uØ	100 †△				8.0pØ	Ø	u53	F
60#	BFS36A	350m	30M§△	2.3m	§J	30	30 Ø	5.0	500m#	100n	5.0Ø	100uØ	100 †△				8.0pØ	Ø	u53	F
61	2N2314	350m	40M§△	2.3m	§J	60	40 §	5.0	500m	25nØ	5.0	1.0m	15 △	500nØb	30 Ø	5.0 Ø	35pØ		TO46	AØ
62	MPSD02	350m	40M§△	2.8m	§J	140	140	4.0	50m	100nØ	10Ø	10mØ	25 †△					AN†	TO92	A
63	MPSD03	350m	40M§△	2.8m	§J	100	100	4.0	50m	100nØ	10Ø	10mØ	25 †△					AN†	TO92	A
64	2N2315	350m	50M§△	2.3m	§J	60	40 §	5.0	500m	25nØ	5.0	1.0m	25 △	500nØb	30 Ø	5.0 Ø	35pØ		TO46	AØ
65	2N2316	350m	50M§△	2.3m	§J	120	80 §	5.0	500m	25nØ	5.0	1.0m	30 △	500nØb	30 Ø	2.5 Ø	20pØ		TO46	AØ
66	2N2353	350m	50M§△	2.0m	§J	45	25	5.0	1.0	100nØ	10Ø	150mØ	20 †#△				20pØ	△	TO46	AØ
67	2N2353A	350m	50M§△	2.0m	§J	45	25	5.0	1.0	100nØ	10Ø	150mØ	20 †#△				20pØ	△	TO46	AØ
68	2N5225	350m	50M§△	2.8m	$S	25	25	4.0	500m	300nØ	10Ø	50mØ	30 △				20p$Ø		TO92	A
69	2N2317	350m	60M§△	2.3m	§J	75	50 §	7.0	500m	10nØ	5.0	1.0m	30 △	500nØb	34 Ø	3.0 Ø	25pØ		TO46	AØ
70	2N3246	350m	60M§△	2.0m	§A	60	45	10	50m	1.0nØ	6.0	1.0mØ	200 △	1.0uØb	32 Ø	6.0 Ø	5.0pØ	Ø	TO18	AØ
71	2N4956*	350m	60M§△	3.5m	♦J	30	25	5.0	30m	10nØ	5.0Ø	1.0mØ	150 △	40uØ	30kØ	8.0 Ø	6.0p$Ø	*Ø	L2s	
72#	BFS42	350m	60M§△	2.3m	§J	60	30 Ø	5.0	1.0 #	100nØ	10Ø	10mØ	25 △†				25pØ		u53	F
73#	BFS43	350m	60M§△	2.3m	§J	60	60 Ø	5.0	1.0 #	100nØ	10Ø	10mØ	35 △†				25pØ		u53	F
74	MPSA17	350m	80M§△	2.7m	§J		40	15	100m	100n	10Ø	5.0mØ	200 †△				4.0pØ	AN	TO92	A
75	2N5220	350m	100M§△	2.8m	$S	15	15	3.0	500m	100nØ	10Ø	50mØ	30 △				10p$Ø		TO92	A
76♦	2N5550	350m	100M§△	2.8m	§J	160	140	6.0	600m	100nØ	10Ø	1.0mØ	50 △				6.0pØ		TO92	A
77♦	2N5551	350m	100M§△	2.8m	§J	180	160	6.0	600m	50nØ	10Ø	1.0mØ	50 △				6.0pØ	Ø	TO92	A
78#	BCW65EA†	350m	100M§△		§J		32	5.0	800m		1.0Ø	100mØ	100 †△				12pØ	PE	u56	
79#	BCW65EB†	350m	100M§△		§J		32	5.0	800m		1.0Ø	100mØ	160 †△				12pØ	PE	u56	
80#	BCW65EC†	350m	100M§△		§J		32	5.0	800m		1.0Ø	100mØ	250 †△				12pØ	PE	u56	
81#	BCW66EF†	350m	100M§△		§J		45	5.0	800m		1.0Ø	100mØ	100 †△				12pØ	PE	u56	
82#	BCW66EG†	350m	100M§△		§J		45	5.0	800m		1.0Ø	100mØ	160 †△				12pØ	PE	u56	
83#	BCW66EH†	350m	100M§△		§J		45	5.0	800m		1.0Ø	100mØ	250 †△				12pØ	PE	u56	
84	MPS8001	350m	100M§△	2.8m	§J		25	3.0	100m	1.0u	1.0Ø	10mØ	40 †△					AN	X131	A
85	MPSA16	350m	100M§△	2.7m	§J		40	12	100m	100n	10Ø	5.0mØ	200 †△				4.0pØ	AN	TO92	A
86	MPSD05	350m	100M§△	2.8m	§J	25	25		500m	1.0uØ	5.0Ø	50mØ	50 †△#					ANT	TO92	A
87	MPSD06	350m	100M§△	2.8m	§J		25	4.0	50m	1.0 Ø	5.0Ø	1.0mØ	40 †△					ANT	TO92	A
88#	ZT20†	350m	110M§	2.7m	§J	20	20	6.0	50m	500n	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	5.0p		TO5	Ø
89#	ZT21†	350m	110M§	2.7m	§J	20	20	6.0	50m	500n	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	5.0p		TO5	Ø
90#	ZT22†	350m	110M§	2.7m	§J	45	45	6.0	50m	500n	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	5.0p		TO5	Ø
91#	ZT23†	350m	110M§	2.7m	§J	45	45	6.0	50m	500n	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	5.0p		TO5	Ø
92#	ZT24†	350m	110M§	2.7m	§J	45	45	6.0	50m	500n	6.0Ø	1.0 Ø	65	2.5u	2.0k	1.1	5.0p		TO5	Ø
93	MPS5172	350m	120M§	2.8m	§J	25	25	5.0	100m	100n	10Ø	10mØ	100 △				10p$Ø	ANT	TO92	A
94#	ZT60†	350m	120M§△	2.7m	§J	25	25	4.0	500m	500n	6.0Ø	1.0 Ø	55				8.0pØ	PEØ	TO5	Ø
95#	ZT61†	350m	120M§△	2.7m	§J	45	35	4.0	500m	500n	6.0Ø	1.0 Ø	55				8.0pØ	PEØ	TO5	Ø
96#	ZT62†	350m	120M§△	2.7m	§J	45	35	4.0	500m	500n	6.0Ø	1.0 Ø	90				8.0pØ	PEØ	TO5	Ø
97#	ZT63†	350m	120M§△	2.0m	§J	60	45	5.0	500m	50n	6.0Ø	1.0 Ø	55				8.0pØ	PEØ	TO5	Ø
98#	ZT64†	350m	120M§△	2.0m	§J	60	45	5.0	500m	50n	6.0Ø	1.0 Ø	90				8.0pØ	PEØ	TO5	Ø
99#	ZT66†	350m	120M§△	2.0m	§J	100	80	5.0	500m	50n	6.0Ø	1.0 Ø	55				8.0pØ	PEØ	TO5	Ø
100#	BFW57†	350m	130M§	3.5m	♦J	80	60	6.0	500m	500n	10Ø	10mØ	110	20u	400	1.0	7.0p$	PE†	MM10	A
101#	BFW58†	350m	130M§	3.5m	♦J	80	60	6.0	500m	500n	10Ø	10mØ	75	20u	400	1.0	7.0p$	PE†	MM10	A
102#	BFW59†	350m	130M§	3.5m	♦J	40	35	6.0	500m	500n	10Ø	10mØ	110	20u	400	1.0	7.0p$	PE†	MM10	A
103#	BFW60†	350m	130M§	3.5m	♦J	40	35	6.0	500m	500n	10Ø	10mØ	75	20u	400	1.0	7.0p$	PE†	MM10	A
104	2N3641	350m	150M§△	3.5m	♦J	60	30	5.0	500m	50n§	10Ø	150mØ	40 †△#				8.0pØ		R110a	A
105	2N3642	350m	150M§△	3.5m	♦J	60	45	5.0	500m	50n§	10Ø	150mØ	40 †△#				8.0pØ		R110a	A
106	2N5219	350m	150M§△	2.8m	$S	20	15	3.0	100m	100nØ	10Ø	2.0mØ	35 △				4.0p$Ø		TO92	A
107	2N5223	350m	150M§△	2.8m	$S	25	20	3.0	100m	100nØ	10Ø	2.0mØ	50 △				4.0p$Ø		TO92	A
108#	BFS38	350m	150M§△	2.3m	§J	45	35 Ø	5.0	500m#	50n	6.0Ø	100uØ	20 △†				5.0pØ		u53	F
109#	BFS38A	350m	150M§△	2.3m	§J	25	25 Ø	5.0	500m#	500n	6.0Ø	10mØ	50 △†				5.0pØ		u53	F
110#	BFS39	350m	150M§△	2.3m	§J	60	45 Ø	5.0	500m#	50n	6.0Ø	10mØ	40 △†				5.0pØ		u53	F

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	BFX50†	350m	150M§Δ	2.0m	§J	80	35	6.0	1.0	100nØ	10	150mØ	30 †Δ				12p	PE	TO18 AØ
2#	BFX52†	350m	150M§Δ	2.0m	§J	40	20	6.0	1.0	100nØ	10	150mØ	60 †Δ				12p	PE	TO18 AØ
3	MPS8098	350m	150M§Δ	2.8m	§J	60	60 #	6.0	200m	100n	5.0Ø	1.0 Ø	100 †Δ#				6.0pØ	AN	TO92 A
4	MPS8099	350m	150M§Δ	2.8m	§J	80	80 #	6.0	200m	100n	5.0Ø	1.0 Ø	100 †Δ#				6.0pØ	AN	TO92 A
5♦	2N4400†	350m	200M§Δ	2.8m	§J	60	40	6.0	600m	100n#	10Ø	1.0mØ	20 Δ	30uØ	7.5kØ	8.0 Ø	6.5p$Ø		TO92 A
6#	2SC282*	350m	200M			30	20	5.0	100m	1.0u	6.0	10mØ	60 †Δ				10p	PM	TO1
7#	2SC284	350m	200M			70	35	5.0	100m	1.0u	6.0	10mØ	35 †Δ				10p	PM	TO1
8▼	MPS8097	350m	200M§Δ	2.8m	§J	60	40 *	6.0	200m	10u	5.0Ø	100uØ	250 Δ				4.0pØ	ANØ	TO92 A
9	2N3643	350m	250M§Δ	3.5m	♦J	60	30	5.0	500m	50n§	10Ø	150mØ	100 †Δ#				8.0pØ		R97 A
10	2N3903†	350m	250M§Δ	2.8m	§J	60	40	6.0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.0pØ	Ø	TO92 A
11♦	2N4123	350m	250M§Δ	2.8m	§J	40	30	5.0	200m	.05uØ	10Ø	2.0mØ	50 Δ				4.0p$Ø	Ø	TO92 A
12♦	2N4401†	350m	250M§Δ	2.8m	§J	60	40	6.0	600m	100n#	10Ø	1.0mØ	40 Δ	30uØ	15kØ	8.0 Ø	6.5p$Ø		TO92 A
13	2N5224†	350m	250M§Δ	2.8m	§S	25	12	5.0	100m	500nØ	1.0Ø	10mØ	40 †Δ				4.0p$Ø		TO92 A
14#	BSW41†	350m	250M§Δ	2.0m	§J	40	25	5.0	300m	500nØ	10Ø	10mØ	30 †Δ				8.0p$Ø	PE	TO18 AØ
15	EN2219	350m	250M§Δ	3.6m	♦J	60	30 *Ø	5.0	800m	.05uØ	10Ø	.10mØ	35 †Δ				8pØ	PEΔ	TO105 A
16	MD2218AF*	350m	250M§	2.0m	§J	75	40	6.0	500m	15n#	10Ø	100nØ	50 †#				3.5p	ANΔ	L85
17	MD2218F*	350m	250M§	2.0m	§J	60	30	5.0	500m	20n#	10Ø	100nØ	50 †#				3.5p	ANΔ	L85
18	MD2219AF*	350m	250M§	2.0m	§J	75	40	6.0	500m	15n#	10Ø	100nØ	45 †#				3.5p	ANΔ	L85
19	MD2219F*	350m	250M§	2.0m	§J	60	30	5.0	500m	20n#	10Ø	100nØ	45 †#				3.5p	ANΔ	L85
20	MPS6512	350m	250M§	2.8m	§J	40	30	4.0	100m	50nØ	10Ø	2.0mØ	50 Δ				3.5pØ	ANØ	TO92 A
21	MPS6513	350m	250M§	2.8m	§J	40	30	4.0	100m	50nØ	10Ø	2.0mØ	90 Δ				3.5pØ	ANØ	TO92 A
22	2N3904†	350m	300M§Δ	2.8m	§J	60	40	6.0	200m	50n#	10Ø	1.0mØ	100 Δ	40uØ	10kØ	8.0 Ø	4.0pØ	Ø	TO92 A
23	2N4072	350m	300M§Δ	2.8m	§S	40	20	4.0	100m	.10uØ	2.0Ø	25mØ	10 †Δ				4pØ		TO18 AØ
24♦	2N4124	350m	300M§Δ	2.8m	§J	30	25	5.0	200m	.05uØ	10Ø	2.0mØ	120 Δ				4p$Ø	Ø	TO92 A
25	2N4955*	350m	300M§Ø	3.4m	♦J	30	25	5.0	30m	.01uØ	5.0Ø	1.0mØ	1.0kØ	40uØ	30kØ	8 Ø	6p$	Ø	L2s
26#	BC147	350m	300M§	3.5m	♦J	50	45	6.0	100m	600nØ	5.0Ø	2.0mØ	125 Δ				2.5p$	PE†	MM10 A
27#	BC147A	350m	300M§	3.5m	♦J	50	45	6.0	100m	600mØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE†	MM10 A
28#	BC147B	350m	300M§	3.5m	♦J	50	45	6.0	100m	600nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE†	MM10 A
29#	BC148	350m	300M§	3.5m	♦J	30	20	5.0	100m	600nØ	5.0Ø	2.0mØ	125 Δ				2.5p$	PE†	MM10 A
30#	BC148A	350m	300M§	3.5m	♦J	30	20	5.0	100m	600nØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE†	MM10 A
31#	BC148B	350m	300M§	3.5m	♦J	30	20	5.0	100m	600nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE†	MM10 A
32#	BC148C	350m	300M§	3.5m	♦J	30	20	5.0	100m	600nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE†	MM10 A
33#	BC149	350m	300M§	3.5m	♦J	30	20	5.0	100m	600nØ	5.0Ø	2.0mØ	240 Δ				2.5p$	PE†Ø	MM10 A
34#	BC149B	350m	300M§	3.5m	♦J	30	20	5.0	100m	600nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE†Ø	MM10 A
35#	BC149C	350m	300M§	3.5m	♦J	30	20	5.0	100m	600nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE†Ø	MM10 A
36#	BSV35A†	350m	300M§Δ	2.3m	§J	25	20 §	5.0	500m#	500nØ	1.0Ø	10mØ	20 Δ†				6.0pØ		u53 F
37♦	MD708AF*	350m	300M§Δ	2.0m	§J	40	15	5.0	200m	15nØ	1.0Ø	500uØ	40 †Δ#				5.0pØ	AN*	L17s
38♦	MD708BF*	350m	300M§Δ	2.0m	§J	40	15	5.0	200m	15nØ	1.0Ø	500uØ	40 †Δ#				5.0pØ	AN*	L17s
39♦	MD708F*	350m	300M§Δ	2.0m	§J	40	15	5.0	200m	15nØ	1.0Ø	500uØ	40 †Δ#				5.0pØ	AN*	L17s
40▼	MD7003AF*	350m	300M§	2.0m	§J	50	40	5.0	50m	100nØ	10Ø	100uØ	350 †#				3.0p	ANØ	L17s
41▼	MD7003F	350m	300M§	2.0m	§J	50	40	5.0	50m	100nØ	10Ø	100uØ	350 †#				3.0p	ANØ	L17s
42#	2SC131†	350m	350M§	2.3m	§J	40	30 §	5.0	300m	.05u	1.0Ø	10mØ	60				4.0p	PE	TO18
43#	2SC132†	350m	350M§	2.3m	§J	20	20 §	5.0	300m	.05u	1.0Ø	10mØ	60				4.0p	PE	TO18
44#	2SC133†	350m	350M§	2.3m	§J	20	20 §	5.0	300m	.05u	1.0Ø	10mØ	60				4.0p	PE	TO18
45#	2SC134†	350m	350M§	2.3m	§J	40	30 §	5.0	300m	.02uØ	1.0Ø	10mØ	60				4.0p	PE	TO18
46#	2SC135†	350m	350M§	2.3m	§J	20	20 §	5.0	300m	.02uØ	1.0Ø	10mØ	60				4.0p	PE	TO18
47#	2SC136†	350m	350M§	2.3m	§J	80	60 §	5.0	300m	.02uØ	1.0Ø	10mØ	60				4.0p	PE	TO18
48#	2SC137†	350m	350M§	2.3m	§J	25	25 §	5.0	300m	.05uØ	1.0Ø	10mØ	50 †				4.0p	PEΔ	TO18
49#	2SC203	350m	350M§	2.3m	§J	40		5.0	200m	.02uØ	6.0Ø	1.0m	60				4.0p	PE	TO18
50#	2SC204	350m	350M§	2.3m	§J	20		3.0	200m	.10uØ	6.0Ø	1.0m	60				4.0p	PE	TO18
51#	2SC205	350m	350M§	2.3m	§J	80		5.0	200m	.02uØ	6.0Ø	1.0m	60				4.0p	PE	TO18
52#	2SC230	350m	350M§	2.3m	§J	80		3.0	200m	.02uØ	6.0Ø	1.0m	60				4.0p	PE	TO18
53	MPS6514	350m	390M§	2.8m	§J	40	25	4.0	100m	50nØ	10Ø	2.0mØ	150 Δ				3.5pØ	ANØ	TO92 A
54	MPS6515	350m	390M§	2.8m	§J	40	25	4.0	100m	50nØ	10Ø	2.0mØ	250 Δ				3.5pØ	ANØ	TO92 A
55	MPSH07	350m	400M§Δ	2.8m	§J	30	30	3.0		50nØ	10Ø	3.0mØ	20 †Δ					ANØ	TO92 A
56	MPSH08	350m	400M§Δ	2.8m	§J	30	30	3.0		50nØ	10Ø	3.0mØ	20 †Δ					ANØ	TO92 A
57	2N5222	350m	450M§Δ	2.8m	§S	20	15	2.0	50m	100nØ	10Ø	4.0mØ	20 Δ				1.3p$Ø		TO92 A
58#	2SC237	350m	450M§	2.3m	§J	25			300m	.05uØ	6.0Ø	1.0m	80				5.0p	PE	TO18
59#	2SC239	350m	450M§	2.3m	§J	35			300m	.05uØ	6.0Ø	1.0m	80				5.0p	PE	TO18
60#	BSV35†	350m	500M§Δ	2.3m	§J	40	15 Ø	5.0	500m#	400nØ	1.0Ø	10mØ	40 Δ†				4.0pØ		u53 F
61#	BFS46	350m	600M§Δ	2.3m	§J	30	15 Ø	3.0	500m#	10nØ	1.0Ø	3.0mØ	20 Δ†				1.7pØ	Ø	u53 F
62#	BFS46A	350m	600M§Δ	2.3m	§J	30	15 Ø	3.0	500m#	10nØ	1.0Ø	3.0mØ	20 Δ†				1.7pØ	Ø	u53 F
63#	BSV36†	350m	600M§Δ	2.3m	§J	15	6.0 Ø	4.0	500m#	50nØ	.40Ø	20mØ	30 Δ†				3.0pØ		u53 F
64	MD7007BF	350m	600M§	2.0m	§J	50	40	5.0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN*	L85
65	MD7007F	350m	600M§	2.0m	§J	50	40	5.0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN*	L85
66♦	MPS3646†	350m	600M§	2.8m	§J	40	15 *Ø	5.0	300m	500u§	.40Ø	30mØ	65 †#				2.5p	AN†	X131a A
67	MPSH10	350m	650M§Δ	2.8m	§J	30	25	3.0		100nØ	10Ø	4.0mØ	60 †Δ				700fØ	E†	TO92 C
68	MPSH11	350m	650M§Δ	2.8m	§J	30	25	3.0		100nØ	10Ø	4.0mØ	60 †Δ				700fØ	E†	TO92 C
69#	BFS85	350m	1.0G§Δ	2.3m	§J	25	12	2.5	50m#	1.0uØ	1.0Ø	2.0mØ	25 †Δ				800ft†Ø	PLØ	u76 F
70#	BFS88	350m	1.0G§Δ	2.3m	§J	30	15	2.5	50m#	10nØ	1.0Ø	2.0mØ	25 †Δ				800ft†Ø	PLØ	u76 F
71	K2503	350m	1.6G§	2.0m	§J	25	10	2.0		.10uØ	10Ø	8.0mØ	20 Δ				2pØ		TO50 C
72	K2509	350m	1.6G§	2.0m	§J	30	10	2.0		.10uØ	10Ø	8.0mØ	20 Δ				2pØ		TO50 C
73	2N5842	350mØ	1.7G§Δ	2.0mØ	§S	20	10	3.0	100m	20nØ	4.0Ø	25mØ	25 †Δ				1.5p$Ø		TO72 G
74	2N5841	350mØ	2.0G§Δ	2.0mØ	§S	20	10	3.0	100m	20nØ	4.0Ø	25mØ	25 †Δ				1.5p$Ø		TO72 G
75▼#	2SC1660	350m	6.0G§Δ	2.0m	§J	20	8.0	3.0	80m	100n	5.0	30m	100 †				600f$	E	u88 S
76	2N3414	360m		2.6m	§J	25	25	5.0	500m	100n	4.5Ø	2.0mØ	75 Δ						TO98 B
77	2N3415	360m		2.6m	§J	25	25	5.0	500m	100n	4.5Ø	2.0mØ	180 Δ						TO98 B
78	2N3416	360m		2.6m	§J	50	50	5.0	500m	100n	4.5Ø	2.0mØ	75 Δ						TO98 B
79	2N3417	360m		2.6m	§J	50	50	5.0	500m	100n	4.5Ø	2.0mØ	100 Δ						TO98 B
80	2N3707	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	.10mØ	100 Δ					†Ø	TO92 B
81	2N3708	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	45 Δ					†Ø	TO92 B
82	2N3709	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	45 Δ					†Ø	TO92 B
83	2N3710	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	90 Δ					†Ø	TO92 B
84	2N3711	360m		2.9m	§S	30	30	6.0	30m	.10uØ	5.0Ø	1.0mØ	180 Δ					†Ø	TO92 B
85	2N4269	360m		2.0m	§S	200	140	15	30m	1.0uØ	10Ø	10mØ	200 †Ø				5pØ		TO18 AØ
86	2N4424	360m		2.8m	§J	40	40	5.0	500m	100nØ	4.5	2.0mØ	180 Δ						TO98 B
87	2N5824	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	60 Δ				4.0p$Ø		X55a A
88	2N5825	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	100 Δ				4.0p$Ø		X55a A
89	2N5826	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	150 Δ				4.0p$Ø		X55a A
90	2N5827	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	250 Δ				4.0p$Ø		X55a A
91	2N5827A	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	250 Δ				4.0p$Ø	Ø	X55a A
92	2N5828	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	400 Δ				4.0p$Ø		X55a A
93	2N5828A	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	400 Δ				4.0p$Ø	Ø	X55a A
94▼	2N6222	360m		2.8m	§S	60	60	5.0	100m	50nØ	5.0Ø	2.0mØ	75 Δ				4.0p$Ø		X93b A
95▼	2N6224	360m		2.8m	§S	60	60	5.0	100m	50nØ	5.0Ø	2.0mØ	150 Δ				4.0p$Ø		X93b A
96	A5T3707	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 Δ					PEØ	X55 A
97	A5T3708	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	X55 A
98	A5T3709	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	X55 A
99	A5T3710	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	90 Δ					PEØ	X55 A
100	A5T3711	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	180 Δ					PEØ	X55 A
101#	BC223A	360m		2.9m	§S	50	30	5.0	400m	100nØ	2.0Ø	50mØ	100 †Δ#					PE†	X55c A
102#	BC223B	360m		2.9m	§S	50	30	5.0	400m	100nØ	2.0Ø	50mØ	200 †Δ#					PE†	X55c A
103#	BC280A	360m		2.0m	§J	45	40	6.0	100m	5.0nΔ	5.0Ø	1.0mØ	100 †Δ	9.5u	5.6k	2.1	2.8p	PL	TO18 A
104#	BC280B	360m		2.0m	§J	45	40	6.0	100m	5.0nΔ	5.0Ø	1.0mØ	200 †Δ	16u	9.0k	3.5	2.8p	PL	TO18 A
105#	BC280C	360m		2.0m	§J	45	40	6.0	100m	5.0nΔ	5.0Ø	1.0mØ	200 †Δ	16u	9.0k	3.5	2.8p	PL	TO18 A
106#	BF237	360m		2.9m	§S	45	30	4.0	30m	.10u	10Ø	1.0mØ	30 Δ					PL	X55
107	BF238	360m		2.9m	§S	45	30	4.0	30m	.10uØ	10Ø	1.0mØ	70 Δ					PE	X55
108	LDS207Ø	360m		2.9m	§J	20	10	5.0	30m	100n§	5.0Ø	1.0mØ	75 †Δ					PEΔ	TO122 P
109	TPS6512	360m		2.8m	§J	40	30	4.0	100m	50nØ	10Ø	2.0mØ	50 †Δ				3.5p$Ø	PL	X55a A
110	TPS6513	360m		2.8m	§J	40	30	4.0	100m	50nØ	10Ø	2.0mØ	90 †Δ				3.5p$Ø	PL	X55a A

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1	TPS6514	360m		2.8m	§J	40	25	4.0	100m	50nØ	10Ø	2.0mØ	150 †Δ				3.5p§Ø	PL	X55a	A
2	TPS6515	360m		2.8m	§J	40	25	4.0	100m	50nØ	10Ø	2.0mØ	250 †Δ				3.5p§Ø	PL	X55a	A
3#	BF597	360m	550	2.4m	§	40	25	4.0	25m		10	70m	37					PE	X20	
4	GET2483	360m	10M§Δ	3.6m	♦J	60	60	6.0	100m	50nØ	5.0Ø	1.0mØ	80 Δ				4.0p§Ø	PEØ	X93	A
5	2N2484A	360m	15M§Δ	2.0m	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	150 Δ	40uØ	24kØ	8.0 Ø	6pØ	Ø	TO18	AØ
6	MM2484	360m	15M§Δ	2.1m	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	150 Δ	50uØ	24kØ	25 Ø	6pØ	EAØ	TO18	A
7	2N2509	360m	45M§Δ		§C	125	80	7.0	200m	5.0nØ	5.0Ø	10uØ	25 †Δ				6.0pØ	Ø	TO18	AØ
8	2N2510	360m	45M§Δ		§C	100	65	7.0	200m	5.0nØ	5.0Ø	10uØ	75 †Δ				6.0pØ	Ø	TO18	AØ
9	2N2511	360m	45M§Δ		§C	80	50	7.0	200m	5.0nØ	5.0Ø	1.0uØ	80 †Δ				6.0pØ	Ø	TO18	AØ
10	2N3037†	360m	50M§Δ	2.4m	§S	120	70	7.0	500m	.01uØ	10Ø	10mØ	30 Δ	100uØ	700 Ø		15pØ		TO50	A
11	2N3038†	360m	50M§Δ	2.4m	§S	100	60	7.0	500m	.01uØ	10Ø	10mØ	60 Δ	200uØ	1.5kØ		15pØ		TO50	A
12#	BFT54†	360m	50M§Δ	2.0m	§J	60	30	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0pØ	PE	TO18	A
13#	BFT55†	360m	50M§Δ	2.0m	§J	40	20	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0pØ	PE	TO18	A
14#	BSX25	360m	50M§Δ	2.1m	§J	40	25 *	5.0	300m	100u	10Ø	5.0mØ	30 †Δ				25pØ	PL	TO18	AØ
15#	BSY93	360m	50M§Δ	2.1m	§J	60	40 *	5.0		100u	2.0Ø	10mØ	60 †Δ				25pØ	PLΔ	TO18	AØ
16	TZ81	360m	50M§	2.8m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PLØ	TO98	B
17	TZ82	360m	50M§	2.8m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	250	90nb	26		5.0p	PLØ	TO98	B
18#	BFY76	360m	55M§	2.0m	§J	45	45	6.0	50m	20nØ	5.0Ø	1.0mØ	300	11u	8.0k	3.0	3.5p	DPLØ	TO18	AØ
19	2N2483	360m	60M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	80 Δ	30uØ	13uØ	8.0 Ø	6.0pØ	Ø	TO18	AØ
20	2N2484	360m	60M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	150 Δ	40uØ	24uØ	8.0 Ø	6.0pØ	Ø	TO18	AØ
21	JAN2N2484	360m	60M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	250 Δ	40uØ	24kØ	8.0 Ø	5.0pØ	Ø	TO18	A
22	2N3077	360m	60M§Δ	2.0m	§J	80	60	7.0	50m	.01uØ	5.0Ø	.01mØ	80 †Δ				6pØ	PLØ	TO18	AØ
23	2N3078	360m	60M§Δ	2.0m	§J	80	60	7.0	50m	.01uØ	5.0Ø	.01mØ	25 †Δ				6pØ	PL	TO18	AØ
24	2N3117	360m	60M§Δ	2.0m	§	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	400 Δ	40uØ	24kØ	8 Ø	4.5pØ	Ø	TO18	AØ
25#	BFT53†	360m	60M§Δ	2.0m	§J	80	35	6.0	1.0	50nØ	6.0Ø	1.0mØ	10 Δ				8.0pØ	PE	TO18	A
26#	BFY77	360m	60.M§	2.1m	§J	45	45	6.0	50m	.02uØ	5.0Ø	1.0mØ	450	15u	15k	4.3	3.5p	DPLØ	TO18	AØ
27	GET2484	360m	60M§Δ	3.6m	♦J	60	60	6.0	100m	50nØ	5.0Ø	1.0mØ	150 Δ				4.0p§Ø	PEØ	X93	F
28#	BFX92A	360m	69.M§	2.0m	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	280	11u	7.5k	3.0	3.5p	DPLØ	TO18	AØ
29#	BFX93A	360m	78M§	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	400	15u	15k	4.2	3.5p	DPLØ	TO18	AØ
30#	BC285	360m	80M§	2.0m	§J	120	120	5.0	100m	100n	30Ø	5.0mØ	30 †Δ	5.0m	420	750m	4.0p	DPL	TO18	
31	HEPS0002-RT	360m♦	80M§		†J	25	25 §	5.0	500m§	100n§			160 †						TO92	A
32	HEPS0003-RT	360m♦	80M§		†J	25	25 §	5.0	500m§	100n§			380 †						TO92	A
33	GET929	360m	90M§Δ	3.6m	♦J	70	50	5.0	100m	10n	5.0Ø	10uØ	60 †Δ				1.0p§Ø	PE†	TO18	A
34	GET930	360m	90M§Δ	3.6m	♦J	70	50	5.0	100m	10n			100 †Δ				1.0p§Ø	PE†	TO18	A
35	2N3704	360m	100M§	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	300 †#Ø				12pØ		TO92	B
36	2N3705	360m	100M§	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	150 †#Ø				12pØ		TO92	B
37	2N3706	360m	100M§	2.9m	§S	40	20	5.0	800m	.10uØ	2.0Ø	50mØ	600 †#Ø				12pØ		TO92	B
38	2N5449	360m	100M§Δ	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	100 †#Δ				12p§		X55	A
39	2N5450	360m	100M§Δ	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	50 †#Δ				12p§		X55	A
40	2N5451	360m	100M§Δ	2.9m	§S	40	20	5.0	800m	.10uØ	2.0Ø	50mØ	30 †#Δ				12p§		X55	A
41#	BFR16	360m	100M§	6.9m	§	60	60	8.0	50m	10n	5.0Ø	1.0mØ	150 †Δ	17u	10k	4.3	3.5p	PL	TO18	A
42#	BFR17	360m	100M§	6.9m	§	60	60	8.0	50m	20n	5.0Ø	1.0mØ	450 †Δ	20u	10k	4.5	3.5p	PL	TO18	A
43#	BFT29	360m	100M§Δ	2.0m	§A	90	80	5.0	1.0	100nØ	10Ø	100mØ	50 †Δ				10pØ	PE	TO18	A
44#	BFT30	360m	100M§Δ	2.0m	§A	70	60	5.0	1.0	100nØ	10Ø	100mØ	75 †Δ				10pØ	PE	TO18	A
45#	BFT31	360m	100M§Δ	2.0m	§A	60	50	5.0	1.0	100nØ	10Ø	100mØ	100 †Δ				10pØ	PE	TO18	A
46#	BFT57	360m	110M§	2.1m	§J	160	160	5.0	200m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO18	A
47#	BFT58	360m	110M§	2.1m	§J	250	250	5.0	200m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO18	A
48#	BFT59	360m	110M§	2.1m	§J	300	300	5.0	200m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO18	A
49▼	NPSA20	360m	125M§Δ	2.8m	§J		40	4.0	100m	100n	10Ø	5.0mØ	40 †Δ				4.0p§Ø	†	TO92	A
50#	BCW34	360m	150M	2.7m	§	60	45	5.0	600m	10n	5.0Ø	100mØ	100 Δ	5.0u	40k	10	6.0p	PE	TO18	
51	D32P3	360m	150M§Δ	3.6m	§S	40	30	4.0	100m#	50n	5.0Ø	2.0mØ	100 †Δ	12u	5.0k	2.7	1.5p§Ø		X55a	B
52#	ME6003	360m	150M§Δ	2.8m	§J	25	25 *	4.0		100nØ	5.0Ø	50mØ	30 †Δ				12pØ	PE	R110c	A
53	2N6112	360m	160M§Δ	2.8m	§S	50	30	5.0		10n	5.0Ø	2.0mØ	185 Δ		8.0uØ		10pØ		u29	B
54	D32P4	360m	175M§Δ	3.6m	§S	40	30	4.0	100m#	50n	5.0Ø	2.0mØ	150 †Δ	18u	7.5k	4.1	1.5p§Ø		X55a	B
55	2N706C†	360m	200M§Δ	2.0m	§J	40	15	5.0	50m	1.0uØ	1.0Ø	10mØ	20 †Δ				5.0pØ		TO18	AØ
56	2N919†	360m	200M§Δ	2.1m	§J	25	15	5.0	220m	10u	1.0Ø	10mØ	20 †Δ				7.0pØ		TO18	AØ
57	2N920†	360m	200M§Δ	2.1m	§J	25	15	5.0	220m	10u	1.0Ø	10mØ	40 †Δ				7.0pØ		TO18	AØ
58	2N947	360m	200M§Δ	2.9m	§J	20	15 §	3.0	100m	1.0uØ	1.0Ø	10mØ	30 †#Δ				8pØ	Δ	TO18	AØ
59	2N3827	360m	200M§Δ	2.9m	§S	60	45	4.0	30m	.10uØ	10Ø	10mØ	100 †#Δ				4pØ	†	TO92	B
60	2N3973†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	35 †Δ				7.0pØ		R67b	B
61	2N3974†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	55 †Δ				7.0pØ		R67b	B
62	2N3975†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	35 †Δ				7.0pØ		R67b	B
63	2N3976†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	55 †Δ				7.0pØ		R67b	B
64	2N4994	360m	200M§Δ	2.9m	§S	60	45	4.0	30m	.10uØ	10Ø	10mØ	40 †#Δ				4pØ	†	X55	A
65	2N4995	360m	200M§Δ	2.9m	§S	60	45	4.0	30m	.10uØ	10Ø	10mØ	100 †#Δ				4pØ	†	X55	A
66	2N5525	360m	200M§Δ	2.8m	§S	40	30	9.0	200m	100nØ	10Ø	10m	5.0kΔ				10pØ		X20f	B
67	2N5526	360m	200M§Δ	2.8m	§S	40	30	9.0	200m	100nØ	10Ø	10m	1.0kΔ				10pØ		X20f	B
68#	BFV88†	360m	200M§Δ	500u	§J	60	40	5.0	800m		10Ø	10mØ	75 †#				11pØ	PE	u26a	B
69	BFY26	360m	200M§Δ	2.1m	§J	60	40	6.0	200m	.01u	9.0Ø	10mØ	60 †				5.5pØ	PLØ	TO18	
70#	BSS40†	360m	200M§Δ	2.0m	§J	60	40	5.0	1.0 #	1.0u*	1.0Ø	150mØ	30 †Δ#				10p§Ø	PE	TO18	AØ
71#	BSS41†	360m	200M§Δ	2.0m	§J	60	30	5.0	1.0 #	1.0u*	1.0Ø	150mØ	30 †Δ#				10p§Ø	PE	TO18	AØ
72#	BSX79†	360m	200M§Δ	1.3m	§A						1.0Ø	50mØ	50 Δ				5.0p	NPE	TO18	
73	LDA404†	360m	200M§Δ	2.9m	§J	60	30	5.0	300m	10nØ	10Ø	150mØ	40 †#Δ				8.0pØ	PE	u34	P
74	LDA405†	360m	200M§Δ	2.9m	§J	60	30	5.0	300m	10nØ	10Ø	150mØ	100 †#Δ				8.0pØ	PE	u34	P
75	LDS210†	360m	200M§Δ	2.9m	§J	50	30	5.0	500m	500nØ	1.0Ø	150mØ	30 †Δ#				6.0p	PL	u34c	P
76#	ME6001	360m	200M§Δ	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	20 †Δ				10pØ	PE	R110c	A
77#	ME6002	360m	200M§Δ	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	40 †Δ				10pØ	PE	R110c	A
78	TIS97	360m	200M§Δ	2.8m	§S	60	40	6.0	200m	10uØ	5.0Ø	100uØ	440	11u	115k	30	4.0p§Ø	PE†Ø	X55	A
79	TIS98	360m	200M§Δ	2.8m	§S	80	60	6.0	200m	10uØ	5.0Ø	1.0mØ	240	6.0u	6.4k	1.5	4.0p§Ø	PE†Ø	X55	A
80	TIS99	360m	200M§Δ	2.8m	§S	80	65	6.0	200m	10uØ	5.0Ø	10mØ	130	50u	500	900m	4.0p§Ø	PE†Ø	X55	A
81	TIS110†	360m	200M§Δ	2.8m	§S	60	40	6.0	800m	100n#	1.0Ø	1.0mØ	20 Δ	30uØ	7.5kØ	8.0 Ø	6.5p§Ø	PE†	X55	A
82	2N915	360m	250M§Δ	2.0m	§J	70	50	5.0		.01uØ	5.0Ø	5.0mØ	50 Δ	125uØ	2kØ		3.5pØ		TO18	AØ
83	2N2845†	360m	250M§Δ	2.0m	§J	60	30 *	5.0		.20u§	10Ø	150mØ	30 †Δ#				8pØ		TO18	AØ
84	2N2847†	360m	250M§Δ	2.0m	§J	60	20 *	5.0		.20u§	10Ø	150mØ	40 †Δ#				8pØ		TO18	AØ
85	2N3301†	360m	250M§Δ	2.0m	§J	60	30	5.0	500m	.01u§	10Ø	110mØ	25 Δ				8pØ		TO18	AØ
86	2N3302†	360m	250M§Δ	2.0m	§J	60	30	5.0	500m	.01u§	10Ø	110mØ	50 Δ				8pØ		TO18	AØ
87	2N3946†	360m	250M§Δ	2.0m	§J	60	40	6.0	200m	.01u#Ø	10Ø	1.0mØ	50 Δ	30uØ	6kØ	10 Ø	4pØ	EAØ	TO18	AØ
88	2N4450†	360m	250M§Δ	2.0m	§J	60	30	5.0	500m	10uØ	10Ø	1.0mØ	50 †Δ				8p§Ø		TO46	AØ
89	2N4951†	360m	250M§Δ	2.9m	§S	60	30	5.0	500m	.05uØ	10Ø	150mØ	60 †#Δ				8p§Ø		TO98	B
90	2N4952†	360m	250M§Δ	2.9m	§S	60	30	5.0	500m	.05uØ	10Ø	150mØ	100 †#Δ				8p§Ø		TO98	B
91	2N4953†	360m	250M§Δ	2.9m	§S	60	30	5.0	500m	.05uØ	10Ø	150mØ	200 †#Δ				8p§Ø		TO98	B
92	2N4954†	360m	250M§Δ	2.9m	§S	40	30	5.0	500m	.05uØ	10Ø	150mØ	60 †#Δ				8p§Ø		TO98	B
93	2N5368†	360m	250M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †Δ				8p§Ø		X93	A
94	2N5369†	360m	250M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	50 †Δ				8p§Ø		X93	A
95	2N5370†	360m	250M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	75 †Δ				8p§Ø		X93	A
96	2N5371†	360m	250M§Δ	2.9m	§J	40	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †Δ				8p§Ø		X93	A
97	2N5380†	360m	250M§Δ	2.8m	§J	60	40	6.0	200m	50nØ	10Ø	1.0mØ	50 Δ#	40uØ	8.0kØ	5.0 Ø	4.0p§Ø	Ø	X93	A
98	A5T2222†	360m	250M§Δ	2.8m	§S	60	30	5.0	800m	10nØ	10Ø	100uØ	35 †Δ				8.0pØ	PE†	X55	A
99	A5T3903†	360m	250M§Δ	2.8m	§S	60	40	6.0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.0pØ	PE†	X55	A
100#	BFV85†	360m	250M§Δ	417u	§J	60	30	5.0	800m	.01uØ	10Ø	1.0mØ	25 †Δ				8pØ	PE	u26a	B
101#	BFV85A†	360m	250M§Δ	417u	§J	75	40	6.0	800m	.01uØ	10Ø	1.0mØ	50 Δ	35uØ	8.0kØ	8 Ø	8pØ	PEØ	u26a	B
102#	BFV85B†	360m	250M§Δ	417u	§J	60	30	5.0	800m	.01uØ	10Ø	1.0mØ	50 †Δ				8pØ	PE	u26a	B
103#	BFV88A†	360m	250M§Δ	500u	§J	60	40	5.0	800m	.25uØ	10Ø	10mØ	30 †Δ				8pØ	PE	u26a	B
104#	BFV88B†	360m	250M§Δ	500u	§J	60	40	5.0	800m	.25uØ	10Ø	10mØ	50 †Δ				8pØ	PE	u26a	B
105#	BFV88C†	360m	250M§Δ	500u	§J	60	30	5.0		200uØ	10Ø	150mØ	30 †#Δ				8pØ	PE	u26a	B
106#	BFY27	360m	250M§Δ	2.0m	§J	70	50	5.0		.01uØ	5.0Ø	10mØ	40 †#Δ				3.5pØ	PL	TO18	
107	GET2221	360m	250M	3.6m	♦J	60	30	5.0	400m	10nØ	1.0Ø	150mØ	20 †Δ				8p§Ø	PEΔ	TO18	
108	GET2221A†	360m	250M§Δ	3.6m	♦J	75	40	5.0	400m	10nØ	10Ø	100uØ	20 †Δ		60 Ø		8.0p§Ø	PE	X93	F
109	GET2222	360m	250M	3.6m	♦J	60	30	5.0	400m	10nØ	1.0Ø	150mØ	50 †Δ				8p§Ø	PEΔ	TO18	
110	LDA400	360m	250M§	2.9m	§J	35	35	5.0	30m	.10nØ	5.0Ø	10uØ	40 †Δ				6.0pØ	PEØ	u34	P

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1	LDA400MP*	360m	250M§	2.9m	$J	35	35	5.0	30m	10nØ	5.0Ø	10uØ	40 †△				6.0pØ	Ø	u34	P
2	LDA401	360m	250M§	2.9m	$J	35	35	5.0	30m	10nØ	5.0Ø	10uØ	100 †△				6.0pØ	PEØ	u34	P
3	LDA401MP*	360m	250M§	2.9m	$J	35	35	5.0	30m	10nØ	5.0Ø	10uØ	100 †△				6.0pØ	Ø	u34	P
4	LDA402	360m	250M§	2.9m	$J	35	35	5.0	30m	100n	5.0Ø	1.0mØ	100 †△				6.0pØ	PE	u34	P
5	LDA403	360m	250M§	2.9m	$J	35	35	5.0	30m	100n	5.0Ø	1.0mØ	270 †△				6.0pØ	PE	u34	P
6	MM3903†	360m	250M§△	2.0m	§J	60	40 *	6.0	200m	50n#	10Ø	1.0mØ	50 △	40uØ	8.0kØ	5.0 Ø	5.0pØ	ANØ	TO52	A
7	NPS6512	360m	250M§	2.9m	$J	40	30	4.0	100m	500nØ	10Ø	2.0mØ	50 †△				3.5pØ$	PL	TO92	A
8	NPS6513	360m	250M§	2.9m	$J	40	30	4.0	100m	500nØ	10Ø	2.0mØ	90 †△				3.5pØ$	PL	TO92	A
9	NS3903	360m	250M§△	2.0m	§S	60	40	6.0	200m	50n#	1.0Ø	10mØ	50 △†	40uØ	8.0kØ	5.0 Ø	4.0pØ	Ø	TO18	A
10	TIS109†	360m	250M§△	2.8m	$S	60	30	5.0	800m	100nØ	10Ø	100uØ	20 †△				10pØ	PE†	X55	A
11	TIS111†	360m	250M§△	2.8m	$S	60	40	6.0	800m	100n#	1.0Ø	1.0mØ	40 △	30uØ	15kØ	8.0 Ø	6.5p$Ø	PE†	X55	A
12#	BF291	360m	260M	2.0m	§	50	40	5.0	100m	10n	10Ø	10mØ	100 †				3.5p	PE	TO18	A
13	2N708	360m	300M§△	2.1m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	30 †△				6.0pØ	△	TO18	AØ
14	JAN2N708†	360m	300M§△	2.0m	§S	40	15	5.0		25nØ	1.0Ø	10mØ	40 †△#				6.0pØ		TO18	AØ
15	2N708A	360m	300M§△	2.1m	§J	50	20	5.0		.01uØ	1.0Ø	10mØ	40 †△				6pØ		TO18	A
16	2N784A†	360m	300M§△	2.0m	▼J	40	20 §	5.0	200m	100u	1.0Ø	10mØ	88 †				3.5pØ		TO18	AØ
17	2N914†	360m	300M§△	2.1m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	30 †△#				6.0pØ		TO18	AØ
18	JAN2N914†	360m	300M§△	2.1m	§S	40	15	5.0		25nØ	1.0Ø	10mØ	30 †△#				6.0pØ		TO18	AØ
19	2N916	360m	300M§△	2.0m	§J	45	25	5.0		.01uØ	5.0Ø	5.0mØ	50 △	125uØ	2kØ		6pØ		TO18	AØ
20	JAN2N916	360m	300M§△	2.0m	§S	45	25	5.0	50m	10nØ	5.0Ø	1.0mØ	40 △	75uØ	6.0kØ		6.0pØ	Ø	TO18	AØ
21	2N916A	360m	300M§△	2.1m	§J	45	25	5.0		10nØ	5.0Ø	5.0mØ	50 △	125uØ	2.0kØ		6.0pØ		TO18	AØ
22	2N2242	360m	300M§	2.0m		40	15	5.0		.10u	1.0Ø	10m	80 †				6.0p	PE	TO18	AØ
23	2N2318	360m	300M§	2.0m		30		5.0		1.0u	.40Ø	20m	40 †				5.0p		TO18	
24	2N2481†	360m	300M§△	2.1m	§J	40	15	5.0			1.0Ø	10mØ	40 †#△		60 Ø		5pØ	DE△	TO18	AØ
25	JAN2N2481†	360m	300M§△	2.0m	§J	40	15	5.0		50nØ	1.0Ø	10mØ	40 †△#				5.0pØ		TO18	AØ
26	2N3210†	360m	300M§△	2.0m	▼S	40	15	5.0	500m	10nØ	1.0Ø	10mØ	30 †△#				6.0pØ		TO18	AØ
27	2N3947†	360m	300M§△	2.0m	§J	60	40	6.0	200m	.01u#Ø	10Ø	1.0mØ	100 △	50uØ	12kØ	20 Ø	4pØ	Ø	TO18	A
28	2N4013†	360m	300M§△	2.0m	§J	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †Ø				12pØ		TO18	AØ
29	2N4014†	360m	300M§△	2.0m	§J	80	50	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †Ø				10pØ		TO18	AØ
30	2N4421†	360m	300M§△	2.8m	$S	30	12	5.0	200m	500n§	.40Ø	30mØ	25 †△#				5.0p$Ø		X55	A
31	2N5376	360m	300M§△	2.8m	$J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	200nØb	32 Ø		8.0p$Ø	Ø	X93	A
32	2N5377	360m	300M§△	2.8m	$J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	100 △	200nØb	32 Ø		8.0p$Ø	Ø	X93	A
33	2N5381†	360m	300M§△	2.8m	$J	60	40	6.0	200m	50nØ	10Ø	1.0mØ	100 △#	40uØ	10kØ	8.0 Ø	4.0p$Ø	Ø	X93	A
34#	2SC55	360m	300M§	2.4m	§J	25	25 §	3.0	100m	.50uØ	6.0Ø	1.0m	50				4.0p	PL	TO18	
35#	2SC321H†	360m	300M§△	2.3m	§J	40	15	5.0	200m	.25uØ	1.0Ø	10mØ	30 †△				6pØ	PE	TO18	A
36	A5T3904†	360m	300M§△	2.8m	$S	60	40	6.0	200m	50n#	10Ø	1.0mØ	100 △	40uØ	10kØ	8.0 Ø	4.0pØ	PE†	X55	A
37#	BF224	360m	300M§△	2.9m	$S	45	30	4.0		.10uØ	10Ø	7.0mØ	85 †					PE	X55	C
38#	BFV85C†	360m	300M§△	417u	§J	75	40	6.0	800m	.01uØ	10Ø	1.0mØ	30 △	15uØ	3.5kØ	5 Ø	8pØ	PE	u26a	B
39#	BSV40	360m	300M§	2.0m	§J	40	20	6.0	100m	10n	.35Ø	10mØ	80 †				6.0p	PE	TO18	Ø
40#	BSV41	360m	300M§	2.0m	§J	40	20	6.0	100m	10n	.35Ø	10mØ	150 †				6.0p	PE	TO18	Ø
41#	BSY21†	360m	300M§△	2.1m	§J	40	30 Ø	5.0	500m	.02uØ	1.0Ø	10mØ	30 †#△				6pØ	PE	TO18	
42#	FOS104†	360m	300M§		§						1.0Ø	10mØ	80				8.0p		TO18	AØ
43	GET706	360m	300M§△	3.6m	♦J	25	15	3.0	200m	25nØ	1.0Ø	10mØ	20 †△#				6p$Ø	PE△	TO18	
44	GET708†	360m	300M§△	3.6m	♦J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 †△#				6p$Ø	PE△	TO18	
45	GET914†	360m	300M§△	3.6m	♦J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 †△#				6p$Ø	PE△	TO18	
46	GET2222A†	360m	300M§△	3.6m	♦J	75	40	5.0	400m	10nØ	10Ø	100uØ	35 †△		60 Ø		8.0p$Ø	PE	X93	F
47	MM3904†	360m	300M§△	2.0m	§J	60	40 *	6.0	200m	50n#	10Ø	1.0mØ	100 △	40uØ	10kØ	8.0 Ø	5.0pØ	ANØ	TO52	A
48#	NKT13329†	360m	300M§△	2.0m	§J	30	15	5.0	500m	20nØ	10Ø	1.0mØ	40 †				5.0p		TO18	AØ
49#	NKT13429†	360m	300M§△	2.0m	§J	30	15	5.0	500m	20nØ	10Ø	1.0mØ	80 †				5.0p		TO18	AØ
50	NS3904	360m	300M§△	2.0m	§S	60	40	6.0	200m	50n#	1.0Ø	10mØ	100 △†	40uØ	10kØ	8.0 Ø	4.0pØ	Ø	TO18	A
51#	ZT708	360m	300M§	2.0m	▼J	30		5.0		25nØ	1.0	10m	120				6.0p	PL	TO18	
52	2N913	360m	350M		§J	25		5.0		.05u	1.0Ø	10mØ	75 †				6.0p	PLE	TO18	
53	2N2501†	360m	350M§△	2.1m	§J	40	20	6.0		25n#	1.0Ø	10mØ	50 †#△				4.0pØ		TO18	AØ
54	2N2651†	360m	350M§△	2.1m	§J	40	20	5.0	500m	30nØ	1.0Ø	10mØ	25 †△				4.0pØ		TO18	AØ
55	2N3009†	360m	350M§△	2.0m	§J	40	15	4.0	200m	.50u§	.40Ø	30mØ	30 †#△				5pØ		TO52	AØ
56	2N3013†	360m	350M§△	2.0m	§J	40	15	5.0	200m	.30u§	.40Ø	30mØ	30 †#△				5pØ		TO52	AØ
57	JAN2N3013†	360m	350M§△	2.1m	§J	40	20	5.0	300m	40uØ†	.40Ø	30mØ	35 †△#				5.0pØ		TO52	AØ
58	2N3014†	360m	350M§△	2.0m	§J	40	20	5.0	200m	.30u§	.40Ø	30mØ	30 †#△				5pØ		TO52	AØ
59	2N3211	360m	350M§△	2.1m	§J	40	15	6.0	500m		1.0Ø	10mØ	50 †△				4pØ		TO18	AØ
60	2N3510†	360m	350M§△	2.0m	§S	40	10	6.0	500m	25n#Ø	10Ø	15mØ	25 †△	100uØ	4.5kØ	25 Ø	4pØ		TO52	AØ
61	2N4420†	360m	350M§△	2.8m	$S	40	20	5.0	200m	500n§	.40Ø	30mØ	30 †△#				5.0p$Ø		X55	A
62	2N4422†	360m	350M§△	2.8m	$S	40	15	5.0	200m	500n§	.40Ø	30mØ	30 †△#				5.0p$Ø		X55	A
63#	2SC172A	360m	350M§	2.0m	§J	40	20 §	5.0	50m	25nØ	6.0Ø	10m	60				7.0pØ	PL	TO18	
64#	BSV59†	360m	350M§		§						10Ø	500mØ	50 †				10p	PE	TO18	A
65#	BSX88A†	360m	350M§	2.0m	§J	40	20	5.5		.30uØ	1.0Ø	10mØ	50 †#				3.0p	DPE	TO18	AØ
66	GET3013†	360m	350M§△	3.6m	♦J	40	15	5.0	200m	.1u§Ø	.40Ø	30mØ	30 †△				4.5p$	PE△	TO18	
67	GET3014†	360m	350M§△	3.6m	♦J	40	20	5.0	200m	.1u§Ø	.40Ø	30mØ	30 †△				4.5p$	PE△	TO18	
68	GET3646†	360m	350M§△	3.6m	♦J	40	15	5.0	200m	.1u§Ø	.40Ø	30mØ	30 †△				4.5p$	PE△	TO18	
69#	BFY74	360m	360M§	2.1m	§J	60	45	5.0		.01uØ	5.0Ø	5.0mØ	90	20u	800		3.0p	DPL	TO18	AØ
70#	BFY75	360m	360M§	2.1m	§J	60	45	5.0		.01uØ	5.0Ø	5.0mØ	130	30u	1.0k		3.0p	DPL	TO18	AØ
71#	BSX87†	360m	370M§	2.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	55 †#				4.5p	DPE	TO18	AØ
72#	BF291A	360m	380M§	2.0m	§J	50	40	5.0	100m	10nØ	10Ø	10mØ	60 †△				3.5p	DPE	TO18	
73#	BF291B	360m	380M§	2.0m	§J	50	40	5.0	100m	10nØ	10Ø	10mØ	100 †△				3.5p	DPE	TO18	
74#	BF293A	360m	380M§	2.0m	§J	50	45	5.0	100m	10u	10Ø	10mØ	170 †				2.7p	PL	TO18	A
75#	BF293D	360m	380M§	2.0m	§J	50	45	5.0	100m	10u	10Ø	10mØ	100 †				2.7p	PL	TO18	A
76	NPS6514	360m	390M§	2.9m	§J	40	25	4.0	100m	500nØ	10Ø	2.0mØ	150 †△				3.5pØ$	PL	TO92	A
77	NPS6515	360m	390M§	2.9m	§J	40	25	4.0	100m	500nØ	10Ø	2.0mØ	250 †△				3.5pØ$	PL	TO92	A
78	NPS6520	360m	390M§	2.9m	§J	40	25	4.0	100m	500nØ	10Ø	2.0mØ	200 †△				3.5pØ$	PL	TO92	A
79	NPS6521	360m	390M§	2.9m	§J	40	25	4.0	100m	500nØ	10Ø	2.0mØ	300 †△				3.5pØ$	PL	TO92	A
80	2N921†	360m	400M§	63u	§J	50	20	5.0	200m	10uØ	10Ø	10mØ	4.0				4.0p	ME	TO18	AØ
81	2N922	360m	400M	63u	§J	50	20	5.0	200m	10uØ	10Ø	10mØ	4.0				4.0p	ME	TO18	AØ
82	2N2368†	360m	400M§△	2.0m	§J	40	15	4.5	500m	400nØ	1.0Ø	10mØ	20 †#△				4.0pØ		TO18	AØ
83	2N3011†	360m	400M§△	2.0m	§J	30	12	5.0	200m	.40u§	.35Ø	10mØ	30 †#△				4pØ	PE	TO18	AØ
84	2N4419†	360m	400M§△	2.9m	$S	30	12	4.5	200m	.40uØ	1.0Ø	10mØ	30 †#△				4p$Ø	†	X55	A
85#	2SC67†	360m	400M§		§J	40	40 Ø	5.0	200m	.10u	1.0Ø	10mØ	80 †					PE	TO18	
86#	2SC68†	360m	400M§		§J	40	15	5.0	200m	.10u	1.0Ø	10mØ	100 †				3.5p	PE	TO18	
87#	BF225	360m	400M§△	2.9m	$S	50	40	4.0		.10uØ	10Ø	4.0mØ	75 †					PE	X55	C
88#	BF596	360m	400M	2.4m	§	40	30	4.0	25m		5.0	15m	10					PE	X20	
89#	BFW68†	360m	400M§	2.0m	§J	50	40	5.0		.01uØ	5.0Ø	5.0mØ	50 △	125uØ	2kØ	5 Ø	3.0p	DPE	TO18	AØ
90#	BSS26†	360m	400M§	2.0m	§J						1.0Ø	100mØ	40 †				4.8p		TO18	
91#	BSV89†	360m	400M		§						1.0Ø	10mØ	40				4.0p		TO18	A
92#	BSV90†	360m	400M		§						1.0Ø	10mØ	40				4.0p		TO18	A
93#	BSV91†	360m	400M		§						1.0Ø	10mØ	40				4.0p		TO18	A
94#	BSX88†	360m	400M§	2.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	45 †#				4.0p	DPE	TO18	AØ
95#	ZT2368†	360m	400M§△		§	40		4.5			10Ø	10mØ	20 †△					PL	TO18	
96#	ZT2369†	360m	400M§△		§	40		4.5			10Ø	10mØ	40 †△					PL	TO18	
97#	ZT2369A†	360m	400M§△		§	40		4.5			10Ø	10mØ	40 †△					PL	TO18	
98#	2SC300	360m	420M§	2.0m	§J	25	15	5.0	100m	.50uØ	10Ø	.10mØ	50 †#				3.5p	PE	TO18	AØ
99#	2SC301	360m	420M§	2.0m	§J	25	15	5.0	100m	.01uØ	10Ø	.10mØ	50 †#				3.5p	PE	TO18	AØ
100#	2SC302	360m	420M§	2.0m	§J	50	20	5.0	100m	.01uØ	10Ø	.10mØ	50 †#				3.5p	PE	TO18	AØ
101	2N3511†	360m	450M§△	2.0m	§S	40	15	6.0	500m	25n#Ø	1.0Ø	150mØ	30 †△	100uØ	4.5kØ	25 Ø	4pØ		TO52	AØ
102	2N914/46	360m	480M△	2.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	30 †				6.0p	PE	TO46	
103	2N743A†	360m	500M§△	2.0m	§J	40	15	5.0		1.0u	.35Ø	10mØ	20 †△				3pØ	PE	TO18	A
104	2N744A†	360m	500M§△	2.0m	§J	40	15	5.0		1.0u	.35Ø	10mØ	40 †△				3pØ	PE	TO18	A
105	2N834A	360m	500M§△	2.0m	§J	40	30 Ø	5.0	200m	.50uØ	1.0Ø	10mØ	25 †△				4pØ		TO18	AØ
106	2N915A	360m	500M§△	2.1m	§J	70	50	5.0		2nØ	5.0Ø	5.0mØ	50 △	125uØ	2kØ		3pØ	Ø	TO18	AØ
107	2N916B	360m	500M§△	2.1m	§J	60	30	5.0		2nØ	5.0Ø	5.0mØ	50 △	125uØ	2kØ		3pØ	Ø	TO18	AØ
108	2N2369†	360m	500M§△	2.0m	§J	40	15	4.5	500m	400nØ	1.0Ø	10mØ	40 †#△				4.0pØ		TO18	AØ
109	2N2369A†	360m	500M§△	2.0m	§J	40	15	4.5	200m	.40u§Ø	.35Ø	10mØ	40 †#△				4pØ		TO18	AØ
110	JAN2N2369A†	360m	500M§△	2.0m	§J	40	15	4.5		30uØ†	1.0Ø	10mØ	40 †△				4.0p		TO18	AØ

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	2N2710†	360m	500M§Δ	2.0m	§J	40	20	5.0	500m	.03uØ	1.0Ø	10mØ	40 †Δ				4pØ	PE	TO18	AØ
2	2N3227†	360m	500M§Δ	2.0m	§J	40	20	6.0	200m	.20uØ	1.0Ø	10mØ	100 †Δ#				4pØ		TO18	AØ
3	2N4137†	360m	500M§Δ	2.0m	§J	40	40 Ø	4.5	200m	30u†Ø	.35Ø	10mØ	40 †#				4p$Ø	DPE	TO18	AØ
4	2N4418†	360m	500M§Δ	2.9m	§S	40	15	4.5	200m	.40uØ	1.0Ø	10mØ	40 †#Δ				4p$Ø	†	X55	A
5#	2SC764†	360m	500M§Δ		§J						1.0Ø	10mØ	40 †Δ				4.0pØ	PE	TO18	AØ
6#	BFX43	360m	500M§	2.0m	§J	30	15	4.0	125m	100nØ	1.0Ø	10mØ	20 †Δ					PE	TO18	Ø
7#	BFX44	360m	500M§	2.0m	§J	40	15	4.0	125m	100nØ	1.0Ø	10mØ	40 †Δ					PE	TO18	Ø
8#	BSV92†	360m	500M		§						1.0Ø	10mØ	70				4.0p		TO18	A
9♦#	BSX20†	360m	500M§Δ	2.1m	§J	40	15	4.5	500m#	400nØ	1.0Ø	10mØ	60 †Δ				4.0p$Ø	PE	TO18	AØ
10	LDS200†	360m	500M§Δ	2.9m	§J	30	15	4.5		500nØ	1.0Ø	10mØ	20 †Δ				4.0pØ	PE	TO122	P
11	LDS201†	360m	500M§Δ	2.9m	§J	30	15	4.5		500nØ	1.0Ø	10mØ	40 †Δ				4.0pØ	PE	TO122	P
12#	BSX26†	360m	550M§	2.0m	§J	40	15	4.0		500nØ	.40Ø	30mØ	60 †#				3.3p	DPE		
13#	BSX92†	360m	550M§	2.0m	§J						1.0Ø	10mØ	20 Δ#				4pØ	PE	TO18	
14	2N3862†	360m	600M§Δ	2.0m	§A	50	20	4.5	200m	.05uØ	1.0Ø	10mØ	50 †#Δ				4pØ		TO72	G
15	2N5081	360m	600M§Δ	2.1m	§S	70	50	5.0		.01uØ	5.0Ø	1.0mØ	100 Δ				3p$Ø	Ø	TO18	AØ
16	2N5082	360m	600M§Δ	2.1m	§S	60	30	5.0		.01uØ	5.0Ø	1.0mØ	100 Δ				3p$Ø	Ø	TO18	AØ
17	2N5399§	360m	600M§Δ	2.4m	§S	25	15	2.0	100m	.01uØ	1.0Ø	1.0mØ	30 Δ				3p$	Δ	TO46	AØ
18	JAN2N5399	360m	600M§Δ	2.4m	§S	25	15	2.0	100m	10nØ	1.0Ø	1.0mØ	30 †Δ				3.0p$Ø	Δ	TO46	AØ
19#	BSX39†	360m	600M§	2.0m	§J	45	20	5.0		100n§	.40Ø	30mØ	60 †#				4.0p	DPE	TO18	Ø
20#	BSX87A†	360m	600M§	2.0m	§J	40	15	5.0		.30uØ	1.0Ø	10mØ	55 †#				2.5p	DPE	TO18	AØ
21#	FOS102	360m	600M§	2.0m	§J	30	12	5.0	500m#	300nØ	1.0Ø	25mØ	100 †				6.0p	PEΔ	TO18	AØ
22	LDS205†	360m	600M§Δ	2.9m	§J	15	6.0	4.0	100m	500nØ	1.0Ø	10mØ	20 †Δ				3.0pØ	PE	TO122	P
23#	BSX28†	360m	650M§	2.0m	§J	30	12	4.5		.40u§	1.0Ø	100mØ	50 †#				2.3p	DPE	TO18	AØ
24#	BSX93†	360m	650M§	2.0m	§J						1.0Ø	10mØ	40 Δ#				4pØ	PE	TO18	
25	2N4873†	360m	700M§Δ	2.0m	§J	40	15	4.5	200m	.40u§	1.0Ø	10mØ	150 †#				4pØ		TO18	AØ
26#	2SC639†	360m	750M§	2.0m	§J	40	40 Ø	5.0	200m	400nØ	1.0Ø	10mØ	80				1.5p	PE	TO18	
27#	BF223	360m	750M§	2.9m	§J	35	25 *	4.0	40m	10u	10Ø	15mØ	79 †Δ				350ft	PE†	MM11	C
28#	BF311	360m	750M§	2.9m	§J	35	25 *	4.0	40m	10u	10Ø	15mØ	79 †Δ				350ft	PE†	u99	C
29#	MA9001†	360m	750M§	2.9m	§J	40	40 Ø	4.5		300nØ	1.0Ø	10mØ	40 †Δ				4.0pØ	PEΔ	TO18	
30#	MA9002†	360m	750M§	2.9m	§J	30	30 Ø	4.5		300nØ	1.0Ø	10mØ	30 †Δ				4.0pØ	PEΔ	TO18	
31#	MA9003†	360m	750M§	2.9m	§J	18	18 Ø	4.0		1.0uØ	5.0Ø	10mØ	25 †Δ				4.0pØ	PEΔ	TO18	
32	2N5107§	360m	900M§Ø	2.0m	§J	60	30	5.0	500m	.01uØ	10Ø	150mØ	100 †#Δ				8p$Ø	Δ	TO18	A
33	LDA406	360m	900M§	2.9m	§J	30	15	3.0	25m	10nØ	10Ø	3.0mØ	20 Δ†				3.0pØ	PEØ	TO122	P
34	LDA412	360mØ	1.0GΔ§	2.9m	J§	20	10	2.5	50m	50nØ	5.0Ø	25mØ	25 †Δ				1.5pØ	PE	TO122	P
35	LDA420	360m	1.0G§Δ	2.9m	§J	40	25	2.0	150m		5.0Ø	50mØ	25 †Δ				4.0p$Ø	PE	TO122	P
36	TDA412	360mØ	1.0GΔ§	2.9m	J§	20	10	2.5	50m	50nØ	5.0Ø	25mØ	25 †Δ				1.5pØ	PE	u103	F
37	TDA420	360m	1.0G§Δ	2.9m	§J	40	25	2.0	150m		5.0Ø	50m	25 †Δ				4.0p$Ø	PE	u103	F
38	LDA407	360m	1.5G§	2.9m	§J	30	15	2.5	25m	10nØ	5.0Ø	15mØ	25 Δ†				1.0p$Ø	PEØ	TO122	P
39#	BFR25†	375m	50M§Δ	570m	§J						1.0Ø	20mØ	20 †Δ				6.0p$Ø		TO18	AØ
40#	BC377	375m	200M§	2.5m	§J	50	45	6.0	1.0	15n	1.0Ø	100mØ	75 †Δ					PE	TO18	A
41#	BC378	375m	200M§	2.5m	§J	30	25	6.0	1.0	15n	1.0Ø	100mØ	75 †Δ					PE	TO18	A
42#	2SC918	375m	400M§		§J	20	20	3.0	30m	200nØ	10Ø	4.0mØ	20 †Δ				450ft†Ø	DM	TO104	
43#	BCY59A	390m	150M§Δ	2.2m	§J	45	45	7.0	200m	.01u	5.0Ø	2.0mØ	200					PE	TO18	AØ
44#	BCY59B	390m	150M§Δ	2.2m	§J	45	45	7.0	200m	.01u	5.0Ø	2.0mØ	260					PE	TO18	AØ
45#	BCY59C	390m	150M§Δ	2.2m	§J	45	45	7.0	200m	.01u	5.0Ø	2.0mØ	330					PE	TO18	AØ
46#	BCY59D	390m	150M§Δ	2.2m	§J	45	45	7.0	200m	.01u	5.0Ø	2.0mØ	520					PE	TO18	AØ
47	2N4074	400m#		3.3m	§S	40	40	8.0	300m	10nØ	12Ø	10mØ	400 Ø						R123	AØ
48	2N5418	400m		4.0m	§S	25	25	5.0	500m	100n	10Ø	2.0mØ	25 Δ				6.0p$Ø		TO98	B
49	2N5419	400m		4.0m	§S	25	25	5.0	500m	100n	10Ø	2.0mØ	70 Δ				6.0p$Ø		TO98	B
50	2N5420	400m		4.0m	§S	25	25	5.0	500m	100n	10Ø	2.0mØ	150 Δ				6.0p$Ø		TO98	B
51	2N5998	400m		4.0m	§S	35	25	5.0	500m	30nØ	2.0Ø	10mØ	150 Δ				6.0p$Ø	Ø	TO98	B
52	2N6008	400m		4.0m	§S	35	25	5.0	500m	30nØ	2.0Ø	10mØ	250 Δ				6.0p$Ø	Ø	TO98	B
53#	2SC853	400m			§J	70	60	5.0	200m	100n	1.0Ø	50mØ	80 †					PE	X28a	B
54#	2SC881	400m			§J	60	45	5.0	200m	100n	1.0Ø	50mØ	80 †					PE	X28a	B
55#	BC282	400m		2.2m	§J	60	30	5.0	600m	50n	5.0Ø	50mØ	50 †Δ	660m	240	3.6	5.5p	DPE	TO18	
56	IT120*	400mØ		2.3mØ	§J	45	45	7.0	10m	1.0n	5.0Ø	10uØ	200 †Δ				2.0pØ	PL*	L79	
57	IT121*	400mØ		2.3mØ	§J	45	45	7.0	10m	1.0n	5.0Ø	10uØ	80 †Δ				2.0pØ	PL*	L79	
58	2N5066Ø	400m	5.0M§Δ	2.3m	§S	30	20	30	100m	1.0n							10pØ	Δ	TO46	AØ
59#	BF250	400m	20.M§	2.7m	§A	15	15	3.0	600m		5.0Ø	.01m	30 †Δ				8.0p	PEØ	TO18	AØ
60	2N929/46	400m	30M§Δ	3.0m	§J	45	45	5.0	30m	10n	5.0Ø	1.0 Ø	60 Δ	1.0 Øb	32 Ø	6.0 Ø	8.0p	PLØ	TO46	
61	2N930/46	400m	30M§Δ	3.0m	§J	45	45	5.0	30m	10n	5.0Ø	1.0mØ	150 Δ				8.0p	PLØ	TO46	
62	2N930A/46	400m	30M§Δ	3.0m	§J	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150	1.0ub	28	6.0	4.0p	PLØ	TO46	
63	2N2514	400m	30M	2.3m	§S	80	60	6.0	100m	5.0nØ	5.0Ø	1.0m	15 Δ		1.2k		6.0pØ		TO46	Ø
64	2N2517	400m	30M§Δ	2.2m	§S	125	80	8.0	50m	5.0nØ	5.0Ø	5.0m	20 Δ		1.2k		6.0pØ		TO46	AØ
65#	BFV98	400m	30M§Δ	2.6m	§J	45	45	5.0	30	50n	5.0Ø	10uØ	100 †Δ	b	32 Ø	6.0 Ø	8.0pØ	PEØ	L56f	
66#	BFV98N	400m	30M§Δ	2.6m	§J	45	45	5.0	30	50n	5.0Ø	10uØ	100 †Δ	b	32 Ø	6.0 Ø	8.0pØ	PEØ	L56g	
67	2N717	400m	40M§Δ	10mØ	§J	60	40 §	5.0		1.0uØ	10Ø	150mØ	20 †#Δ				35pØ	DΔ	TO18	AØ
68	2N719	400m	40M§Δ	10mØ	§J	120	80 §	5.0		2.0uØ	10Ø	5.0mØ	25 Δ	500nØb	35 Ø	2.5 Ø	20pØ		TO18	AØ
69#	C400	400m	40M§Δ	2.7m	§J	60	30	4.0		100nØ	10Ø	100mØ	40 †Δ	14u	600	1.1	25pØ	PE	TO18	Ø
70	2N718	400m	50M§Δ	10mØ	§J	60	40 §	5.0		1.0uØ	10Ø	150mØ	40 †#Δ				35pØ	DΔ	TO18	AØ
71	2N720	400m	50M§Δ	10mØ	§J	120	80 §	5.0		2.0uØ	10Ø	5.0mØ	45 Δ	500nØb	30 Ø	2.5 Ø	20pØ	"	TO18	AØ
72	2N909	400m	50M§Δ	2.6m	§J	60	30 §	5.0		1.0uØ	5.0Ø	1.0mØ	40 Δ	500nØb	35 Ø	8.0 Ø	35pØ		TO18	AØ
73	2N2350†	400m	50M§Δ	2.3m	§J	60	40	5.0	1	.01uØ	10Ø	150mØ	100 †#Δ				20pØ	PE	TO46	AØ
74	2N2350A†	400m	50M§Δ	2.3m	§J	60	40	5.0	1	.01uØ	10Ø	150mØ	100 †#Δ				20pØ	PE	TO46	AØ
75	2N2351†	400m	50M§Δ	2.3m	§J	80	50	8.0	1	.01uØ	10Ø	150mØ	40 †#Δ				20pØ	PE	TO46	AØ
76	2N2351A†	400m	50M§Δ	2.3m	§J	80	50	8.0	1	.01uØ	10Ø	150mØ	40 †#Δ				20pØ	PE	TO46	AØ
77	2N2352†	400m	50M§Δ	2.3m	§J	60	40	5.0	1	.01uØ	10Ø	150mØ	20 †#Δ				20pØ	PE	TO46	A
78	2N2352A†	400m	50M§Δ	2.3m	§J	60	40	5.0	1	.01uØ	10Ø	150mØ	20 †#Δ				20pØ	PE	TO46	AØ
79	2N2364†	400m	50M§Δ	2.3m	§J	120	80	7.0	1	.01uØ	10Ø	150mØ	40 †#Δ				15pØ	PE	TO46	AØ
80	2N2364A†	400m	50M§Δ	2.3m	§J	120	80	7.0	1	.01uØ	10Ø	150mØ	40 †#Δ				15pØ	PE	TO46	AØ
81	2N2520	400m	50MΔ	2.2m	§S	60	60	8.0	100m	5.0nØ	5.0	1.0m	18 Δ	1.0uØb	35 Ø	6.0 Ø	6.0pØ		TO46	AØ
82	2N2521	400m	50MΔ	2.2m	§S	60	60	8.0	100m	5.0nØ	5.0	1.0m	36 Δ	1.0uØb	35 Ø	6.0 Ø	6.0pØ		TO46	AØ
83	2N2522	400m	50MΔ	2.2m	§S	60	60	8.0	100m	5.0nØ	5.0	1.0m	76 Δ	1.0uØb	35 Ø	6.0 Ø	6.0pØ		TO46	AØ
84	2N2909	400m	50M§Δ	2.3m	§J	60	40	7.0	1	.01uØ	10Ø	10mØ	30 †Δ				20pØ	Δ	TO46	AØ
85	2N2515	400m	60.M	2.3m	§S	80	60	6.0	100m	5nØ	5.0Ø	1.0m	30 Δ		1.5k		6pØ		TO46	AØ
86	2N2518	400m	60M§Δ	2.2m	§S	125	80	8.0	50m	5.0nØ	5.0Ø	5.0m	40 Δ		1.5kØ		6.0pØ		TO46	AØ
87	2N5305	400m	60M§Δ	4.0m	§S	25	25	12	200m	100n	5.0Ø	2.0mØ	2.0kΔ				10p$Ø		L3f	
88	2N5306	400m	60M§Δ	4.0m	§S	25	25	12	200m	100n	5.0Ø	2.0mØ	7.0kΔ				10p$Ø		L3f	
89	2N5307	400m	60M§Δ	4.0m	§S	40	40	12	200m	100n	5.0Ø	2.0mØ	2.0kΔ				10p$Ø		L3f	
90	2N5308	400m	60M§Δ	4.0m	§S	40	40	12	200m	100n	5.0Ø	2.0mØ	7.0kΔ				10p$Ø		L3f	
91	40234	400m#	60.M§	3.3m	§J	18	18	5.0	100m	.50uØ	10Ø	2.0mØ	80				22p	PLØ	R92	AØ
92#	C441	400m	60M§	2.3m	§J	45	45	5.0		500n	5.0Ø	1.0mØ	290 †				6.0p	PL	TO18	A
93	2N2523	400m	70M§Δ	2.2m	▼S	60	45	6.0	30m	2.0nØ	5.0	1.0m	60 Δ	1.0uØb	32 Ø	6.0 Ø	6.0pØ	Ø	TO46	AØ
94	2N2524	400m	70M§Δ	2.2m	▼S	60	45	6.0	30m	2.0nØ	5.0	1.0m	150 Δ	1.0uØb	32 Ø	6.0 Ø	6.0pØ	Ø	TO46	AØ
95	2N3340†	400m	70M§Δ	2.6m	§A	30	20	5.0	30m	1nØ	1.0Ø	.01mØ	40 †Δ				6pØ		TO46	AØ
96	2N3056	400m	80M§Δ	2.2m	§J	100	60	7.0	1.0	10nØ	10Ø	100uØ	30 Δ				12pØ	PL	TO46	AØ
97	2N3056A	400m	80M§Δ	2.3m	§J	140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	30 Δ				12pØ		TO46	AØ
98	2N2516	400m	99.M	2.3m	§S	80	60	8.0	100m	5nØ	5.0Ø	1.0m	60 Δ		1.8k		6pØ		TO46	AØ
99	2N2459	400m	100M§Δ	2.2m	▼S	100	60	8.0	50m	2.0mØ	5.0Ø	5.0mØ	40 Δ	30uØ	800 Ø		5.0pØ		TO46	AØ
100	2N2519	400m	100M§Δ	2.2m	§S	125	80	8.0	50m	5.0nØ	5.0Ø	5.0m	80 Δ		1.8kØ		6.0pØ		TO46	AØ
101	2N3057	400m	100M§Δ	2.3m	§J	100	60	7.0		10nØ	10Ø	150mØ	100 †#Δ	4.0u	1.5k	800m	12pØ	PL	TO46	AØ
102	2N3057A	400m	100M§Δ	2.3m	§J	140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	80 Δ				12pØ	Ø	TO46	AØ
103	JAN2N3057A	400m	100M§Δ	2.3m	§J	140	80	7.0	1.0	10n§	5.0Ø	1.0mØ	80 Δ				12pØ	Ø	TO46	AØ
104	IT124*	400m	100M§Δ	2.3m	§J	2.0	2.0	7.0	10m	100pØ	1.0Ø	1.0uØ	1.5k†Δ				800fØ	PLØ	L79	
105#	ME8002	400m	100M§	3.2m	§J	120	80 *	7.0		10nØ	10Ø	100uØ	25 †Δ	500nØb	40 Ø	1.5 Ø	10pØ	PE	R110d	A
106#	ME8003	400m	100M§	3.2m	§J	80	60 *	7.0		10nØ	10Ø	100uØ	50 †Δ	300nØb	40 Ø	1.5 Ø	10pØ	PE	R110d	A
107	2N2460	400m	120M§Δ	2.2m	▼S	100	60	8.0	50m	2.0nØ	5.0Ø	5.0mØ	70 Δ	60uØ	1.2kØ		5.0pØ		TO46	AØ
108#	2S102	400m	120M§	2.6m	§A	60	45	4.5	50m	.25uØ	5.0	10m	40	25u	450	.90	5.0p	ME	TO18	
109#	2S731	400m	120M	5.6m	#J	30	30	3.0	50m	1.0u	5.0	5.0m	40	25u	450	.90	5.0p	ME	TO18	
110#	2S732	400m	120M	5.6m	#J	30	30	3.0	50m	1.0u	5.0	5.0m	60	25u	450	.90	5.0p	ME	TO18	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2S733	400m	120M	5.6m	#J	30	30	3.0	50m	1.0u	5.0	5.0m	100	25u	450	.90	5.0p	ME	TO18	
2#	2SC1213AK†	400m	120M§	4.0m	♦J						3.0Ø	10mØ	320 †☑*				7.0p	PE	u132	B
3#	2S103	400m	135M§	2.6m	§A	60	45	4.5	50m	.25uØ	5.0	10m	65	65u	60	1.1	5.0p	ME	TO18	
4	2N2461	400m	140M§△	2.2m	▼S	100	60	8.0	50m	2.0nØ	5.0Ø	5.0mØ	115 △	90u☑	1.8k☑		5.0p☑		TO46	AØ
5	2N4100*	400m	150M§△	4.3m	§S	55	55	7.0	10m	.10u†Ø	5.0Ø	1.0mØ	175 †△				.8p☑		L2m	
6#	2S104	400m	150M§	2.6m	§A	60	45	4.5	50m	250nØ	5.0	10m	90	95u	1.0k	1.3	5.0p	ME	TO18	
7#	TS2221	400m	150M§△	2.3m	§J	60	30	5.0	800m	20nØ	10Ø	10mØ	35 †				12p☑	PE	TO18	AØ
8#	TS2222	400m	150M§△	2.3m	§J	60	30	5.0	800m	20nØ	10Ø	10mØ	75 †				12p☑	PE	TO18	AØ
9	2N2462	400m	160M§△	2.2m	▼S	100	60	8.0	50m	2.0nØ	5.0Ø	5.0mØ	160 △	120u☑	2.4k☑		5.0p☑		TO46	AØ
10#	BFV96†	400m	175M§△	2.6m	§J	40	25	5.0	800m	.50uØ	1.0Ø	500mØ	25 †△*				15p☑	PE	L56f	
11#	BFV96N†	400m	175M§△	2.6m	§J	40	25	5.0	800m	.50uØ	1.0Ø	500mØ	25 †△*				15p☑	PE	L56g	
12	2N706/46†	400m	200M§△	3.3m	§J	25	20 §	3.0		50nØ	1.0Ø	10mØ	20 †#△				6.0p☑	D	TO46	A
13	2N753/46†	400m	200M§△	3.3m	§J	25	20 §	5.0	200m	500nØ	1.0Ø	10mØ	40 †△				5.0p☑	E	TO46	
14#	2SC1317	400m	200M§	4.0m	♦J	30	25	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	TO92	B
15#	2SC1318	400m	200M§	4.0m	♦J	60	50	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	TO92	B
16#	BSY62A†	400m	200M§△	2.0m	§J	25	15	5.0	200m	500nØ	1.0Ø	10mØ	60 †☑				2.7p	PE	TO18	A
17#	BSY62B†	400m	200M§△	2.0m	§J	25	15	5.0	200m	500nØ	1.0Ø	10mØ	300 †☑				2.7p	PE	TO18	A
18#	MA6001	400m	200M§	3.2m	§J	40	30	5.0		50n§	1.0Ø	50mØ	30 †△				5.0p	PE	TO18	
19#	MA6002	400m	200M§	3.2m	§J	40	30	5.0		50n§	1.0Ø	50mØ	75 †△				5.0p	PE	TO18	
20#	MA6003	400m	200M§	3.2m	§J	25	25	4.0		100nØ	5.0Ø	50mØ	30 †△				5.0p	PE	TO18	
21#	ME8001	400m	240M§	3.2m	§J	40	30 *	5.0		500nØ	5.0Ø	1.0mØ	200	15u	4.9k	4.2	7.0p	PEØ	R110d	A
22	2N3115†	400m	250M§△	2.6m	§J	60	20	5.0	600m	25nØ	10Ø	150mØ	40 †△				8.0p☑	PE△	TO18	A
23	2N3116†	400m	250M§△	2.6m	§J	60	20	5.0	600m	25nØ	10Ø	150mØ	100 †△				8.0p☑	PE△	TO18	A
24	40283†	400m	250M§△	2.3m	§S	60	30	5.0			1.0Ø	500mØ	10 †△#				10p☑	DPE	TO46	AØ
25#	BF248	400m	250M§	2.7m	§A	30	25	3.0	600m		10Ø	5.0mØ	20 †△				6.0p	PE	TO18	AØ
26#	BFV93	400m	250M§△	2.6m	§J	50	30	5.0	800m	.05uØ	10Ø	150mØ	80 †△*					PE	L56h	
27#	BFV93N†	400m	250M§△	2.6m	§J	50	30	5.0	800m	.05uØ	10Ø	150mØ	80 †△*				5.0p	PE	L56j	
28#	BFV94†	400m	250M§△	2.6m	§J	50	30	5.0	800m	.05uØ	10Ø	150mØ	80 †△*				5.0p	PE	L56f	
29#	BFV94N†	400m	250M§△	2.6m	§J	50	30	5.0	800m	.05uØ	10Ø	150mØ	80 †△*				5.0p	PE	L56g	
30#	BFX95A	400m	250M	2.3m	§	60	30	5.0		10n	10Ø	150mØ	100 †				8.0p	PE	TO18	A
31	D2T2218†	400m	250M§△	2.3m	§S	60	30	5.0	800m	10nØ	10Ø	150mØ	40 †△				8.0p☑	PE*	L2b	
32	D2T2218A†	400m	250M§△	2.3m	§	75	40	6.0	800m	10nØ	10Ø	1.0mØ	30 △				8.0p☑	PE*	L2b	
33	D2T2219†	400m	250M§△	2.3m	§	60	30	5.0	800m	10nØ	10Ø	150mØ	100 †△				8.0p☑	PE*	L2b	
34	HEP50-RT	400m♦	250M§		§J	25	15 §	4.0	300m$	100n$	,20		85 †						TO18	A
35#	TM2613	400m	250M§△	1.4m	§A	60	40 §	5.0	600m	.05uØ	10Ø	150mØ	40 †△				8p☑	PE	TO18	
36#	TM2711	400m	250M§△	1.4m	§A	60	30 §	5.0	600m	.05uØ	10Ø	150mØ	100 †△				8p☑	PE	TO18	
37	UPI4046-46	400m	250M	4.5m	#J	60	35	6.0	500m	1.7uØ	1.0	100mØ	150 †				12p		TO41	AØ
38	UPI4047-46	400m	250M	4.5m	#J	70	40	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †				10p		TO46	AØ
39#	BSY17†	400m	280M§△	2.0m	§J	20	12	5.0	200m	1.0u	.35Ø	10mØ	60 †☑				2.7p	PE	TO18	A
40#	BSY18†	400m	280M§△	2.0m	§J	20	12	5.0	200m	1.0u	.35Ø	10mØ	120 †☑				2.7p	PE	TO18	A
41#	BSY63†	400m	300M§△	2.0m	§J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	120 †☑				2.7p	PE	TO18	A
42	D2T2219A†	400m	300M§△	2.3m	§	75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 △				8.0p☑	PE*	L2b	
43#	2C444*	400m	350M§	2.6m	§J	50	35	4.0		25nØ	5.0Ø	5.0mØ	80	30u	1.0k		3.0p	DPLØ	L2b	
44	2N3647†	400m	350M§△	2.2m	§S	40	10	6.0	500m	25nØ	1.0Ø	1.0mØ	20 △	100u☑	4.5k☑	25 ☑	4.0p☑		TO46	aØ
45	2N6000†	400m	350M§△	4.0m	♦J	35	25	5.0	500m	10nØ	10Ø	1.0m	70 △	80u☑	10k☑		6.0p$☑	Ø	X55a	A
46	2N6004†	400m	350M§△	4.0m	♦J	50	40	5.0	500m	10nØ	10Ø	1.0m	70 △	80u☑	10k☑		6.0p$☑	Ø	X55a	A
47#	BFR11†	400m	350M§		§J						10Ø	150mØ	40 †△				5.0p	PE	TO18	A
48#	BFV92†	400m	350M§△	2.6m	§J	40	15	5.0	200m	.50u§	1.0Ø	30mØ	30 †△*				5p☑	PE	L56f	
49#	BFV92N†	400m	350M§△	2.6m	§J	40	15	5.0	200m	.50u§	1.0Ø	30mØ	30 †△*				5p☑	PE	L56g	
50	2N706B46	400m	400M§△	3.3m	§J	25	20 §	5.0		10u	1.0Ø	10mØ	40 †				4.5p	PE	TO46	
51#	BSY48†	400m	400M§	2.0m	§J	50	25	5.0	600m	120n	1.0Ø	100mØ	42 †				4.5p	PE	TO18	A
52#	BSY49†	400m	400M§	2.0m	§J	60	40	5.0	600m	70nØ	1.0Ø	100mØ	42 †				4.5p	PE	TO18	A
53	2N834/46†	400m	450M§	2.5m	§J	40	30	5.0	200m	500nØ	1.0Ø	10 Ø	40 †				2.8p	ME	TO46	
54	2N835/46†	400m	450M§	2.5m	§J	25	20	3.0	200m	500nØ	1.0Ø	10 Ø	40 †				2.8p	ME	TO46	
55	2N3648†	400m	450M§△	2.2m	§S	40	15	6.0	500m	25nØ	1.0Ø	1.0mØ	20 △	100u☑	4.5k☑	25 ☑	4.0p☑		TO46	AØ
56	2N6002†	400m	450M§△	4.0m	♦J	35	25	5.0	500m	10nØ	10Ø	1.0m	175 △	100u☑	15k☑		6.0p$☑	Ø	X55a	A
57	2N6006†	400m	450M§△	4.0m	♦J	50	40	5.0	500m	10nØ	10Ø	1.0m	175 △	100u☑	15k☑		6.0p$☑	Ø	X55a	A
58	2N3508†	400m	500M§△	2.3m	§S	40	20	6.0	200m	.20uØ	1.0Ø	10mØ	40 †△				4pØ		TO46	AØ
59	2N3509†	400m	500M§△	2.3m	§S	40	20	6.0	200m	.20uØ	1.0Ø	10mØ	100 †△				4pØ		TO46	AØ
60	TIS86	400m	500M§△	3.2m	§J	30	30	4.0	50m	.10uØ	10Ø	4.0mØ	40 †△					PE†	X55	C
61	TIS87	400m	500M§△	3.2m	§J	45	45	4.0	50m	.10uØ	12Ø	12mØ	30 †△					PE†	X55	C
62	2N2369/46	400m	600M△	2.3m	§J	40	15	4.5	500m	400nØ	1.0Ø	10m	40 †				4.0p	PE	TO46	
63#	BFV97	400m	600M§△	2.6m	§J	30	15	3.0	50m	.05uØ	1.0Ø	3.0mØ	20 †△				1.7pØ	PEØ	L56f	
64#	BFV97N	400m	600M§△	2.6m	§J	30	15	3.0	50m	.05uØ	1.0Ø	3.0mØ	20 †△				1.7pØ	PEØ	L56g	
65	TIS105	400m	600M§	3.2m	§S	45	45	4.0	50m	50nØ	15Ø	10mØ	30 †△#				700f$	PE†Ø	X55	C
66	TIS126	400m	600M§△	3.2m	§	45	40	4.0	50m	50nØ	15Ø	10mØ	25 †△				360f$☑	Ø†	X55	C
67	UCX2910*	400m	600M§△		§S	30	15	4.0		.1pØ	1.0Ø	3.0mØ	40 †△				pØ	PLAØ	L2d	
68	2N917/46	400m	800M△	2.2m	§J	30	15	3.0		1.0nØ	1.0Ø	3.0mØ	20 †△				1.7pØ	PLA△	TO46	
69	2N709A46†	400m	1.0G§	2.3m	§J	15	6.0	4.0		5.0nØ	.50Ø	10mØ	60 †				3.0pØ	PE	TO46	
70	2N2784/46†	400m	1.0G§	2.3m	§J	15	6.0	4.0		5nØ	.50Ø	10mØ	120 †☑				3pØ	PE	TO46	
71	JAN2N3959	400m	1.0G§△	2.2m	§J	20	12	4.5		1.0u#	1.0Ø	10mØ	60 †△				2.5pØ		TO18	AØ
72	K2607	400m	1.0G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
73	K2608	400m	1.0G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
74	K2609	400m	1.0G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
75	2N709/46†	400m	1.2G	2.2m	§J	15	6.0	4.0		50nØ	.50Ø	10mØ	55 †				3.0pØ		TO46	
76	2N3959†	400m	1.3G§△	2.3m	§S	20	12	4.5	30m	5n#Ø	1.0Ø	10mØ	400 †☑				2.5pØ	△	TO18	AØ
77	JAN2N3960	400m	1.3G§△	2.2m	§J	20	12	4.5		1.0u#	1.0Ø	10mØ	60 †△				2.5pØ		TO18	AØ
78	K2502	400m	1.3G§	2.0m	§J	25	10	2.0		.10uØ	10Ø	8.0mØ	20 △				2pØ		TO46	A
79	K2507	400m	1.3G§	2.0m	§J	30	10	2.0		.10uØ	10Ø	8.0mØ	20 △				2pØ		TO46	A
80	K2607A	400m	1.4G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
81	K2608A	400m	1.4G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
82	K2609A	400m	1.4G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
83	2N3960†	400m	1.6G§△	2.3m	§S	20	12	4.5	30m	5n#	1.0Ø	10mØ	400 †☑				2.5pØ	△	TO18	AØ
84	K2607B	400m	1.7G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
85	K2608B	400m	1.7G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
86	K2609B	400m	1.7G§	2.3m	§J	20	10	2.0		100nØ	1.0Ø	3.0mØ	20 △				2.0pØ		TO46	A
87▼	HP35824A	400m	4.0GØ	2.7mØ	§J	25	20	3.0	35m	20uØ	15Ø	150uΔ	25				400f$		TO72	G
88#	2SC1574	400m	4.5G§		§J	20	20	2.0	30m	100nØ	10Ø	5.0mØ	70 †				1.3pØ	EP	TO39	
89	AT1425	400m	5.0G§	2.2m	§J	20	12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f$☑	PEØ	u77b	Y
90	AT2625	400m	5.0G§	2.2m	§J	20	12	3.0	50m	20nØ	10Ø	15mØ	75 †				500f$☑	PEØ	u104a	S
91	AT1445	400m	5.5G§	2.2m	§J	20	12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f$☑	PEØ	u77b	Y
92	AT1445A	400m	5.5G§	2.2m	§J	20	12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f$☑	PEØ	u77b	Y
93♦	AT2645	400mØ	5.5G§	2.2m	§J	20	12	3.0	50m	20nØ	10Ø	15mØ	75 †				500f$☑	PEØ	u137	C
94▼	AT2645A	400mØ	5.5G§	2.2m	§J	20	12	3.0	50m	20nØ	10Ø	15mØ	75 †				500f$☑	PEØ	u137	C
95#	2SC1559	400m	7.0G§		§J	15	8.0	3.0	80m	100nØ	3.0Ø	50mØ	75 †				1.5pØ	EP	X141	C
96▼	HP35825E	400m	8.0GØ	6.7mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 ☑				400f		u77g	AD
97	PE5025	425m	300M§△	5.0m	§J	30	30	3.0	100m#	50nØ	10Ø	10mØ	20 †△				1.1pt☑			
98	PE3100	425m	500M§△	5.0m	§J	30	30	3.0	100m#	100nØ	10Ø	5.0mØ	30 †△				800f$☑	DPE		
99	PE5029	425m	500M§△	5.0m	§J	35	30	3.0	100m#	200nØ	10Ø	5.0mØ	30 †△				400f$☑			
100	PE5030B	425m	600M§△	5.0m	§J	45	40	4.5	100m#	100nØ	15Ø	7.0mØ	45 †△				400f$☑			
101	PE5031	425m	600M§△	5.0m	§J	40	30	4.0	100m#	100nØ	10Ø	5.0mØ	30 †△				400f$☑			
102#	2C425*	430m	70M§	2.9m	§J	75		7.0		.02uØ	10Ø	50mØ	100 †				13p	DPLØ	L2b	
103#	BSX75†	430m	100M§△	3.3m	§J	40	25	5.0	1.0	10u	10Ø	150mØ	40 †△#				8.0p	PE△	TO18	AØ
104	2N2395	450m	40M§△	2.6m	§J	60	40	5.0	300m	.01uØ	10Ø	150mØ	20 †#△				30p☑	PL	u25	
105	2N2396	450m	50M§△	2.6m	§J	60	40	5.0	300m	.01uØ	10Ø	150mØ	40 †#△				30p☑	PL	u25	
106	2N2389†	450m	60M§△	2.5m	§J	75	50 §	7.0	500m	10nØ	10Ø	5.0mØ	35 △	1.0u☑b	8.0 ☑	3.0 ☑	25p☑	PLØ	u25	
107	2N2390	450m	70M§△	2.5m	§J	75	50 §	7.0	500m	10nØ	10Ø	5.0mØ	70 △	1.0u☑b	8.0 ☑	5.0 ☑	25p☑	PLØ	u25	
108	2N3728*	450m	80M§△	2.6m	§J	60	30	5.0		.01uØ	10Ø	1.0mØ	50 △	20u☑	6k☑	3 ☑	8p☑	Ø*	L2t	
109	2N3729*	450m	80M§△	2.6m	§J	60	30	5.0		.01uØ	10Ø	1.0mØ	50 △		6k☑	3 ☑	8p☑	Ø*	L2t	
110#	BCW73-16†	450m	100M§△	2.6m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	250 †☑				12p$☑	PE	TO18	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1#	BCW73-25†	450m	100M§Δ	2.6m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	400 †☑				12p$☑	PE	TO18		A
2#	BCW73-40†	450m	100M§Δ	2.6m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	630 †☑				12p$☑	PE	TO18		A
3#	BCW74-16†	450m	100M§Δ	2.6m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	250 †☑				12p$☑	PE	TO18		A
4#	BCW74-25†	450m	100M§Δ	2.6m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	400 †☑				12p$☑	PE	TO18		A
5#	BCW74-40†	450m	100M§Δ	2.6m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	630 †☑				12p$☑	PE	TO18		A
6#	BCX58IX†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	10uØ	220 †	30u	4.5k	2.0	4.5p$☑	PEØ	X64d		A
7#	BCX58VII†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	.10uØ	78 †	18u	2.7k	1.5	4.5p$☑	PEØ	X64d		A
8#	BCX58VIII†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	10uØ	145 †	24u	3.6k	2.0	4.5p$☑	PEØ	X64d		A
9#	BCX58X†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	10uØ	300 †	50u	7.5k	3.0	4.5p$☑	PEØ	X64d		A
10#	BCX59IX†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	220 †	30u	4.5k	2.0	4.5p$☑	PEØ	X64d		A
11#	BCX59VII†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	78 †	18u	2.7k	1.5	4.5p$☑	PEØ	X64d		A
12#	BCX59VIII†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	145 †	24u	3.6k	2.0	4.5p$☑	PEØ	X64d		A
13#	BCX59X†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	300 †	50u	7.5k	3.0	4.5p$☑	PEØ	X64d		A
14#	BFW42	450m	750M§	3.6m	§S	40	20	4.0	100m	100u	5.0Ø	50mØ	75				3.5p☑	PE	TO5		AØ
15#	BLX88	450m	800M	2.5m	§S	50	30	4.0	100m	50nØ	5.0	50	80				2.5p☑	PE	TO5		A
16	KD5525	450mØ	2.0G§Δ	2.6m	§J	20	12	2.5	50m	.05uØ	1.0Ø	3.0mØ	20 †Δ				.75p☑	PEØ	X72		V
17	KD5526	450mØ	2.0G§Δ	2.6m	§J	20	12	2.5	30m	.05uØ	1.0Ø	3.0mØ	20 †Δ				.75p☑	PEØ	X72		V
18	KD5520	450m	2.5G§	2.6m	§J	30		2.0		300nØ	10Ø	8.0m	20				700f☑		X72		U
19	KD5521	450m	2.5G§	2.6m	§J	30		2.0		300nØ	10Ø	8.0m	20				700f☑		X72		U
20	KD5522	450m	2.5G§	2.6m	§J	25	12	2.0	40m	500nØ	10Ø	8.0m	20				700f☑	PE	X72		u
21	KD5523	450m	2.5G§	2.6m	§J	25	12	2.0	40m	500nØ	10Ø	8.0m	20				700f☑	PE	X72		U
22#	2SC1056	475m	150M§		♦J	260	260	5.0	100m	1.0uØ	10Ø	10mØ	20 †Δ				10p☑	ME	TO5		
23	JAN2N560†	500m		2.7m	§J	60	60 Ø	8.0	100m	50nØ	5.0Ø	100mØ	20 †Δ				8.0p☑		TO5		AØ
24	2N734	500m		3.3m	§S	80	60	5.0	50m	1.0uØ	5.0Ø	5.0m	20 Δ		1.2k		10p☑		TO18		AØ
25	2N735	500m		3.3m	§S	80	60	5.0	50m	1.0uØ	5.0Ø	5.0m	40 Δ		1.5k		10p☑		TO18		AØ
26	2N736	500m		3.3m	§S	80	60	5.0	50m	1.0uØ	5.0Ø	5.0m	80 Δ		1.8k		10p☑		TO18		AØ
27	2N738	500m		3.3m	§S	125	80	5.0	50m	1.0uØ	5.0Ø	5.0m	20 Δ		1.2k		10p☑		TO18		AØ
28	2N739	500m		3.3m	§S	125	80	5.0	50m	1.0uØ	5.0Ø	5.0m	40 Δ		1.5k		10p☑		TO18		AØ
29	2N740	500m		3.3m	§S	125	80	5.0	50m	1.0uØ	5.0Ø	5.0m	80 Δ		1.8k		10p☑		TO18		AØ
30	2N742	500m		4.0m	§A	60	60 Ø	8.0	100m	10u	5.0Ø	100mØ	20 Δ				8p☑	MEΔ	TO18		AØ
31	2N742A	500m		4.0m	§A	60	60 Ø	8.0	100m	10u	5.0Ø	100mØ	20 Δ				8p☑	MEΔ	TO18		AØ
32	2N997	500m		3.0m	§S	75	40	7.0	300m	.01uØ	10Ø	10mØ	4.0kt Δ				36p☑		TO18		AØ
33	2N1051	500m		4.0m	§S	60	40	8.0	100m	10nØ	5.0Ø	5.0mØ	30	b	15 ☑		7.0p☑		TO5		AØ
34	2N1491	500m		3.3m	§C	30	30	1.0	100m	100u♦	20Ø	15mØ	50 Δ				5.0p☑		TO39		AØ
35	2N1492	500m		3.3m	§C	60	60	2.0	100m	100u♦	20Ø	15mØ	15 Δ				5.0p☑		TO39		AØ
36	2N1493	500m		3.3m	§C	100	100	4.5	100m	100uØ♦	20Ø	15mØ	15 Δ				5.0p☑		TO39		AØ
37	2N5810	500m		4.5m	†J	35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$☑		X55a		A
38	2N5812	500m		4.5m	†J	35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	150 Δ				15p$☑		X55a		A
39	2N5814	500m		4.5m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$☑		X55a		A
40	2N5816	500m		4.5m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	100 Δ				15p$☑		X55a		A
41	2N5818	500m		4.5m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	150 Δ				15p$☑		X55a		A
42	2N5820	500m		4.5m	†J	70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$☑		X55a		A
43	2N5822	500m		4.5m	†J	70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	100 Δ				15p$☑		X55a		A
44#	2SD261	500m		5.0m	♦J	40	25	5.0	700m	100n	1.0Ø	500mØ	100 †					PE	X67		A
45#	BFX66	500m		3.0m	▼S	75	40	7.0	300m	.01uØ	10Ø	10mØ	4.0kt Δ				36p☑	PLØ	TO18		
46#	BSS23†	500m		2.9m	§J	45	40 *	6.0	1.0	100u	1.0Ø	500mØ	50 †#				10p☑	PEΔ	TO18		AØ
47	JAN2N333A	500m	2.5MΔ	3.3m	§S	45	45	4.0		500nØ	5.0	1.0m	44 ☑	1.2u☑b	80 ☑	10 ☑	15p☑		TO5		A
48	JAN2N335A	500m	2.5MΔ	3.3m	§S	45	45	4.0		500nØ	5.0	1.0m	90 ☑	1.2u☑b	80 ☑	10 ☑	15p☑		TO5		
49	JAN2N336A	500m	2.5MΔ	3.3m	§S	45	45	4.0		500nØ	5.0	1.0m	270 ☑	1.2u☑b	80 ☑	10 ☑	15p☑		TO5		
50	2N1095	500m	3.0M			60					30Ø	20m	36					G			
51	2N1096	500m	3.0M			90					40Ø	15m	35					G			
52	2N1704	500m	5.0M	3.3m	§	45		6.0	50m	.10u	5.0	1.0m	50 †Δ	1.2u	55		15p		TO5		AØ
53#	2SD219†	500m	8.0M	4.0m	§J	40	30	7.0	1.0	1.0uØ	4.0Ø	200mØ	40 †Δ					D	TO5		AØ
54#	2SD220†	500m	8.0M	4.0m	§J	80	50	7.0	1.0	1.0uØ	4.0Ø	200mØ	40 †Δ					D	TO5		AØ
55#	2SD221†	500m	8.0M	4.0m	§J	110	80	7.0	1.0	1.0uØ	4.0Ø	200mØ	40 †Δ					D	TO5		AØ
56	2N332A	500m	10M		§J	45	45	4.0	25m	500nØ	5.0Ø	1.0mØ	16	3.5u	750		7.0p	GDΔ	TO5		A
57	2N333A	500m	11M		§J	45	45	4.0	25m	500nØ	5.0Ø	1.0mØ	27	5.0u	1.3k		7.0p	GDΔ	TO5		A
58	2N334A	500m	12M		§J	45	45	4.0	25m	500nØ	5.0Ø	1.0mØ	36 †	6.0u	1.7k		7.0p	GDΔ	TO5		A
59	2N335A	500m	13M		§J	45	45	4.0	25m	500nØ	5.0Ø	1.0mØ	45 †	7.0u	2.0k		7.0p	GDΔ	TO5		A
60	2N335B	500m	13.M		§J	60	60	4.0	25m	.50uØ	5.0	1.0m	52	7.0u	2.0k	1.5	7.0p		TO5		A
61	2N336A	500m	15M		§J	45	45	4.0	25m	500nØ	5.0Ø	1.0mØ	75 †	8.0u	3.7k		7.0p	GDΔ	TO5		A
62	TN64†	500m	20M§Δ	2.8m	§J	20	20	5.0	800m	100n	5.0Ø	1.0mØ	65 Δ	100nb	26	2.0	8.0p☑	PEØ	TO18		A
63	40080	500m	27.M*	2.9m	§J		30		250m	10u							6p☑	DPL	TO5		AØ
64	2N337A	500m	30.M	3.3m	§J	45	35	2.5	20m	50u	20	1.0mØ	55	13u	2.5k	2.5	2.0p	D	TO5		A
65	2N1140	500m§	35M§Δ	5.0m	§J	40	40	5.0		15u	6.0Ø	1.0mØ	20 Δ				20p☑		R81a		AØ
66	2N719A	500m	40M§Δ	2.8m	§J	120	60	7.0	1.0 #	10nØ	5.0	1.0mØ	15 Δ	500nØb	35 ☑	2.5 ☑	15p☑		TO18		AØ
67	2N730†	500m	40M§Δ	3.3m	§J	60	40 §	5.0	1	1.0u	10Ø	150mØ	40 †#				35p☑	PL	TO18		AØ
68	2N912	500m	40M§Δ	2.8m	§J	100	60	7.0		25nØ	5.0Ø	1.0mØ	18 Δ	25u☑	600 ☑		15p☑		TO18		AØ
69	JAN2N912	500m	40M§Δ		§J	100	60	7.0		15nØ	5.0Ø	5.0 Ø	20 Δ	25u☑	500 ☑	1.5 ☑b	15p☑		TO18		AØ
70	2N338A	500m	45.M	3.3m	§J	45	35	2.5	20m	.50u	20	1.0mØ	99	15u	3.0k	2.6	2.0p	D	TO5		A
71	2N929A	500m	45M§Δ	2.8m	§S	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	60 Δ	1.0u☑b	32 ☑	6.0 ☑	6.0p☑	Ø	TO18		AØ
72	2N930A	500m	45M§Δ	2.8m	§S	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 Δ	1.0u☑b	32 ☑	6.0 ☑	6.0p☑	Ø	TO18		AØ
73	2N930B	500m	45M§Δ	2.8m	§S	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 Δ	1.0u☑b	32 ☑	6.0 ☑	6.0p☑	Ø	TO18		AØ
74	2N560†	500m	50.M	4.0m	§J	60	60 Ø	8.0	100m	.10uØ	5.0Ø	100mØ	20 †Δ				8p☑	D	TO29		AØ
75	2N720A	500m	50M§Δ	10m	§J	120	80	7.0		10nØ	5.0	1.0mØ	30 Δ	500nØb	30 ☑	1.2 ☑	15p☑		TO18		AØ
76	2N731†	500m	50M§Δ	3.3m	§J	60	40 §	5.0	1	1.0u	10Ø	150mØ	80 †#				35p☑	PL	TO18		AØ
77	2N756	500m	50MΔ	2.8m	§A	45	45	6.0	100m	200nØ	5.0	1.0m	12 Δ	1.0u☑b	80 ☑	10 ☑	8.0p☑		TO18		AØ
78	2N756A	500m	50MΔ	2.8m	§A	60	60	6.0	100m	100nØ	5.0	1.0m	12 Δ	1.0u☑b	80 ☑	10	8.0p☑		TO18		AØ
79	2N757	500m	50MΔ	2.8m	§A	45	45	6.0	100m	200nØ	5.0	1.0m	18 Δ	1.0u☑b	80 ☑	10 ☑	8.0p☑		TO18		AØ
80	2N757A	500m	50MΔ	2.8m	§A	60	60	6.0	100m	100nØ	5.0	1.0m	18 Δ	1.0u☑b	80 ☑	10	8.0p☑		TO18		AØ
81	2N758	500m	50MΔ	2.8m	§A	45	45	8.0	100m	200nØ	5.0	1.0m	18 Δ	1.0u☑b	80 ☑	10 ☑	8.0p☑		TO18		AØ
82	2N758A	500m	50MΔ	2.8m	§A	60	60	7.0	100m	100nØ	5.0	1.0m	18 Δ	1.0u☑b	80 ☑	10	8.0p☑		TO18		AØ
83	2N758B	500m	50MΔ	2.8m	§A	60	60	8.0	100m	5.0nØ	5.0Ø	1.0m	18 Δ	1.0u☑b	35 ☑	6.0 ☑	6.0p☑		TO18		AØ
84	2N759	500m	50MΔ	2.8m	§A	45	45	8.0	100m	200nØ	5.0	1.0m	36 Δ	1.0u☑b	80 ☑	10 ☑	8.0p☑		TO18		AØ
85	2N759A	500m	50MΔ	2.8m	§A	60	60	7.0	100m	100nØ	5.0	1.0m	36 Δ	1.0u☑b	80 ☑	10	8.0p☑		TO18		AØ
86	2N759B	500m	50MΔ	2.8m	§A	60	60	8.0	100m	5.0nØ	5.0Ø	1.0m	36 Δ	1.0u☑b	35 ☑	6.0 ☑	6.0p☑		TO18		AØ
87	2N760	500m	50MΔ	2.8m	§A	45	45	8.0	100m	200nØ	5.0	1.0m	76 Δ	1.0u☑b	80 ☑	10 ☑	8.0p☑		TO18		AØ
88	2N760A	500m	50MΔ	2.8m	§A	60	60	7.0	100m	100nØ	5.0	1.0m	36 Δ	1.0u☑b	80 ☑	10	8.0p☑		TO18		AØ
89	2N760B	500m	50MΔ	2.8m	§A	60	60	8.0	100m	5.0nØ	5.0Ø	1.0m	76 Δ	1.0u☑b	35 ☑	6.0 ☑	6.0p☑		TO18		AØ
90	2N761	500m	50MΔ	2.8m	§A	50	30	6.0	100m	200nØ	20	1.0m	19 Δ	1.0u☑b	80 ☑	20 ☑	6.0p☑		TO18		AØ
91	2N762	500m	50MΔ	2.8m	§A	50	30	6.0	100m	200nØ	20	1.0m	39 Δ	1.0u☑b	80 ☑	20 ☑	6.0p☑		TO18		AØ
92	2N870	500m	50M§Δ	2.8m	§J	100	60	7.0		10nØ	5.0Ø	1.0mØ	30 Δ	500nØb	30 ☑	1.2 ☑	15p☑		TO18		AØ
93	2N911	500m	50M§Δ	2.8m	§J	100	60	7.0		25nØ	5.0Ø	1.0mØ	36 Δ#	50u☑	1.0k		15p☑		TO18		AØ
94	JAN2N911	500m	50M§Δ		§J	100	60	7.0		15nØ	5.0Ø	5.0 Ø	40 Δ	50u☑	1.0k☑	1.7 ☑b	15p☑		TO18		AØ
95	2N981	500m	50M§Δ	2.8m	§A	80	80	8.0	100m	1.0uØ	5.0	1.0m	36 Δ	1.0u☑b	80 ☑	10 ☑	5.0p☑		TO18		AØ
96	2N2223*	500m	50M§Δ	2.8m	§J	100	60	7.0	500m	10nØ	5.0Ø	1.0mØ	40 Δ	500nØb	30 ☑	3.0 ☑	15p☑	*	L2t		
97	2N2223A*	500m	50M§Δ	2.8m	§J	100	60	7.0	500m	10nØ	5.0Ø	1.0mØ	40 Δ	500nØb	30 ☑	3.0 ☑	15p☑	*	L2t		
98	2N2414*	500m	50M§Δ	2.8m	§J	60	28	5.0	500m	25n	10Ø	5.0mØ	50 Δ	1.0u☑b	8.0 ☑	5.0 ☑	25p☑		L2t		
99	2N2427	500m	50.M		§J	40		4.0	50m	.50u	3.0	.01m	20 †						TO18		AØ
100	2N2645	500m	50M§Δ	2.8m	§J	75	50 §	7.0		10nØ	5.0Ø	1.0mØ	75 Δ	500nØb	34 ☑	5.0 ☑	25p☑	Ø	TO18		AØ
101	2N3241	500m	50M§Δ	3.3m	§S	30	25	5.0	100m	100n	12Ø	10mØ	70 Δ	350uØ	1.0k☑		30p☑		R134b		AØ
102	2N3241A	500m	50M§Δ	3.3m	§S	30	25	7.5	200m	100nØ♦	12Ø	10mØ	100 Δ	350uØ	1.0k☑		20p☑		R123		AØ
103	2N3242	500m	50M§Δ	3.3m	§S	30	25	5.0	200m	10n	12Ø	10mØ	100 Δ	350uØ	1.5k☑		30p☑	Ø	R134b		AØ
104	2N3242A	500m	50M§Δ	3.3m	§S	40	40	8.0	300m	10nØ♦	12Ø	10mØ	125 Δ	350uØ	1.5k☑		20p☑	Ø	R123		AØ
105	2N4068	500m	50M§Δ	3.3m	§S	150	150	5.0	200m	.05uØ	10Ø	30mØ	30 †Δ				3.5p$☑		TO104		AØ
106#	2SC1472K	500m	50M§Δ		♦	40	30	10	300m	100nØ	5.0Ø	10mØ	2.0k†				10p☑	PE†			
107	40397	500m	50.M§	3.3m	§J		25	7.5	200m	.10u	12Ø	10mØ	375	120u	1.2k	2.5	12p	PE	R123		
108	40398	500m	50.M§	3.3m	§J		25	7.5	200m	.10u	12Ø	10mØ	200	75u	600	1.2	12p	PE	R123		
109	40399	500m	50.M§	3.3m	§J		18	7.0	200m	.50uØ	12Ø	10mØ	375	120u	1.2k	2.5	12p	PE	R123		
110	40400	500m	50.M§	3.3m	§J		18	7.0	200m	.50uØ	12Ø	10mØ	200	75u	600	1.2	12p	PE	R123		

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1#	BCW25*	500m	50M	2.8m	§S		60	50	5.0	500m	100nØ	5.0Ø	100uØ	25 †Δ#				15pØ	PL	L2	
2#	BCW26	500m	50M	2.8m	§S		60	50	5.0	500m	100nØ	5.0Ø	100uØ	25 †Δ#				15pØ	PL*	L2	
3	TN80	500m	50M§Δ	2.6m	§J		30	20	5.0		1.0n	1.0Ø	100uØ	75 †Δ				10pØ	PEØ	TO18	A
4	2N718A	500m	60M§Δ		§J		75	32	7.0		10nØ	5.0	1.0mØ	30 Δ	500nØb	34 Ø	3.0 Ø	25pØ	DΔ	TO18	AØ
5	JAN2N718A	500m	60M§Δ	2.8m	§J		75	30	7.0	500m	10nØ	5.0Ø	1.0mØ	100 Ø	1.0uØb	8.0 Ø	3.0 Ø	25pØ	Δ	TO18	AØ
6	JAN2N720A	500m	60M§Δ	2.8m	§J		120	80	7.0	500m	10nØ	5.0Ø	1.0mØ	100 Ø	500nØb	8.0 Ø	1.5 Ø	15pØ	Δ	TO18	AØ
7	2N735A	500m	60M§Δ	2.8m	§S		80	60	6.0	50m	5.0nØ	5.0Ø	5.0m	40 Δ		1.5kØ		6.0pØ		TO18	AØ
8	2N739A	500m	60M§Δ	2.8m	§S		125	80	8.0	50m	5.0nØ	5.0Ø	5.0m	40 Δ		1.5kØ		6.0pØ		TO18	AØ
9	JAN2N757A	500m	60M§Δ	2.8m	§S		75	60	6.0	100m	10uØ	5.0	1.0m	18 Δ	1.0uØb	80 Ø	10 Ø	6.0pØ		TO18	AØ
10	JAN2N759A	500m	60M§Δ	2.8m	§S		75	60	8.0	100m	10uØ	5.0	1.0m	36 Δ	1.0uØb	80 Ø	10 Ø	6.0pØ		TO18	AØ
11	JAN2N760A	500m	60M§Δ	2.8m	§S		75	60	8.0	100m	10uØ	5.0	1.0m	76 Δ	1.0uØb	80 Ø	10 Ø	6.0pØ		TO18	AØ
12	2N871	500m	60M§Δ	2.8m	§J		100	60	7.0		10nØ	5.0Ø	1.0mØ	50 Δ	300nØb	30 Ø	1.5 Ø	15pØ		TO18	AØ
13	2N910	500m	60M§Δ	2.8m	§J		100	60	7.0		25nØ	5.0Ø	1.0mØ	76 Δ	100uØ	1.8kØ		15pØ		TO18	AØ
14	JAN2N910	500m	60M§Δ		§J		100	60	7.0		15nØ	5.0Ø	5.0 Ø	80 Δ	100uØ	1.6kØ	3.0 Øb	15pØ		TO18	AØ
15	2N2060*	500m	60M§Δ	2.9m	§S		100	60	7.0	500m	2nØ	5.0Ø	1.0m	50 Δ	16uØ	4kØ		15pØ	*Ø	L2t	
16	2N2060A*	500m	60M§Δ	2.8m	§J		100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	50 Δ	16uØ	4.0kØ		15pØ	*	L2t	
17	2N2060B*	500m	60M§Δ	2.9m	§J		100	60	7.0	500m	2nØ	5.0Ø	1.0mØ	50 Δ	16uØ	4kØ	10 Ø	15pØ	Ø*	L2t	
18#	2SC848	500m	60.M§	3.3m	§J		30	20	5.0	200m	.10uØ	4.0Ø	10mØ	160 †					PL	TO18	
19#	2SC849†	500m	60.M§	3.3m	§J		30	20	5.0	300m	.50uØ	4.0Ø	10mØ	160 †					PL	TO18	
20	40231	500m	60M§	3.3m	§J		18	18	5.0	100m	500nØ	10Ø	2.0mØ	80				22p	PLØ	R92	Ø
21	40232	500m	60M§	3.3m	§J		18	18	5.0	100m	500nØ	10Ø	2.0mØ	175				22p	PLØ	R92	Ø
22	40233	500m	60M§	3.3m	§J		18	18	5.0	100m	250nØ	10Ø	2.0mØ	175				22p	PLØ	R92	Ø
23#	BC284	500m	60M§	10m	§		40	40	5.0	200m	50n	10Ø	10mØ	100 †Δ	60u	1.0k	1.5	15p	PL	TO18	A
24#	BC284A	500m	60M§	2.8m	§J		40	40	5.0	200m	50n	10Ø	10mØ	100 †Δ	60m	1.0k	1.5	15p	DPL	TO18	
25#	BC284B	500m	60M§	2.8m	§J		40	40	5.0	200m	50n	10Ø	10mØ	200 †Δ	80m	1.3k	1.8	15p	DPL	TO18	
26▼	UPI718A	500m	60M§Δ		§J		75	32	7.0		10nØ	5.0	1.0mØ	30 Δ	500nØb	34 Ø	3.0 Ø	25pØ		TO106	A
27	2N5183	500m	62M§Ø	3.3m	§S		18	18	7.0	1.0	500nØ	12Ø	10mØ	70 Ø				20p$		TO104	AØ
28	2N707A	500m	70.MΔ	3.3m	§S		70	40	5.0	100m	1.0uØ	1.0Ø	10mØ	9 †#Δ				6pØ		TO18	AØ
29	2N715	500m	70.MΔ	3.3m	§S		50	35	5.0	100m	10u	10Ø	15mØ	10 †#Δ				6pØ		TO18	AØ
30	2N716	500m	70.MΔ	3.3m	§S		70	40	5.0	100m	10u	10Ø	15mØ	10 †#Δ				6pØ		TO18	AØ
31	2N956	500m	70M§Δ	2.8m	§J		75	50 §	7.0		10nØ	5.0Ø	1.0mØ	50 Δ	500nØb	34 Ø	5.0 Ø	25pØ	Ø	TO18	AØ
32	2N2437	500m	70M§Δ	2.8m	§J		100	75	7.0	500m	1.0nØ	10Ø	5.0mØ	20 Δ	1.0uØb	30 Ø	1.8 Ø	15pØ	Ø	TO46	AØ
33#	2SC847	500m	70.M§	3.3m	§J		30	20	5.0	200m	.50uØ	4.0Ø	10mØ	160 †				10p	PL	TO18	
34#	2SC850†	500m	70.M§	3.3m	§J		50	30	7.0	500m	.50uØ	4.0Ø	10mØ	160 †					PL	TO18	
35▼	UPI956	500m	70M§Δ	2.8m	§J		75	50	7.0		10nØ	5.0Ø	1.0mØ	50 Δ	500nØb	34 Ø	5.0 Ø	25pØ		TO106	A
36	JAN2N1051	500m	80M§Δ	4.0m	§S			40	8.0	100m	100nØ	5.0Ø	5.0	30 Δ		15 Øb		7.0pØ		R81a	A
37	2N1893/46	500m	80MΔ	4.5m	§J		120	80	7.0	500m	10nØ	10Ø	150mØ	80 †#	11u	2.8k	3.5	15pØ	PLΔ	TO46	
38	2N2433	500m	80M§Δ	2.8m	§J		75	45	7.0	1.0	1.0nØ	10Ø	5.0mØ	35 Δ	1.0uØb	30 Ø	1.5 Ø	20pØ	Δ	TO46	AØ
39	2N2435	500m	80M§Δ	2.8m	§J		120	80	7.0	500m	1.0nØ	10Ø	5.0mØ	45 Δ	500nØb	30 Ø	1.5 Ø	15pØ	Δ	TO46	AØ
40	2N2438	500m	80M§Δ	2.8m	§J		100	75	7.0	500m	1.0nØ	10Ø	5.0mØ	40 Δ	1.0uØb	30 Ø	1.8 Ø	15pØ	Ø	TO46	AØ
41	2N3701	500m	80M§Δ	2.9m	§S		140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	30 Δ				12pØ	Ø	TO18	AØ
42	40457	500m	80M§Δ	2.9m	§J		25	25	7.0	1.0	500n	1.0Ø	600mØ	60 Δ#				20pØ	PE	TO18	
43	40500	500m	80M§Δ	2.9m	§J		30	30	7.5	200m	100n	10Ø	10mØ	100 Δ				20pØ	PE	TO18	
44	D33D29	500m	80M§Δ	4.0m	§J		70	60	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	TO98	B
45	2N2434	500m	90M§Δ	2.8m	§J		75	45	7.0	1.0	1.0nØ	10Ø	5.0mØ	70 Δ	1.0uØb	30 Ø	2.5 Ø	20pØ	Δ	TO46	AØ
46	2N2436	500m	90M§Δ	2.8m	§J		120	80	7.0	500m	1.0nØ	10Ø	5.0mØ	70 Δ	500nØb	30 Ø	2.5 Ø	15pØ	Δ	TO46	AØ
47	2N2439	500m	90M§Δ	2.8m	§J		100	75	7.0	500m	1.0nØ	10Ø	5.0mØ	80 Δ	1.0uØb	30 Ø	2.5 Ø	15pØ	Ø	TO46	AØ
48#	BFR18	500m	90M§	10m	§		55	85 Ø	7.0		10n	1.0Ø	10mØ	70 †Δ	8.5u	2.2k	2.4	12p	PE	TO18	A
49#	C760	500m	90M§		§J		30	30	5.0		50n	10Ø	10mØ	140 †	50u	550	900m	14p	PL	TO18	A
50#	BSX33†	500m	94M§	2.8m	§J		70	40	7.0		15n§	10Ø	10mØ	70 †#				12p	DPE	TO18	Ø
51	2N736A	500m	100M§Δ	3.3m	§S		80	60	8.0	100m	.50uØ	5.0Ø	1.0m	60 Δ		1.8kØ		6pØ		TO18	AØ
52	2N736B	500m	100M§Δ	2.8m	§S		80	60	8.0	100m	5.0nØ	5.0Ø	1.0m	60 Δ		1.8kØ		6.0pØ		TO18	AØ
53	2N740A	500m	100M§Δ	2.8m	§S		125	80	8.0	50m	5.0nØ	5.0Ø	5.0m	80 Δ		1.8kØ		6.0pØ		TO18	AØ
54	2N1139	500m$	100M§Δ	6.7m	§S		15	15	3.0	100m	5.0u	6.0Ø	10mØ	20 †Δ				12pØ	Δ	TO5	AØ
55	2N2331Ø	500m	100M§Δ	3.3m	§S		30	20	5.0	500m	1.0nØ	1.0Ø	10mØ	50 †Δ				10pØ		TO18	AØ
56	2N2463	500m	100M§Δ	2.8m	▼S		100	60	8.0	50m	2.0nØ	5.0Ø	5.0mØ	40 Δ	30uØ	800 Ø		5.0pØ		TO18	AØ
57	2N2897	500m	100M§Δ	2.8m	§S		60	45	7.0	1.0	50n	5.0Ø	5.0mØ	50 Δ				15pØ		TO18	AØ
58	2N2900	500m	100M§Δ	2.8m	§S		60	45	7.0	1.0	50n	5.0Ø	5.0mØ	50 Δ				15pØ		TO46	AØ
59	2N3700	500m	100M§Δ	2.9m	§S		140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	80 Δ				12pØ	Ø	TO18	AØ
60	JAN2N3700	500m	100M§Δ	2.8m	§J		140	80	7.0	1.0	10nØ	5.0Ø	1.0mØ	80 Δ				12pØ	Ø	TO18	AØ
61	40084	500m	100M§Δ	3.3m	§J		60	40	5.0	1.0	250nØ							15pØ	PL	TO18	A
62#	BC431	500m	100M§	4.0m	§J		70	60	5.0	500m	100mØ	1.0Ø	100mØ	63 Δ				12p	PE	TO12	A
63#	BFX70*	500m	100M§	2.8m	§J		100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	80	9.0u	2.3k		12p	DPL*	L2b	
64#	BFX71*	500m	100M§	2.8m	§J		100	60	7.0	500m	10nØ	5.0Ø	1.0mØ	125	200nb	27	900m	12p	DPL*	L2b	
65#	BFX72*	500m	100M§	2.8m	§J		100	60	7.0	500m	10nØ	5.0Ø	1.0mØ	125	200nb	27	900m	12p	DPL*	L2b	
66#	BFX99*	500m	100M§	2.8m	§J		100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	50 Δ	16 Ø	4.0kØ	10 Ø	12p	Ø	L2b	
67#	BSX70	500m	100M§Δ	2.8m	§J		75	30	7.0	500u	100n	5.0Ø	1.0mØ	40 Δ	500nØ	34 Ø	3.0	25p$Ø	PEΔ	TO18	A
68#	BSX71	500m	100M§Δ	2.8m	§J		75	30	7.0	500u	100n	5.0Ø	1.0mØ	50 Δ	500nØ	34 Ø	5.0	25p$Ø	PEØ	TO18	A
69	D33D21	500m	100M§Δ	4.0m	§J		35	25	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	TO98	B
70	D33D24	500m	100M§Δ	4.5m	†J		50	40	5.0	750m		2.0Ø	2.0mØ	60 Δ†				15p$Ø	PE†	TO98	B
71#	NKT10339	500m	100M§	3.3m	§J		45	30	5.0	500m	.01uØ	10Ø	1.0mØ	50 †				10pØ		TO18	AØ
72#	NKT10439	500m	100M§	3.3m	§J		45	30	5.0	500m	.01uØ	10Ø	1.0mØ	100 †				10pØ		TO18	AØ
73	TN54	500m	100M§Δ	2.8m	§J		75	45	5.0	800m	10nØ	5.0Ø	1.0mØ	55	200nØb	35 Ø	1.2 Ø	8.0pØ	PEΔ	TO18	A
74	TN60†	500m	100M§Δ	2.8m	§J		40	30	5.0	800m	20nØ	5.0Ø	1.0mØ	140	100nb	27	3.2	8.0pØ	PEØ	TO18	A
75	TN62†	500m	100M§Δ	2.8m	§J		40	30	5.0	800m	20nØ	5.0Ø	1.0mØ	50	900nb	26	3.2	8.0pØ	PEØ	TO18	A
76	2N2464	500m	120M§Δ	2.8m	▼S		100	60	8.0	50m	2.0nØ	5.0Ø	5.0mØ	70 Δ	60uØ	1.2kØ		5.0pØ		TO18	AØ
77	2N2895	500m	120M§Δ	2.8m	§S		120	65	7.0	1.0	2.0nØ	5.0Ø	5.0mØ	50 Δ				15pØ	Ø	TO18	AØ
78	2N2896	500m	120M§Δ	2.8m	§S		140	90	7.0	1.0	10nØ	5.0Ø	5.0mØ	50 Δ				15pØ		TO18	AØ
79	2N2898	500m	120M§Δ	2.8m	§S		120	65	7.0	1.0	2.0uØ	5.0Ø	5.0mØ	50 Δ				15pØ	Ø	TO46	AØ
80	2N2899	500m	120M§Δ	2.8m	§S		140	90	7.0	1.0	10nØ	5.0Ø	5.0mØ	50 Δ				15pØ		TO46	AØ
81	2N4384	500m	120M§Ø	2.8m	§S		40	30	5.0	800m	10nØ	5.0Ø	1.0mØ	1.0kØ	200nØb	32 Ø		8.0pØ	Ø	TO18	AØ
82	2N4386	500m	120M§Ø	2.8m	§S		40	30	5.0	800m	10nØ	5.0Ø	1.0mØ	1.0kØ	200nØb	32 Ø		8.0pØ	Ø	TO18	AØ
83	D33D25	500m	120M§Δ	4.5m	†J		50	40	5.0	750m		2.0Ø	2.0mØ	100 Δ†				15p$Ø	PE†	TO98	B
84	D33D30	500m	120M§Δ	4.0m	§J		70	60	5.0	750m	100n§	2.0Ø	2.0mØ	100 †Δ				15p$Ø	PE	TO98	B
85	2N1613/46	500m	130M	4.5m	§J		75	50 §	7.0	500m	10nØ	10Ø	150mØ	80 †#	12u	2.2k	3.6	25pØ	PLΔ	TO46	
86▼#	2SC1209	500m	130M§	5.0m	♦J		25	20	4.0	700m	1.0u	1.0Ø	500mØ	100 †#					PE	TO92	
87▼#	2SC1210	500m	130M§	5.0m	♦J		45	40	4.0	500m	1.0uØ	2.0Ø	150mØ	100 †#					PE	TO92	
88▼#	2SC1211	500m	130M§	5.0m	♦J		65	60	4.0	500m	1.0uØ	2.0Ø	150mØ	100 †#					PE	TO92	
89	D33D22	500m	135M§Δ	4.0m	§J		35	25	5.0	750m	100n§	2.0Ø	2.0mØ	150 †Δ				15p$Ø	PE	TO98	B
90	D33D26	500m	135M§Δ	4.5m	†J		50	40	5.0	750m		2.0Ø	2.0mØ	150 Δ†				15p$Ø	PE†	TO98	B
91	2N2465	500m	140M§Δ	2.8m	▼S		100	60	8.0	50m	2.0nØ	5.0Ø	5.0mØ	115 Δ	90uØ	1.8kØ		5.0pØ		TO18	AØ
92#	2SC27	500m	150M	4.0m	§J		60			100m	1.0uØ	10Ø	10mØ	50				4.0p	ME	TO5	
93#	2SC797	500m	150M§	3.3m	§J		60	35	2.0	500m	5.0uØ	20Ø	15m	30				5.0p	PE	TO5	A
94	D33D27	500m	150M§Δ	4.5m	†J		50	40	5.0	750m		2.0Ø	2.0mØ	250 Δ†				15p$Ø	PE†	TO98	B
95	2N1711/46	500m	160M	4.5m	§J		75	50 §	7.0	500m	10nØ	10Ø	150mØ	130 †	23u	4.4k	7.3	25pØ	PLØΔ	TO46	
96	2N2466	500m	160M§Δ	2.8m	▼S		100	60	8.0	50m	2.0nØ	5.0Ø	5.0mØ	160 Δ	120uØ	2.4kØ		5.0pØ		TO18	AØ
97#	2SC249	500m	170M§	2.0m	§J		70	60 §	5.0	70m	1.0uØ	6.0Ø	2.5m	60				3.2p	PL	TO5	
98#	2SC875	500m	170M§		§J		75	75	4.0	500m	1.0u	6.0Ø	50mØ	100 †				5.0p	PL	TO39	
99#	2SC876	500m	170M§		§J		50	50	4.0	500m	1.0u	6.0Ø	50mØ	100 †				5.0p	PL	TO39	
100	JAN2N1493	500m	175M§Δ	2.8m	§J		100	100 #	4.5		1.0uØ	20Ø	10m	50 †Δ				5.0pØ		R81a	A
101	2N752	500m	200M§Δ	2.9m	§J		85	45	8.0	100m	10uØ	10Ø	1.0mØ	40 Δ				5pØ		TO18	AØ
102	2N1682	500m	200M§Δ	3.0m	§J		25	12	3.0		.50uØ	1.0Ø	10mØ	20 †Δ				6pØ	Δ	TO5	
103♦	2N5793†	500m	200M§Δ	2.9m	§S		75	40	6.0	600m	10nØ	10Ø	1.0mØ	25 †Δ				8.0p$Ø		L2d	
104♦	2N5794†	500m	200M§Δ	2.9m	§S		75	40	6.0	600m	10nØ	10Ø	1.0mØ	50 †Δ				8.0p$Ø		L2d	
105	2N5845†	500m	200M§Δ	4.5m	†S		50	40 *	6.0	600m	500nØ	1.0Ø	10m	50 †Δ				9.0p$Ø		TO92	A
106	40458†	500m	200M§	3.3m	§J		60	40	8.0	1	.01uØ	12Ø	10mØ	175	75m	600	1.2	20p$	DPE	R123	
107	BC337	500m	200M§	4.0m	§J			45	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				5.0p$	PE	TO92	F
108	BC338	500m	200M§	4.0m	§J			25	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				5.0p$	PE	TO92	F
109#	BFS59	500m	200M§	3.3m	§A		60	30	5.0	1.0 #	100nØ	10Ø	10mØ	130	47u	450	1.5	15pØ	PL†	X59	F
110#	BFS60	500m	200M§	3.3m	§A		60	40	5.0	1.0 #	100nØ	10Ø	10mØ	130	47u	450	1.5	15pØ	PL†	X59	F

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	BFS61	500m	200M§	3.3m	§A	80	60	5.0	1.0 #	100nØ	10Ø	10mØ	130	47u	450	1.5	15pØ	PL†	X59 F
2#	BFW32†	500m	200M§	4.0m	§A	50	30 §	5.0	700m	500nØ	10Ø	10mØ	40 △	250uØ	4.0kØ	6.0 Ø	7.0p	PEØ	TO18 AØ
3#	BSW26†	500m	200M§△	2.9m	§J	50	40	4.0	1	1.0uØ	2.0Ø	500mØ	20 †△				10pØ	PE	TO18 AØ
4#	NKT12329	500m	200M§△	3.3m	§J	30	20	4.0	500m	.01uØ	10Ø	.10mØ	40 †				8pØ		TO18 AØ
5#	NKT12429	500m	200M§△	3.3m	§J	30	20	4.0	500m	.01uØ	10Ø	.10mØ	80 †				8pØ		TO18 AØ
6	SK3122-RT	500m	200M§			70	60	6.0	800m				150 †						X55a A
7#	2SC796	500m	230M§	3.3m	§J	40	30	2.0	500m	5.0uØ	20Ø	15m	50				5.0p	PE	TO5 A
8	2N2220	500m	250M§△	3.3m	§J	60	30	5.0	800m	10n	10Ø	1.0mØ	12 †△				8.0pØ		TO18 AØ
9	2N2221	500m	250M§△	3.3m	§J	60	30	5.0	800m	10n	10Ø	1.0mØ	25 †△				8.0pØ		TO18 AØ
10	JAN2N2221†	500m	250M§△	3.3m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	25 △				8.0pØ		TO18 AØ
11	2N2221A†	500m	250M§△	3.3m	§J	75	40	6.0	800m	.01uØ	10Ø	1.0mØ	30 △	15uØ	3.5kØ	5 Ø	8pØ	Ø	TO18 A
12	JAN2N2221A†	500m	250M§△	3.3m	§S	75	50	6.0	800m	10nØ	10Ø	1.0mØ	30 △				8.0pØ		TO18 AØ
13	2N2222	500m	250M§△	3.3m	§J	60	30	5.0	800m	10n	10Ø	1.0mØ	50 †△				8.0pØ		TO18 AØ
14	JAN2N2222†	500m	250M§△	3.3m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 △				8.0pØ		TO18 AØ
15	JAN2N2222A†	500m	250M§△	3.3m	§S	75	50	6.0	800m	10nØ	10Ø	1.0mØ	50 △				8.0pØ		TO18 AØ
16	2N2539†	500m	250M§△	2.9m	§J	60	30	5.0	800m	.25uØ	10Ø	1.0mØ	20 †△				8pØ		TO18 AØ
17	2N2540†	500m	250M§△	2.9m	§J	60	30	5.0	800m	.25uØ	10Ø	1.0mØ	35 †△				8pØ		TO18 AØ
18♦	2N2790†	500m	250M§△	2.8m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	30 △	200uØb	35 Ø	1.5 Ø	8.0pØ		TO18 AØ
19♦	2N2791†	500m	250M§△	2.8m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	75 △	200uØb	35 Ø	2.0 Ø	8.0pØ		TO18 AØ
20♦	2N2792†	500m	250M§△	2.8m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	50 △	200uØb	35 Ø	2.5 Ø	8.0pØ		TO18 AØ
21	2N3409*	500m	250M§△	2.9m	§S	60	30	5.0	500m	.01uØ	10Ø	1.0mØ	40 †△				8pØ	*	L2y
22	2N3410*	500m	250M§△	2.9m	§S	60	30	5.0	500m	.01uØ	10Ø	1.0mØ	40 †△				8pØ	*	L2y
23	2N3411*	500m	250M§△	2.9m	§S	60	30	5.0	500m	.01uØ	10Ø	1.0mØ	40 †△				8pØ	*	L2y
24	2N3737†	500m	250M§△	2.9m	§S	75	50	5.0	1.5	.20u#Ø	1.0Ø	10mØ	35 †△				9pØ		TO46 AØ
25	JAN2N3737†	500m	250M§△	2.8m	§J	75	50 *	5.0	1.5	250mØ	1.0Ø	500mØ	40 †△#				9.0pØ		TO46 AØ
26	2N4961†	500m	250M§△	4.5m	§J	80	80	6.5	1.0	10nØ	10Ø	1.0mØ	60 †△				15p$		TO39 AØ
27	2N4963†	500m	250M§△	2.8m	§J	80	80	6.5	1.0	10nØ	10Ø	1.0mØ	60 †△				15p$		TO18 AØ
28	JAN2N5581†	500m	250M§△	2.2m	§J	75	50	6.0	800m	10nØ	10Ø	1.0 Ø	30 △				8.0pØ		TO46 AØ
29	JAN2N5582†	500m	250M§△	2.2m	§J	75	50	6.0	800m	10nØ	10Ø	1.0 Ø	50 △				8.0pØ		TO46 AØ
30	40577	500m	250M§△	357u	§J		60	4.0	500m	.01uØ	5.0Ø	100mØ	50 †#△		50		6pØ		TO5 AØ
31♦#	BC549C	500m	250M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PEØ	u69 F
32▼#	BC550C	500m	250M§	4.0m	§J	50	45 *	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PEØ	u69 F
33#	BFX94	500m	250M△§	3.3m	§J	60	30	5.0	800m	.01uØ	10Ø	150mØ	40 †△#				8pØ	PE	TO18 AØ
34#	BFX95	500m	250M△§	3.3m	§J	60	30	5.0	800m	.01uØ	10Ø	150mØ	100 †△#				8pØ	PE	TO18 AØ
35#	BSW82	500m	250M§	3.3m	§J	40	25	5.0	500m#	100nØ	10Ø	150mØ	40 †△#				8.0pØ	PE	TO18 AØ
36#	BSW83	500m	250M§	3.3m	§J	40	25	5.0	500m#	100nØ	10Ø	150mØ	100 †△#				8.0pØ	PE	TO18 AØ
37#	BSW84	500m	250M§	3.3m	§J	75	40	5.0	500m#	10nØ	10Ø	150mØ	40 †△#				8.0pØ	PE	TO18 AØ
38#	BSW85	500m	250M§	3.3m	§J	75	40	5.0	500m#	10nØ	10Ø	150mØ	100 †△#				8.0pØ	PE	TO18 AØ
39▼	UPI2222P	500m	250M§△	3.3m	§J	60	30	5.0	800m	10n	10Ø	1.0mØ	50 △†				8.0pØ		TO106 A
40#	ZTX360†	500m	250M§△	3.3m	§A	60	40	5.0	1.0 #	500nØ	1.0Ø	500mØ	25 †△				5.7p	PL	X59 F
41#	2SC30	500m	280M§		§J	60	30	5.0	80m	.10u	10Ø	10m	45				4.0p	PE	TO5
42	2N2222A†	500m	300M§△	3.3m	§J	75	40	6.0	800m	.01uØ	10Ø	1.0mØ	50 △	35uØ	8.0kØ	8 Ø	8pØ	Ø	TO18 AØ
43	2N3736†	500m	300M§△	2.9m	§S	50	30	5.0	1.5	.20u#Ø	1.0Ø	10mØ	35 †△				9pØ		TO46 AØ
44#	2SC238	500m	300M§	4.0m	§J	30		3.5	100m	.10uØ	6.0Ø	1.0m	80				5.0p	PL	TO5
45▼#	BC546	500m	300M§	4.0m	§J	80	65	6.0	100m	15nØ	5.0Ø	2.0mØ	125 △				2.5p$	PE	u135 A
46▼#	BC546A	500m	300M§	4.0m	§J	80	65 *	6.0	100m	15nØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	u69 F
47▼#	BC546B	500m	300M§	4.0m	§J	80	65 *	6.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	u69 F
48▼#	BC546VI	500m	300M§	4.0m	§J	80	65	6.0	100m	15n	5.0Ø	2.0mØ	110 †	18u	2.7k	1.5	2.5p$	PE	TO92 A
49♦#	BC547	500m	300M§	4.0m	§J	50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	125 △				2.5p$	PE	u135 A
50♦#	BC547A	500m	300M§	4.0m	§J	50	45 *	6.0	100m	15nØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	u69 F
51♦#	BC547B	500m	300M§	4.0m	§J	50	45 *	6.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	u69 F
52▼#	BC547C	500m	300M§	4.0m	§J	50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	600	18u	8.7k	3.0	2.5p$	PE†	u135 A
53▼#	BC547VI	500m	300M§	4.0m	§J	50	45	6.0	100m	15u	5.0Ø	2.0mØ	110 †	18u	2.7k	1.5	2.5p$	PE	TO92 A
54♦#	BC548	500m	300M§	4.0m	§J	30	30	5.0	100m	15n	5.0Ø	2.0mØ	125 △				2.5p$	PE	u135 A
55♦#	BC548A	500m	300M§	4.0m	§J	30	30 *	5.0	100m	15mØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	u69 F
56♦#	BC548B	500m	300M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	u69 F
57♦#	BC548C	500m	300M§	4.0m	§J	30	30 *	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE	u69 F
58▼#	BC548VI	500m	300M§	4.0m	§J	30	30	5.0	100m	15n	5.0Ø	2.0mØ	110 †	18u	2.7k	1.5	2.5p$	PE	TO92 A
59♦#	BC549	500m	300M§	4.0m	§J	30	30	5.0	100m	15n	5.0Ø	2.0mØ	240 △				2.5p$	PEØ	u135 A
60♦#	BC549B	500m	300M§	4.0m	§J	30	30	5.0	100m	15n	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PEØ	u135 A
61▼#	BC550	500m	300M§	4.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	240 △				2.5p$	PEØ	u135 A
62▼#	BC550B	500m	300M§	4.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PEØ	u135 A
63	SK3046-RT	500m	300M§			60	30	2.0	250m				50 †					D	TO39 AØ
64	UPI2222B	500m	300M	3.3m	#J	60	40	6.0	800m	14mØ	10Ø	1.0mØ	50	3.5	8.0	8.0	3.0p	Ø	TO18 AØ
65#	2SC285	500m	320M§	4.0m	§J	50			200m	.10uØ	10Ø	10m	60				3.5p	PE	TO5
66#	2SC285A	500m	320M§	4.0m	§J	50			200m	.10uØ	10Ø	10m	60				3.5p	PE	TO5
67	2N6010†	500m	330M§△	4.0m	§J	50	40	5.0	800m	10nØ	10Ø	1.0m	65 △	90uØ	12kØ		10p$Ø	Ø	X55a A
68	2N6014†	500m	330M§△	4.0m	§J	70	60	5.0	800m	10nØ	10Ø	1.0m	65 △	90uØ	12kØ		10p$Ø	Ø	X55a A
69#	2SC52†	500m	350M§	4.0m	§J	40		5.0	100m	30nØ	6.0Ø	1.0mØ	50	100nb	28	1.5	4.0p	PL△	TO5
70	MPSH02	500m	375M§△	4.5m	†J	20	20	3.0		50nØ	10Ø	4.0mØ	20 †△				500f$Ø	ANØ	TO92 C
71#	2N2220A	500m	400M§	3.3m	§J	75	40	6.0		.01uØ	10Ø	150mØ	40 †#				4.0p		TO18 A
72	BF198△	500m	400M§	4.0m	§J	40	30	4.0	25m		10Ø	4.0mØ	66 †				200ft	PEØ	TO92 E
73	2N6012†	500m	420M§△	4.0m	§J	50	40	5.0	800m	10nØ	10Ø	1.0m	155 △	150uØ	20kØ		10p$Ø	Ø	X55a A
74	2N6016†	500m	420M§△	4.0m	§J	70	60	5.0	800m	10nØ	10Ø	1.0m	155 △	150uØ	20kØ		10p$Ø	Ø	X55a A
75	2N5851	500mØ	500M§△	2.9mØ	§S	30	15	4.5	100m	1.0uØ	1.0Ø	10mØ	40 †△				1.5p$Ø	△	TO72 G
76	MD2369*	500m	500M§△	2.8m	§J	40	15	5.0	500m	30nØ	1.0Ø	10mØ	40 †△#				4.0pØ	AN△	L66a
77	MD2369A*	500m	500M§△	2.8m	§J	40	15	5.0	500m	30nØ	1.0Ø	10mØ	40 †△#				4.0pØ	AN△	L66a
78	TIS62A	500m	500M§△	4.0m	$	30	12	3.0	30m	100nØ	10Ø	4.0mØ	20 †△				1.3p$Ø	Ø†	X55 A
79	TIS63A	500m	500M§△	4.0m	$	30	12	3.0	30m	100nØ	10Ø	4.0mØ	30 †△				1.3p$Ø	Ø†	X55 A
80	TIS64A	500m	500M§△	4.0m	$	30	12	3.0	30m	100nØ	10Ø	4.0mØ	50 †△				1.3p$Ø	Ø†	X55 A
81	BF199△	500m	550M§	4.0m	§J	40	25	4.0	25m		10Ø	7.0mØ	116 †				300ft	PL†	TO92 E
82	SE5030B	500m	600M§△	4.5m	†A	45	40 Ø*	4.5		100nØ	15Ø	7.0mØ	80 †				280f$	DPE	TO105 C
83	MPSH24	500m	620M§	4.5m	†J	40	30	4.0	100m	50nØ	10Ø	8.0mØ	30 †△				250f$	E	TO92 C
84	2N5852	500mØ	700M§△	2.9mØ	§S	30	15	4.5	100m	1.0uØ	1.0Ø	10mØ	40 †△				1.5p$Ø	△	TO72 G
85	MPSH34	500m	720M§	4.5m	†J	45	45	4.0	100m	50nØ	15Ø	7.0mØ	40 †△				250f$	E	TO92 C
86#	2SC852	500m	800M§△	3.0m	§J	45	25	3.0	80m	500nØ	6.0Ø	20mØ	100 †				3.5pØ	E	TO33 G
87#	ZTX327	500mØ	800M§	3.3m	§J	55	30	3.5	400m	20u△Ø							1.5pØ	PL	X59 F
88▼	2N6218†	500m	1.0G§△	4.0m	§J	300	300	5.0	50m	500uØ	10Ø	20mØ	20 △				5.0p$Ø		X93b A
89▼	2N6219†	500m	1.0G§△	4.0m	§J	250	250	5.0	50m	1.0uØ	10Ø	20mØ	20 △				5.0p$Ø		X93b A
90▼	2N6220†	500m	1.0G§△	4.0m	§J	200	200	5.0	50m	1.0uØ	10Ø	20mØ	20 △				5.0p$Ø		X93b A
91▼	2N6221†	500m	1.0G§△	4.0m	§J	150	150	5.0	50m	10uØ	10Ø	20mØ	20 △				5.0p$Ø		X93b A
92	A5T3572	500m	1.0G§△	4.0m	$	25	15	3.0	50m	10nØ	6.0Ø	5.0mØ	20 †△				850f$Ø	Ø†	X55 A
93	A5T3571	500m	1.2G§△	4.0m	$	25	15	3.0	50m	10nØ	6.0Ø	5.0mØ	20 †△				850f$Ø	Ø†	X55 A
94	2N5184	500m	3.0G§△	3.3m	§S		120	5.0	50m		10Ø	50mØ	10 †△				3.5p$Ø		TO104 AØ
95#	BCW94	540m		4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	50mØ	100 †△				8.0pØ	PE	X55a A
96#	BCW95	540m		4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	50mØ	100 †△				8.0pØ	PE	X55a A
97	JAN2N2060*	540m	60M§△	3.0m	§A	100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	50 △	16uØ	4.0kØ		15pØ	Ø	L8a
98	BCW94A	540m	80M§	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †△				5.0p	PE△	X55a
99	BCW94B	540m	80M§	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †△				5.0p	PE△	X55a
100	BCW94C	540m	80M§	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	150 †△				5.0p	PE△	X55a
101	BCW94KA	540m	80M§	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †△				5.0p	PE△	X55a
102	BCW94KB	540m	80M§	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †△				5.0p	PE△	X55a
103	BCW94KC	540m	80M§	4.3m	§J	50	40	5.0	400m	30nØ	2.0Ø	2.0mØ	150 †△				5.0p	PE△	X55a
104	BCW95A	540m	80M§	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †△				5.0p	PE△	X55a
105	BCW95B	540m	80M§	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †△				5.0p	PE△	X55a
106	BCW95KA	540m	80M§	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	70 †△				5.0p	PE△	X55a
107	BCW95KB	540m	80M§	4.3m	§J	70	60	5.0	400m	30nØ	2.0Ø	2.0mØ	100 †△				5.0p	PE△	X55a
108	2N6441*	550m	160M§△	3.1m	§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	60				1.5p$Ø	Ø	L2d
109	2N6442*	550m	160M§△	3.1m	§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	120				1.5p$Ø	Ø	L2d
110	2N6443*	550m	160M§△	3.1m	§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	60				1.5p$Ø	Ø	L2d

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	2N6444*	550m	160M§△	3.1m		§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	120				1.5p$Ø	Ø	L2d	
2	2N6445*	550m	160M§△	3.1m		§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	60				1.5p$Ø	Ø	L2d	
3	2N6446*	550m	160M§△	3.1m		§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	120				1.5p$Ø	Ø	L2d	
4	2N6447*	550m	160M§△	3.1m		§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	60				1.5p$Ø	Ø	L2d	
5	2N6448*	550m	160M§△	3.1m		§S	60	45	6.0	10m	5.0nØ	5.0Ø	10mØ	120				1.5p$Ø	Ø	L2d	
6♦	MD708*	550m	300M§△	3.1m		§J	40	15	5.0	200m	15nØ	1.0Ø	500uØ	40 †△#				5.0pØ	AN*	L66c	
7♦	MD708A*	550m	300M§△	3.1m		§J	40	15	5.0	200m	15nØ	1.0Ø	500uØ	40 †△#				5.0pØ	AN*	L66c	
8♦	MD708B*	550m	300M§△	3.1m		§J	40	15	5.0	200m	15nØ	1.0Ø	500uØ	40 †△#				5.0pØ	AN*	L66c	
9▼	MD7003	550m	300M§	3.1m		§J	50	40	5.0	50m	100nØ	10Ø	100uØ	350 †#				3.0p	ANØ	L66c	
10▼	MD7003A*	550m	300M§	3.1m		§J	50	40	5.0	50m	100nØ	10Ø	100uØ	350 †#				3.0p	ANØ	L66c	
11▼	MD7003B*	550m	300M§	3.1m		§J	50	40	5.0	50m	100nØ	10Ø	100uØ	350 †#				3.0p	ANØ	L66c	
12	2N3402	560m		4.4m		§J	25	25	5.0	500m	100nØ	4.5Ø	2.0mØ	75 △						X28	B
13	2N3403	560m		4.4m		§J	25	25	5.0	500m	100nØ	4.5Ø	2.0mØ	180 △						X28	B
14	2N3404	560m		4.4m		§J	50	50	5.0	500m	100nØ	4.5Ø	2.0mØ	75 △						X28	B
15	2N3405	560m		4.4m		§J	50	50	5.0	500m	100nØ	4.5Ø	2.0mØ	100 △						X28	B
16	2N4425	560m		4.5m		§J	40	40	5.0	500m	.10uØ	4.5Ø	2.0mØ	180 △						X28	
17	MD2218*	575m	250M§	3.2m		§J	60	30	5.0	500m	20n#	10Ø	100nØ	50 †#				3.5p	AN△	L17k	
18	MD2218A*	575m	250M§	3.2m		§J	60	30	5.0	500m	15n#	10Ø	100nØ	50 †#				3.5p	AN△	L17k	
19	MD2219*	575m	250M§	3.2m		§J	60	30	5.0	500m	20n#	10Ø	100nØ	45 †#				3.5p	AN△	L17k	
20	MD2219A*	575m	250M§	3.2m		§J	60	30	5.0	500m	15n#	10Ø	100nØ	45 †#				3.5p	AN△	L17k	
21	MD7002	575m	260M§	3.2m		§J	50	40	5.0	30m	100nØ	10Ø	100uØ	130 †#				2.6p	AN*	L17k	
22	MD7002A*	575m	260M§	3.2m		§J	50	40	5.0	30m	100nØ	10Ø	100uØ	130 †#				2.6p	AN	L17k	
23	MD7002B*	575m	260M§	3.2m		§J	50	40	5.0	30m	100nØ	10Ø	100uØ	130 †#				2.6p	AN	L17k	
24♦	MD8001*	575m	260M§	3.2m		§J		40 *		30m	50n	10Ø	1.0mØ	200 †				2.6p	AN*	L66c	
25♦	MD8002*	575m	260M§	3.2m		§J		50 *		30m	50n	10Ø	1.0mØ	200 †				2.6p	AN*	L66c	
26♦	MD8003*	575m	260M§	3.2m		§J		60 *		30m	50n	10Ø	1.0mØ	200 †				2.6p	AN*	L66c	
27	MD7007	575m	600M§	3.2m		§J	50	40	5.0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN*	L17k	
28	MD7007A*	575m	600M§	3.2m		§J	50	40	5.0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN	L17k	
29	MD7007B*	575m	600M§	3.2m		§J	50	40	5.0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN	L17k	
30	2N4270	580mØ		3.3m		§S	200	140	15	30m	1.0uØ	10Ø	10mØ	200 †Ø				5pØ		TO5	A
31#	2SC1560	580m	4.5G§	3.3m		§J	25	12	3.0	70m	1.0u	10	20m	70 †				600f$	E	u88	S
32#	V021	580m	4.5G§	3.3m		§J	25	12	3.0	70m	1.0uØ	10Ø	20mØ	80 †				600f$	E	u88	S
33	2N545	600m$		5.5m		§S	60	60	6.0	800m	15u	6.0Ø	500mØ	15 †△				100pØ		TO5	AØ
34	JAN2N545†	600m$		7.6m		§S	60	60	10	500m	25u	6.0Ø	500mØ	15 †△				100pØ		TO5	AØ
35	2N546†	600m$		5.6m		§S	30	30	6.0	800m	15u	6.0Ø	500mØ	15 †△				100pØ		TO5	AØ
36	2N1564	600m		4.0m		§S	80	60	5.0	50m	1.0uØ	5.0Ø	5.0m	20 △		1.2k		10pØ		TO5	AØ
37	2N1565	600m		4.0m		§S	80	60	5.0	50m	1.0uØ	5.0Ø	5.0m	40 △		1.5k		10pØ		TO5	AØ
38	2N1566	600m		4.0m		§S	80	60	5.0	50m	1.0uØ	5.0Ø	5.0m	80 △		1.8k		10pØ		TO5	AØ
39	2N1572	600m		4.0m		§S	125	80	5.0	50m	1.0uØ	5.0Ø	5.0m	20 △		1.2k		10pØ		TO5	AØ
40	2N1573	600m		4.0m		§S	125	80	5.0	50m	1.0uØ	5.0Ø	5.0m	40 △		1.5k		10pØ		TO5	AØ
41	2N1574	600m		4.0m		§S	125	80	5.0	50m	1.0uØ	5.0Ø	5.0m	80 △		1.8k		10pØ		TO5	AØ
42	2N1990	600m		4.8m		§J	100		3.0	1	10u#	10Ø	30mØ	20 †△#						TO5	AØ
43	2N1990S	600m		4.7m		§S	100		3.0		1.0u#	.50Ø	2.0mØ	25 △					PL	TO5	Ø
44	2N2309	600m		4.0m		§J	30	30	5.0	500m	5.0nØ	4.0Ø	200uØ	40 △				25pØ	Ø	TO5	AØ
45#	2SC1303	600m		4.0m		J§	40	20	4.0	500m#	1.0u	13Ø	100mØ	70 †				10p	PE	TO39	A
46#	SL301C*	600m		4.0m		§A	25	10	4.3	50m		5.0Ø	1.0mØ	20 †△						L44a	
47#	SL301CE*	600m		4.0m		§A	25	10	4.3	50m		5.0Ø	1.0mØ	20 †△						L44b	
48	TI480	600m		6.0m		♦J	50	40		60m	2.0u	10	5.0m	9.0 △	1.0ub	12	2.0		G	TO11	A
49	TI481	600m		6.0m		♦J	80	70		60m	2.0u	10	5.0m	9.0 △	1.0ub	12	2.0		G	TO11	A
50▼	PN2484	600m	60 §△	4.8m		§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	150 △	40uØ	24kØ	8.0 Ø	6.0pØ	PL	TO92	A
51▼	PN2222A	600m	300 §△	4.8m		§J	75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 †△	35uØ	8.0kØ	8.0 Ø	8.0pØ	PL	TO92	A
52▼	PN2369	600m	500	4.8m		§J	40	15	4.5	500m	400nØ	1.0Ø	10mØ	40 †△				4.0pØ	PL	TO92	AΔ
53▼	PN2369A	600m	500 §△	4.8m		§J	40	15	4.5	500m	400nØ	1.0Ø	10mØ	40 †△				4.0pØ	PL	TO92	AΔ
54#	DT1610†	600m	.50M	5.0mØ		♦S	25	15	4.0	250m	8.0u	6.0Ø	200mØ	10 †△						TO5	
55	2N2858†	600m	1.0M§△	5.9m		§J	100	80	10	3		4.0Ø	1 Ø	20 †△					D	TO5	AØ
56	2N2859†	600m	1.0M§△	5.9m		§J	120	100	10	3		4.0Ø	1 Ø	20 †△					D	TO5	AØ
57#	DT1003†	600m	1.0M§	6.2m		♦A	200	200	5.0	300m	50u	6.0Ø	200mØ	36 †Ø					D	TO5	Ø
58	TI496	600m	1.0M	5.9m		♦J	70	65 Ø	1.0	60m	2.0uØ	5.0Ø	3.0mØ	10 †△					G	TO11	A
59	2N1615	600m	2.0M§△	5.6m		§S	100	100	8.0	200m	2.0uØ	10Ø	5.0mØ	25 †△				100pØ		TO5	AØ
60	2N2038	600m$	2.0M§△	5.6m		§S	45	45	4.0	500m	15uØ	6.0Ø	200mØ	12 †△				100pØ		TO5	AØ
61	2N2039	600m$	2.0M§△	5.6m		§S	75	75	4.0	500m	15uØ	6.0Ø	200mØ	12 †△				100pØ		TO5	AØ
62	2N2040	600m$	2.0M§△	5.6m		§S	45	45	4.0	500m	15uØ	6.0Ø	200mØ	30 †△				100pØ		TO5	AØ
63	2N2041	600m$	2.0M§△	5.6m		§S	75	75	4.0	500m	15uØ	6.0Ø	200mØ	30 †△				100pØ		TO5	AØ
64	2N551	600m$	3.0M§△	5.6m		§S	60	60	6.0	200m	15u	6.0Ø	50mØ	20 †△				100pØ		TO5	AØ
65	2N552	600m$	3.0M§△	5.6m		§S	30	30	6.0	200m	15u	6.0Ø	50mØ	20 †△				100pØ		TO5	AØ
66	2N1055	600m$	3.0M§△	5.6m		§S	100	100	6.0	200m	15u	6.0	50mØ	20 †△		500 Ø		100pØ		TO5	AØ
67	2N547	600m$	4.0M§△	5.6m		§S	60	60	6.0	800m	15u	6.0Ø	500mØ	20 †△				100pØ		TO5	AØ
68	2N548	600m$	4.0M§△	5.6m		§S	30	30	6.0	800m	15u	6.0Ø	500mØ	20 †△				100pØ		TO5	AØ
69	2N549	600m$	4.0M§△	5.6m		§S	60	60	6.0	800m	15u	6.0Ø	200mØ	20 †△				100pØ		TO5	AØ
70	2N550	600m$	4.0M§△	5.6m		§S	30	30	6.0	800m	15u	6.0Ø	200mØ	20 †△				100pØ		TO5	AØ
71	2N1052	600m$	4.0M	3.4m		§J	180	180 Ø	6.0		10u	6.0Ø	200mØ	35 †				50p	ME	TO5	AØ
72	2N1053	600m$	4.0M	3.4m		§J	200	200 Ø	6.0		10u	6.0Ø	200mØ	35 †				50p	ME	TO5	AØ
73	2N1054	600m$	4.0M	3.4m		§J	125	115	6.0		5.0u	20	100m	12				50p	D△	TO5	AØ
74	2N1117	600m$	4.0M§△	5.6m		§S	60	60	6.0	800m	15u	6.0Ø	200mØ	40 †△				100pØ		TO5	AØ
75	2N2198	600m	4.0M§△	5.6m		§S	80	80	7.0	200m	15u	5.0Ø	100mØ	35 †△				120pØ		TO5	AØ
76#	N1X	600m	5.0M	4.0m			80	75 §	5.0	50m	1.0u	5.0Ø	2.0mØ	20					ME	TO5	
77	2N1116	600m$	6.0M§△	5.6m		§S	60	60	6.0	800m	15u	6.0	500mØ	40 †△				100pØ		TO5	AØ
78#	2SC65	600m	20M§△	3.4m		§J	130	130 §	3.0	50m	1.5uØ	20Ø	5.0mØ	20				10pØ	ME	TO5	
79▼	PN930△	600m	30M§△	4.8m		§J	45	45	5.0	30m	10n	5.0Ø	1.0mØ	150 △				8.0pØ	PL	TO92	A
80	2N3388†	600m	36M§△	4.0m		§A	125	100	6.0	2.5m	2.0uØ	1.5Ø	2.5mØ	60 †△				35pØ		TO5	AØ
81	2N3389†	600m	36M§△	4.0m		§A	195	160	6.0	7.0m	2.0uØ	1.5Ø	7.0mØ	60 †△				35pØ		TO5	AØ
82	2N1953	600m	40M§△	4.0m		§J	20	20 Ø	3.0	1	.70uØ	2.0	10mØ	15 †△				35pØ		TO5	AØ
83	2N1983	600m	40M§△	4.7m		§J	50	25	5.0	1.0	5.0uØ	5.0Ø	1.0mØ	70 △	1.0uØb	30 Ø	7.0 Ø	45pØ		TO5	AØ
84	2N1984	600m	40M§△	4.7m		§J	50	25	5.0	1.0	5.0uØ	5.0Ø	1.0mØ	35 △	1.0uØb	30 Ø	5.0 Ø	45pØ		TO5	AØ
85	2N1985	600m	40M§△	4.7m		§J	50	25	5.0	1.0	5.0uØ	5.0Ø	1.0mØ	15 △	1.5uØb	30 Ø	5.0 Ø	45pØ		TO5	AØ
86	2N1986	600m	40M§△	5.0m		§J	50	25	5.0		5.0uØ	10Ø	150mØ	60 †#△				35pØ		TO5	AØ
87	2N1987	600m	40M§△	4.8m		§J	50	25	5.0		5.0uØ	10Ø	150mØ	20 †#△				35pØ		TO5	AØ
88	2N1988	600m	40M§△	4.7m		§J	100	45	5.0	1.0	5.0uØ	5.0Ø	1.0mØ	20 △	1.0uØb	30 Ø	1.5 Ø	20pØ		TO5	AØ
89	2N1989	600m	40M§△	4.7m		J	100	45	5.0	1.0	5.0uØ	5.0Ø	1.0mØ	10 △	1.0uØb	30 Ø	1.5 Ø	20pØ		TO5	AØ
90#	2N5073	600m	40M§△	4.0m		§S	180	120	6.0	400m	.01uØ	10Ø	6.0mØ	20 △				25p$		TO5	AØ
91#	BSS33	600m	40M§△	4.0m		§S	200	200	5.0	200m	10nØ	2.0	10m	120 Ø				25pØ	PE	TO5	AØ
92	TI482	600m	40M§△	5.0m		§J	20	20	5.0	500m	2.0u	10Ø	150mØ	20 †△				35pØ	PL	TO5	AØ
93	TI483	600m	40M§△	5.0m		§J	40	20	5.0	500m	2.0u	10Ø	150mØ	20 †△				35pØ	PL	TO5	AØ
94	TI484	600m	40M§△	5.0m		§J	40	20	5.0	500m	2.0uØ	10Ø	150mØ	40 †△				35pØ	PL	TO5	AØ
95	JAN2N696†	600m	50M§△	4.0m		§S	60	40 §	5.0		100u	10Ø	150mØ	20 †△#				25pØ		TO5	AØ
96	2N1409	600m	50M§△	4.0m		§J	30	25 §	4.0		10u	10Ø	150mØ	15 †△				35pØ		TO5	AØ
97	2N1410	600m	50M§△	4.0m		§J	45	30 §	4.0		10u	10Ø	150mØ	30 †△				24pØ		TO5	AØ
98	2N1420	600m	50M§△	4.0m		§J	60	30 §	5.0	1.0	1.0uØ	10Ø	150mØ	100 †△				35pØ		TO5	A
99	2N1507	600m	50M§△	4.0m		§J	60	30 §	5.0	1	1.0u	10Ø	150mØ	150 †#				35pØ	PL	TO5	AØ
100	2N1972	600m	50M§△	4.0m		§J	60	30 §	5.0		1.0uØ	5.0Ø	1.0mØ	40 △	500nØb	35 Ø	8.0 Ø	35pØ		TO5	AØ
101	2N2195	600m	50M§△	3.4m		§J	45	25	5.0	1	.10uØ	10Ø	150mØ	20 †△#				20pØ	△	TO5	AØ
102	2N2195A	600m	50M§△	3.4m		§J	45	25	5.0	1	.10uØ	10Ø	150mØ	20 †#△				20pØ		TO5	AØ
103	2N2195B	600m	50M§△	3.4m		§J	45	25	5.0	1.0	100nØ	10Ø	150mØ	20 †#△				20pØ		TO5	AØ
104	2N2236†	600m	50M§△	5.0m		§S	40	20	6.0	500m	.05uØ	1.0Ø	100mØ	15 †#△				35pØ		TO5	AØ
105	2N2240	600m	50M§△	3.4m		§J	25	20	5.0	500m	25n	5.0Ø	1.0mØ	40 †△				35pØ	△	TO5	AØ
106	2N2241	600m	50M§△	3.4m		§J	25	20	5.0	500m	25n	5.0Ø	1.0mØ	100 †△				35pØ	△	TO5	AØ
107#	2SC482	600m#	50M§△	4.8m		§J	40	32	5.0	600m	1.0uØ	2.0Ø	150mØ	30 †*△				15p	PE	TO39	AØ
108	BFX15*	600m	50M§△	2.9m		§J	80		5.0		.01uØ	5.0Ø	1.0mØ	30 △				15pØ	PL*	L2d	
109	TRS100A	600m	50M§△	4.0m		§J	100	100 §	6.0		3.0uØ	4.0Ø	50mØ	30 †#△				40pØ		TO5	
110	TRS120	600m	50M§△	4.0m		§J	120	120 §	6.0		3.0uØ	4.0Ø	50mØ	30 †#△				40pØ		TO5	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	TRS140	600m	50M§Δ	4.0m	§J	140	140 §	6.0		3.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
2	TRS160	600m	50M§Δ	4.0m	§J	160	160 §	6.0		3.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
3	TRS180	600m	50M§Δ	4.0m	§J	180	180 §	6.0		3.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
4	TRS200	600m	50M§Δ	4.0m	§J	200	200 §	6.0		2.0uØ	4.0Ø	50mØ	20 †#Δ				40pØ		TO5	A
5	TRS225	600m	50M§Δ	4.0m	§J	225	225 §	6.0		3.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
6	TRS250	600m	50M§Δ	4.0m	§J	250	250 §	6.0		2.0uØ	4.0Ø	50mØ	20 †#Δ				40pØ		TO5	A
7	TRS275	600m	50M§Δ	4.0m	§J	275	275 §	6.0		3.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
8	TRS301	600m	50M§Δ	4.0m	§J	300	300 §	6.0		2.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
9	TRS325	600m	50M§Δ	4.0m	§J	325	325 §	6.0		3.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
10	TRS350	600m	50M§Δ	4.0m	§J	350	350 §	6.0		2.0uØ	4.0Ø	50mØ	20 †#Δ				40pØ		TO5	A
11	TRS375	600m	50M§Δ	4.0m	§J	375	375 §	6.0		3.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
12	TRS401	600m	50M§Δ	4.0m	§J	400	400 §	6.0		2.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
13	TRS425	600m	50M§Δ	4.0m	§J	425	425 §	6.0		3.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
14	TRS450	600m	50M§Δ	4.0m	§A	450	450 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO5	A
15	TRS451	600m	50M§Δ	4.0m	§J	450	450 §	6.0		2.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
16	TRS475	600m	50M§Δ	4.0m	§J	475	475 §	6.0		2.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
17	TRS501	600m	50M§Δ	4.0m	§J	500	500 §	6.0		2.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
18	TRS525	600m	50M§Δ	4.0m	§J	525	525 §	6.0		2.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
19	TRS550	600m	50M§Δ	4.0m	§J	550	550 §	6.0		2.0uØ	4.0Ø	50mØ	20 †#Δ				40pØ		TO5	A
20	TRS575	600m	50M§Δ	4.0m	§J	575	575 §	6.0		2.0uØ	4.0Ø	50mØ	22 †#Δ				40pØ		TO5	A
21	TRS601	600m	50M§Δ	4.0m	§J	600	600 §	6.0		2.0uØ	4.0Ø	50mØ	30 †#Δ				40pØ		TO5	A
22	TRS650	600m	50M§Δ	4.0m	§A	650	650 §	6.0		10uØ	5.0Ø	25mØ	25 †#Δ				14p		TO5	A
23	TRS701	600m	50M§Δ	4.0m	§A	700	700 §	6.0		10uØ	5.0Ø	25mØ	25 †#Δ				14p		TO5	A
24	TRS750	600m	50M§Δ	4.0m	§A	750	750 §	6.0		10uØ	5.0Ø	25mØ	25 †#Δ				14p		TO5	AØ
25	TRS801	600m	50M§Δ	4.0m	§A	800	800 §			10uØ	5.0Ø	25mØ	25 †#Δ				14p		TO5	AØ
26	JAN2N697†	600m	60M§Δ	4.0m	§S	60	40 §	5.0		100u	10Ø	150mØ	40 †Δ#				25pØ		TO5	AØ
27♦	2N1941	600m	60MΔ§	4.0m	§J	45	30 §	5.0	1.0	2.0uØ	6.0Ø	1.0m	40 Δ				35pØ		TO5	AØ
28	2N1944	600m	60M§Δ	4.0m	§J	20	20 §	5.0		1.0uØ	2.0Ø	1.0mØ	300 †				20p	ME	TO5	AØ
29	2N1945	600m	60M§Δ	4.0m	§J	30	30 §	8.0		1.0uØ	2.0Ø	1.0mØ	300 †				20p	ME	TO5	AØ
30	2N1946	600m	60M§Δ	4.0m	§J	40	40 §	10		1.0uØ	2.0Ø	1.0mØ	300 †				20p	ME	TO5	AØ
31	2N1947	600m	60M§Δ	4.0m	§J	20	20 §	5.0		1.0uØ	2.0Ø	100mØ	650 †				20p	ME	TO5	AØ
32	2N1948	600m	60M§Δ	4.0m	§J	30	30 §	8.0		1.0uØ	2.0Ø	100mØ	650 †				20p	ME	TO5	AØ
33	2N1949	600m	60M§Δ	4.0m	§J	40	40 §	10		1.0uØ	2.0Ø	100mØ	650 †				20p	ME	TO5	AØ
34	2N1950	600m	60M§Δ	4.0m	§J	20	20 §	5.0		1.0uØ	2.0Ø	100mØ	375 †				20p	ME	TO5	AØ
35	2N1951	600m	60M§Δ	4.0m	§J	30	30 §	8.0		1.0uØ	2.0Ø	100mØ	375 †				20p	ME	TO5	AØ
36	2N1952	600m	60M§Δ	4.0m	§J	40	40 §	10		1.0uØ	2.0Ø	100mØ	375 †				20p	ME	TO5	AØ
37#	N2XA	600m	60.M	4.0m			120 §	5.0	50m	1.0u	3.0Ø	5.0mØ	40					ME	TO5	
38	2N3881	600m	70M§Δ	3.3m	§S	60	35	5.0	1.0	1.0uØ	5.0Ø	200uØ	50 Δ				25pØ		TO5	Ø
39	TRS100	600m	70.M§	4.5m	§J	150	135 §	5.0		1.0u	3.5Ø	60mØ	40 †				15p	MEΔ	TO5	AØ
40	TRS101	600m	70.M§	4.5m	§J	180	115 §	5.0		1.0u	5.0Ø	60mØ	35 †				15p	MEΔ	TO5	AØ
41	2N696	600m	80M§	13m	§J	60	40 §	5.0		1.0u	10	150mØ	40 †#				20p	DMEΔ	TO5	AØ
42	2N1252	600m	80M§	13m	§J	30	20 §	5.0		10uØ	10	150mØ	35 †#				30p	DMEΔ	TO5	AØ
43#	2SC497	600m	80.M§	5.0m	§J	100	80	5.0	800m	1.0uØ	2.0Ø	200mØ	70				30pØ	PL	TO39	G
44#	2SC498	600m	80.M§	5.0m	§J	80	50	5.0	800m	1.0uØ	2.0Ø	200mØ	70				30pØ	PL	TO39	G
45#	2SC1573	600m	80M§	5.5m	†J	250	200	5.0	70m	2.0u	10Ø	5.0mØ	30 †Δ				5.0p	D	u55a	B
46#	BFW29	600m	80.M	4.0m	§J	50	30	6.0	400m	10u	10	150m	70 †	50u	650		25pØ	PE	TO5	
47#	ZT696	600m	80M§	4.0m	§A	60	40 §	5.0	500m	1.0uØ	10Ø	150mØ	40 †				20p	PL	TO5	Ø
48	2N1838†	600m	90M§Δ	4.0m	§J	45	20	5.0	500m	1.5uØ	10Ø	100mØ	40 †Δ				27pØ		TO5	AØ
49	2N1839†	600m	90M§Δ	4.0m	§J	45	20	4.5	500m	1.5uØ	10Ø	100mØ	12 †Δ				27pØ		TO5	AØ
50	2N1840†	600m	90M§Δ	4.0m	§J	25	15	5.0	500m	300uØ	10Ø	150mØ	10 †Δ				27pØ		TO5	AØ
51#	BFX74	600m	90M§	3.4m	§J	50	35	5.0		1.0uØ	10Ø	5.0mØ	60	600nb	6.2	2.0	31p	DPL	TO5	AØ
52#	BSY24†	600m	90M§	5.0m	§A	40	20	6.0	500m	1.0m	9.0Ø	20mØ	30				23p	PEØ	TO5	Ø
53	2N697	600m	100M§	13m	§J	60	40 §	5.0		1.0u	10	150mØ	75 †#				20p	DMEΔ	TO5	AØ
54	2N1566A	600m	100M§Δ	4.0m	§S	80	60	8.0	100m	.50u	5.0Ø	1.0m	60 Δ		1.8kØ		6pØ		TO5	AØ
55	2N1958†	600m	100M§Δ	4.0m	§J	60	40 §	5.0	500m	.50uØ	10Ø	150mØ	20 †Δ				18pØ		TO5	AØ
56	2N1958A†	600m	100M§Δ		§J	60	40 §	5.0	1.0	200nØ	10Ø	150mØ	20 †Δ				14pØ		TO5	AØ
57	2N1959†	600m	100M§Δ	4.0m	§J	60	40 §	5.0	500m	.50uØ	10Ø	150mØ	40 †Δ				14pØ		TO5	AØ
58	2N1959A†	600m	100M§Δ		§J	60	40 §	5.0	1.0	200nØ	10Ø	150mØ	40 †Δ				14pØ		TO5	AØ
59	2N2237†	600m	100M§Δ	5.0m	§S	40	20	6.0	500m	.05uØ	1.0Ø	100mØ	40 †#Δ				35pØ		TO5	AØ
60	2N2380†	600m	100M§Δ	4.0m	§J	80	40	5.0	500m	4.0uØ	5.0Ø	150mØ	20 †#Δ				14pØ		TO5	AØ
61	2N2380A†	600m	100M§Δ	4.0m	§J	80	40	5.0	500m	4.0uØ	5.0Ø	150mØ	20 †#Δ				14pØ		TO5	AØ
62#	2SC481	600m	100M§Δ	4.8m	§J	60	60 §	5.0	1.0	10uØ	2.0Ø	150mØ	35 †				30pØ	PE	TO39	AØ
63#	2SC509	600m	100M§		§	35	30	5.0	500m	100n	2.0Ø	500mØ	100 †				11p	EP		
64♦#	BC337-16	600m	100M§	4.8m	§J		45	5.0	800m	100n§	1.0Ø	100mØ	250 †Ø				12p§	PE†	TO92	F
65♦#	BC337-25	600m	100M§	4.8m	§J		45	5.0	800m	100n§	1.0Ø	100mØ	400 †Ø				12p§	PE†	TO92	F
66♦#	BC337-40	600m	100M§	4.8m	§J		45	5.0	800m	100n§	1.0Ø	100mØ	630 †Ø				12p§	PE†	TO92	F
67♦#	BC338-16	600m	100M§	4.8m	§J		25	5.0	800m	100n§	1.0Ø	100mØ	250 †Ø				12p§	PE†	TO92	F
68♦#	BC338-25	600m	100M§	4.8m	§J		25	5.0	800m	100n§	1.0Ø	100mØ	400 †Ø				12p§	PE†	TO92	F
69♦#	BC338-40	600m	100M§	4.8m	§J		25	5.0	800m	100n§	1.0Ø	100mØ	630 †Ø				12p§	PE†	TO92	F
70#	BFW37	600m	100M§	4.0m	§J	130	130 §	5.0	200m	5nØ	15Ø	6.0mØ	60	50u	600		6.0p	PE	TO5	AØ
71#	ZT697	600m	100M§	4.0m	§A	60	40 §	5.0	500m	1.0uØ	10Ø	150mØ	75 †				20p	PL	TO5	Ø
72	2N1253	600m	110M§	13m	§J	30	20 §	5.0		10uØ	10	150mØ	45 †#				30p	DMEΔ	TO5	AØ
73#	2SC983	600m	120M§		§J	250	150	5.0	50m	100n	5.0Ø	10mØ	80 †				5.5pØ	PL	u83	B
74#	2SC1166	600m	120M§		§J	70	50	5.0	200m	100nØ	1.0Ø	50mØ	100 †				20pØ	PE	u83	B
75#	BFW36	600m	120M	4.0m	§J	180	180 §	6.0	400m	100u	2.0	200m	50 †	40u	500		25pØ	PE	TO5	
76	2N1837†	600m	140M§Δ	4.0m	§J	80	30	8.0	500m	.50uØ	10Ø	150mØ	40 †Δ				18pØ		TO5	AØ
77#	BSY25†	600m	140M§	5.0m	§A	40	20	6.0	500m	1.0m	9.0Ø	20mØ	60				23p	PEØ	TO5	Ø
78	2N2086†	600m	150M§Δ	4.0m	§J	120	80 §	5.0	500m	2.0uØ	1.5Ø	150mØ	20 †Δ				12pØ		TO5	AØ
79	2N2087†	600m	150M§Δ	4.0m	§J	120	80 §	5.0	500m	2.0uØ	1.0Ø	150mØ	40 †Δ				12pØ		TO5	AØ
80	2N2479†	600m	150M§Δ	4.0m	§A	80	40	5.0	500m	4.0uØ	1.5Ø	150mØ	30 †Δ				14pØ	PE	TO5	AØ
81#	2SC188	600m	150M§	4.0m	§J	40	25 §	3.0	500m	1.0uØ	6.0Ø	10m	50				9.0p	PL	TO5	
82#	2SC189†	600m	150M§	4.0m	§J	60	40 §	5.0	500m	1.0uØ	10Ø	150mØ	40 †				9.0p	PL	TO5	
83	2SC247	600m	150M§	4.0m	§J	100		3.0	100m	1.0uØ	6.0Ø	2.0m	60				3.0p	PL	TO5	
84▼	BF233-2Δ	600m	150M§	4.8m	§J	30	30	4.0	50m	100nØ	10Ø	1.0mØ	40 †Δ				1.0p†	PL	TO92	C
85▼	BF233-3Δ	600m	150M§	4.8m	§J	30	30	4.0	50m	100nØ	10Ø	1.0mØ	60 †Δ				1.0p†	PL	TO92	C
86#	2SC500	600m	175M§	6.7m	§J	120	120 §	5.0	20m	1.0uØ	30Ø	3.0m	140				3.5pØ	PL	TO39	
87#	2SC461	600m	180M§		§J	60	50 §	5.0	300m	100nØ	6.0Ø	1.0mØ	50	100nb	28	800m	15p	ME	TO5	
88#	2SC481	600m	180M§	4.9m	§J	120	80 §	5.0	300m	100nØ	6.0Ø	1.0mØ	50	100nb	28	800m	15p	ME	TO5	
89#	2SC190†	600m	180M§	4.0m	§J	60	40 §	5.0	500m	1.0uØ	10Ø	150mØ	75 †				9.0p	PL	TO5	
90	2N2478†	600m	200M§Δ	4.0m	§A	120	40	5.0	500m	2.0uØ	1.5Ø	150mØ	30 †Δ				12pØ	PE	TO5	AØ
91	2N3426†	600m	200M§Δ	3.4m	§J	25	12	4.0	1	100u§	.50Ø	10mØ	20 #†Δ				25pØ		R94	AØ
92#	2SC588	600m	200M§			30	20	5.0	100m	1.0uØ	10Ø	10m	100				5pØ	PE	TO5	
93#	2SC1346	600m	200M§	6.0m	♦J	30	25	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	X113	B
94#	2SC1347	600m	200M§	6.0m	♦J	60	50	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	X113	B
95#	BFY25	600m	200M§Δ	4.5m	§J	60	40	6.0	200m	.01uØ	10Ø	10mØ	30 †#Δ				3.8p	PL	TO5	AØ
96#	BFY45	600m*	200M§	4.5m	§J	170	90	3.0	30m	10uØ	10Ø	10mØ	60 †				3.5p	MEΔ	TO5	
97	HEP53-RT	600m♦	200M§		§J	35	30 §	4.0	600m$	50n$	30		85 †						TO92	A
98	NN7000	600m	200M§Δ	4.8m	§J	50	30	5.0	750m	100nØ	1.0Ø	350mØ	50 †#Δ				12p$Ø	PL†	X55a	A
99	NN7001	600m	200M§Δ	4.8m	§J	50	30	5.0	750m	100nØ	1.0Ø	350mØ	75 †#Δ				12p$Ø	PL†	X55a	A
100	NN7002	600m	200M§Δ	4.8m	§J	50	30	5.0	750m	100nØ	1.0Ø	350mØ	125 †#Δ				12p$Ø	PL†	X55a	A
101	NN7003	600m	200M§Δ	4.8m	§J	60	40	5.0	750m	100nØ	1.0Ø	350mØ	50 †#Δ				12p$Ø	PL†	X55a	A
102	NN7004	600m	200M§Δ	4.8m	§J	60	40	5.0	750m	100nØ	1.0Ø	350mØ	75 †#Δ				12p$Ø	PL†	X55a	A
103	NN7005	600m	200M§Δ	4.8m	§J	60	40	5.0	750m	100nØ	1.0Ø	350mØ	125 †#Δ				12p$Ø	PL†	X55a	A
104#	BFY17†	600m	245M§	4.0m	§J	40	25	3.0	100m	10u	9.0Ø	10mØ	64				3.8p	PLØ	TO5	
105	2N2476†	600m	250M§Δ	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	20 †Δ				10pØ		TO5	AØ
106	2N2477†	600m	250M§Δ	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	40 †Δ				10pØ		TO5	AØ
107	2N2958†	600m	250M§Δ	4.0m	§S	60	20	5.0	600m	25nØ	10Ø	150mØ	40 †Δ				8.0pØ		TO5	AØ
108	2N2959†	600m	250M§Δ	4.0m	§S	60	20	5.0	600m	25nØ	10Ø	150mØ	100 †Δ				8.0pØ		TO5	AØ
109	2N2960†	600m	250M§Δ	4.0m	§J	60	30	5.0	600m	25nØ	10Ø	.10mØ	35 †Δ				8pØ		TO5	AØ
110	2N2961†	600m	250M§Δ	4.0m	§J	60	30	5.0	600m	25nØ	10Ø	500mØ	30 †#Δ				8pØ		TO5	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2N4432	600m	250M§☑	4.0m	§S	50	30	6.0	200m	.01uØ	15	6.0m	115 ☑				10p☑		TO5	AØ
2#	2N4432A	600m	250M§	4.0m	§J	50	30	6.0	200m	10u	15Ø	6.0mØ	160 ☑	70u	3.5k☑		10p☑	PE	TO5	A
3#	2SC87†	600m	250M§	4.0m	§J	30	30 §	3.0	100m	1.0uØ	10Ø	10m	50				4.0p	ME△	TO5	
4#	2SC88†	600m	250M§	4.0m	§J	120	100 §	3.0	100m	1.0uØ	10Ø	10m	50				3.0p	ME△	TO5	
5#	BSW49	600m	250M§△	4.8m	§S	30	25	5.0	500m	20u§	1.1Ø	500mØ	16 †△				10p☑	△	TO39	AØ
6▼	PN2221	600m	250M§△	4.8m	§J	60	30	5.0	800m	10n	10Ø	1.0mØ	25 △				8.0p☑	PL	TO92	A
7▼	PN2221A	600m	250M§△	4.8m	§J	75	40	6.0	800m	10nØ	10Ø	1.0mØ	30 △	15u☑	3.5k☑	5.0 ☑	8.0p☑	PL	TO92	A
8▼	PN2222	600m	250M§△	4.8m	§J	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †△				8.0p☑	PL	TO92	A
9#	TM1613	600m	250M§△	2.2m	§A	60	40 §	5.0	600m	.05uØ	10Ø	150mØ	40 †#△				8p☑	PE	TO5	
10#	TM1711	600m	250M§△	2.2m	§A	60	30 §	5.0	600m	.05uØ	10Ø	150mØ	100 †#△				8p☑	PE	TO5	
11#	ZT2476†	600m	250M§△	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	20 †△				10p	PE	TO5	
12#	ZT2477†	600m	250M§△	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	40 †△				10p	PE	TO5	
13#	2SC53	600m	300M§	4.0m	§J	25	25 §	3.0	100m	.50uØ	6.0Ø	1.0mØ	50				4.0p	PL	TO5	
14#	MA6101	600m	300M§	4.8m	§J	70	50	6.0		50nØ	10Ø	150mØ	40 †△				5.0p	PE	TO5	
15#	MA6102	600m	300M§	48m	§J	60	45	6.0		50nØ	10Ø	150mØ	100 †△#				5.0p	PE	TO5	
16#	SL301A*	600m	400M§△	4.0m	§A	35	16	4.6	50m	1.0nØ	5.0Ø	100uØ	30 †△				2.0p☑		L44a	
17#	SL301AE*	600m	400M§△	4.0m	§A	35	16	4.6	50m	1.0nØ	5.0Ø	100uØ	30 †△				2.0p☑		L44b	
18#	SL301B*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †△				2.0p☑		L44a	
19#	SL301BE*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †△				2.0p☑		L44b	
20#	SL301E*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	20 †△				2.0p☑		L44a	
21#	SL301EE*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	20 †△				2.0p☑		L44b	
22#	SL303AE*	600m	400M§△	4.0m	§A	35	16	4.6	50m	1.0nØ	5.0Ø	100uØ	30 †△				2.0p☑		L43b	
23#	SL303AT*	600m	400M§△	4.0m	§A	35	16	4.6	50m	1.0nØ	5.0Ø	100uØ	30 †△				2.0p☑		L43a	
24#	SL303BE*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †△				2.0p☑		L43b	
25#	SL303BT*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †△				2.0p☑		L43a	
26#	SL354BE*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †△				2.0p☑		L67	
27#	SL354BF*	600m	400M§△	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †△				2.0p☑		L67	
28	2N3303†	600m	450M§△	4.0m	§J	25	12	4.0	1	.30u	.50Ø	300mØ	60 #†				15p☑	PE	R83a	
29#	2SC998	600m	450M§		§J	40	40 §	4.0	400m	2.0uØ	5.0Ø	50mØ	50 †				10p☑	PE	TO39	A
30	2N3137	600m	500M§△	3.4m	§J	40	20	4.0	150m	50nØ	5.0Ø	50mØ	20 †△#				3.5p☑		TO39	AØ
31	2N5236§	600m	500M§△	3.4m	§J	40	20	4.0	150m	1.0u§	5.0Ø	50mØ	30 †#△				3p$☑		TO39	AØ
32#	2SC994	600m	500M§		§J	36	15	3.0	100m	1.0uØ	3.0Ø	100mØ	70 †				38p	PE	TO39	A
33	2N5065†	600m	550M§△	3.4m	§J	25	15	4.0	500m	100u§	.50Ø	300mØ	50 †△				15p$☑	#	R83a	AØ
34▼	PN918	600m	600M§△	4.8m	§J	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	20 †△				1.7p☑	PL	TO92	A
35#	BFY63	600m	750M§	3.4m	§J	30	15	4.0		50nØ	5.0Ø	50mØ	70 †				2.8p	DPE	TO5	Ø
36#	BFW19	600m	800M	3.4m	§J	40	20	4.0	300m	.01uØ	5.0Ø	50mØ	70 †#				3.5p☑	PE	TO5	AØ
37#	2SC823	600m	1.0G§△		§J	30	19 §	3.0	60m	.10uØ	10Ø	15mØ	100 †				1.3p☑	PE	TO33	
38#	2SC1164	600m	1.4G§		§J	40	35	2.0	300m	100n	10Ø	15mØ	15 †△				3.0p☑	EP	R115a	G
39#	2SC1199	600m	1.4G§		§J	50	35		300m	100nØ	10Ø	20mØ	80 †				3.5p☑	PE	TO39	
40#	BCW90	610m		4.9m	§J	50	40	5.0	800m	30nØ	2.0Ø	150mØ	100 †△				12p☑	PE	X55a	A
41#	BCW91	610m		4.9m	§J	70	60	5.0	800m	30nØ	2.0Ø	150mØ	100 †△				12p☑	PE	X55a	A
42	BCW90A	610m	80M§	4.8m	§J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	60 †△				10p	PE△	X55a	
43	BCW90B	610m	80M§	4.8m	§J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	80 †△				10p	PE△	X55a	
44	BCW90C	610m	80M§	4.8m	§J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	120 †△				10p	PE△	X55a	
45	BCW90KA	610m	80M§	4.8m	§J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	60 †△				10p	PE△	X55a	
46	BCW90KB	610m	80M§	4.8m	§J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	80 †△				10p	PE△	X55a	
47	BCW90KC	610m	80M§	4.8m	§J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	120 †△				10p	PE△	X55a	
48	BCW91A	610m	80M§	4.8m	§J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	60 †△				10p	PE△	X55a	
49	BCW91B	610m	80M§	4.8m	§J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	80 †△				10p	PE△	X55a	
50	BCW91KA	610m	80M§	4.8m	§J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	60 †△				10p	PE△	X55a	
51	BCW91KB	610m	80M§	4.8m	§J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	80 †△				10p	PE△	X55a	
52	A5T3391	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 △				10p☑	PE	X55	A
53	A5T3391A	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 △				10p☑	PE	X55	A
54	A5T3392	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 △				10p☑	PE	X55	A
55	A5T5172	625m		5.0m	§S	25	25	5.0	100m	100nØ	10Ø	10mØ	100 †△				10p$☑	PE	X55	A
56▼	A5T6222	625m		5.0m	§S	25	25	5.0	100m	.10uØ	4.5Ø	2.0mØ	250 △				10p☑	PE	TO92	B
57	A7T3391	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 △				10p☑	PE	TO92	B
58	A7T3391A	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 △				10p☑	PE	TO92	B
59	A7T3392	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 △				10p☑	PE	TO92	B
60	A7T5172	625m		5.0m	§S	25	25	5.0	100m	100nØ	10Ø	10mØ	100 †△				10p$☑	PE	TO92	B
61	A8T3391	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 △				10p☑	PE	TO92	A
62	A8T3391A	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 △				10p☑	PE	TO92	A
63	A8T3392	625m		5.0m	§S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 △				10p☑	PE	TO92	A
64	A8T3707	625m		5.0m	§S	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 △					PE	TO92	A
65	A8T3708	625m		5.0m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 △					PE	TO92	A
66	A8T3709	625m		5.0m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 △					PE	TO92	A
67	A8T3710	625m		5.0m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	90 △					PE	TO92	A
68	A8T3711	625m		5.0m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	180 △					PE	TO92	A
69	A8T5172	625m		5.0m	§S	25	25	5.0	100m	10uØ	10Ø	10mØ	100 †△				10p$☑	PE	TO92	A
70#	BC232A	625m		5.0m	§S	40	30	5.0	400m	100nØ	2.0Ø	50mØ	100 †△#					PE†	TO92	B
71#	BC232B	625m		5.0m	§S	40	30	5.0	400m	100nØ	2.0Ø	50mØ	20 †△#					PE†	TO92	B
72	TIS90	625m		5.0m	§S	40	40	5.0	400m	100nØ	2.0Ø	50mØ	100 †△					PE	TO92	B
73	TIS92	625m		5.0m	§J	40	40	5.0	400m	.10uØ	2.0Ø	50mØ	160 †					PE†	X55	A
74	A5T5209	625m	30M§△	5.0m	§S	50	50	4.5	50m	50nØ	5.0Ø	1.0mØ	150 △				4.0p$☑	PE	X55	A
75	A5T5210	625m	30M§△	5.0m	§S	50	50	4.5	50m	50nØ	5.0Ø	1.0mØ	250 △				4.0p$☑	PE	X55	A
76	MPS8000	625m	30M§☑	5.0m	§J		60 Ø	3.0	500m	10u	2.0Ø	100mØ	30 †△					AN	X131	A
77	A5T3565	625m	40M§△	5.0m	§S	30	25	6.0	50m	50nØ	5.0Ø	1.0mØ	120 △				4.0p☑	PE	X55	A
78	MPSD01	625m	40M§△	5.0m	§J	200	200	4.0	100m	100nØ	10Ø	10mØ	25 †△					AN†	TO92	A
79	A5T2192†	625m	50M§△	5.0m	§S	60	40	5.0	1.0	10nØ	10Ø	150mØ	100 †△				20p☑	PE	X55	A
80	A5T2193†	625m	50M§△	5.0m	§S	80	50	8.0	1.0	10nØ	10Ø	150mØ	40 †△				20p☑	PE	X55	A
81	A5T2243	625m	50M§△	5.0m	§S	120	80	7.0	1.0	10nØ	10Ø	150mØ	40 †△				15p☑	PE	X55	A
82	MPSA42	625m	50M§△	5.0m	§J	300	300	8.0	500m	100nØ	10Ø	30mØ	40 †△				3.0p$☑	AN	TO92	A
83	MPSA43	625m	50M§△	5.0m	§J	200	200	6.0	500m	100nØ	10Ø	30mØ	50 †△				4.0p$☑	AN	TO92	A
84	2N4409	625m	60M§△	5.0m	§S	80	50	5.0	250m	10nØ	1.0Ø	10mØ	60 †△				12p$☑		TO92	A
85	2N4410	625m	60M§△	5.0m	§S	120	80	5.0	250m	10nØ	1.0Ø	10mØ	60 †△				12p$☑		TO92	A
86	A5T4409	625m	60M§△	5.0m	§S	80	50	5.0	250m	10nØ	1.0Ø	10mØ	60 †△				12p$☑	PE	X55	A
87	A5T4410	625m	60M§△	5.0m	§S	120	80	5.0	250m	10nØ	1.0Ø	10mØ	60 †△				12p$☑	PE	X55	A
88♦	MPS6560	625m	60M§△	5.0m	§J	25	25 *	5.0	500m	100nØ	1.0Ø	10mØ	35 †△#				30p☑	AN†	TO92	A
89♦	MPS6561	625m	60M§△	5.0m	§J	25	20 *☑	5.0	600m	100nØ	1.0Ø	10mØ	35 †△#				30p☑	AN†	TO92	A
90	TIS100	625m	80M§	5.0m	§S	180	180	5.0	100m	50nØ	10Ø	1.0mØ	40 †				2.8p	PE†	X55	A
91	TIS101	625m	80M§	5.0m	§S	150	150	5.0	100m	50nØ	10Ø	1.0mØ	45 †				2.8p	PE†	X55	A
92#	BF297	625m	95M§	5.0m	§S	160	160	5.0	100m	50nØ	10Ø	5.0mØ	10 †△				2.5p†	PE	X55c	A
93#	BF298	625m	95M§	5.0m	§S	250	250	5.0	100m	50nØ	10Ø	5.0mØ	10 †△				2.5p†	PE	X55c	A
94#	BF299	625m	95M§	5.0m	§S	300	300	5.0	100m	50mØ	10Ø	5.0mØ	10 †△				2.5p†	PE	X55c	A
95	2N5830	625m	100M§△	5.0m	§J	120	100	5.0	600m	50nØ	10Ø	1.0mØ	60 △	40u☑	6.0k☑		4.0p$☑		TO92	A
96	2N5831	625m	100M§△	5.0m	§J	160	140	5.0	600m	50nØ	10Ø	1.0mØ	60 △	40u☑	6.0k☑		4.0p$☑		TO92	A
97	2N5832	625m	100M§△	5.0m	§J	160	140	5.0	600m	50nØ	10Ø	1.0mØ	125 △	40u☑	6.0k☑		4.0p$☑		TO92	A
98	2N5833	625m	100M§△	5.0m	§J	200	180	6.0	600m	10nØ	10Ø	1.0mØ	50 △	40u☑	6.0k☑		4.0p$☑		TO92	A
99	2N5961	625m	100M§△	5.0m	§S	60	60	8.0	50m	2.0nØ	5.0Ø	10mØ	150 △				4.0p$☑	Ø	TO92	A
100	2N5962	625m	100M§△	5.0m	§S	45	45	8.0	50m	2.0nØ	5.0Ø	10mØ	600 △				4.0p$☑	Ø	TO92	A
101	A5T5220	625m	100M§△	5.0m	§S	15	15	3.0	500m	100nØ	10Ø	50mØ	30 △				10p$☑	PE	X55	A
102	A5T5550	625m	100M§△	5.0m	§S	160	140	6.0	600m	100nØ	10Ø	1.0mØ	50 △				6.0p☑	PE	X55	A
103	A5T5551	625m	100M§△	5.0m	§S	180	160	6.0	600m	50nØ	10Ø	1.0mØ	50 △				6.0p☑	PE	X55	A
104	A8T3704	625m	100M§△	5.0m	§S	50	30	5.0	800m	100nØ	2.0Ø	50mØ	100 †△				12p☑	PE	TO92	A
105	A8T3705	625m	100M§△	5.0m	§S	50	30	5.0	800m	100nØ	2.0Ø	50mØ	50 †△				12p☑	PE	TO92	A
106	A8T3706	625m	100M§△	5.0m	§S	40	20	5.0	800m	100nØ	2.0Ø	50mØ	30 †△				12p☑	PE	TO92	A
107#	BCX73-16†	625m	100M§△	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	100 †△				12p$☑	PE†	X64d	A
108#	BCX73-25†	625m	100M§△	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	160 †△				12p$☑	PE†	X64d	A
109#	BCX73-40†	625m	100M§△	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	250 †△				12p$☑	PE†	X64d	A
110#	BCX74-16†	625m	100M§△	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	100 †△				12p$☑	PE†	X64d	A

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1#	BCX74-25†	625m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	160 †Δ				12p$Ø	PE†	X64d	A	
2#	BCX74-40†	625m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	250 †Δ				12p$Ø	PE†	X64d	A	
3	MPS5551M	625m	100M§Δ	8.0m	§J	180	160	6.0	600m	50n	5.0Ø	10mØ	80 †Δ#				6.0pØ	PE	TO92	A	
4♦	MPSA05	625m	100M§Δ	5.0m	§J	60	60 *	4.0	500m	100n	1.0Ø	10mØ	50 †Δ#					ANT	TO92	A	
5♦	MPSA06	625m	100M§Δ	5.0m	§J	80	80 *	4.0	500m	100n	1.0Ø	10mØ	50 †Δ#					ANT	TO92	A	
6	2N5963	625m	150M§Δ	5.0m	§S	30	30	8.0	50m	2.0nØ	5.0Ø	10mØ	1.2kΔ				4.0p$Ø		TO92	A	
7	A5T5219	625m	150M§Δ	5.0m	§S	20	15	3.0	100m	100nØ	10Ø	2.0mØ	35 Δ				4.0p$Ø	PE	X55	A	
8	A5T5223	625m	150M§Δ	5.0m	§S	25	20	3.0	100m	100nØ	10Ø	2.0mØ	50 †Δ				4.0p$Ø	PE	X55	A	
9	A5T5225	625m	150M§Δ	5.0m	§S	25	20	3.0	100m	100nØ	10Ø	2.0mØ	50 Δ				4.0p$Ø	PE	X55	A	
10	TIS94	625m	200M§Δ	5.0m	§S	60	40	6.0	200m	10u	5.0Ø	100uØ	250 Δ				4.0p$Ø	PE	TO92	B	
11	TIS95	625m	200M§Δ	5.0m	§S	80	60	6.0	200m	10u	5.0Ø	1.0mØ	100 Δ				4.0p$Ø	PE	TO92	B	
12	TIS96	625m	200M§Δ	5.0m	§S	80	65	6.0	200m	10u	5.0Ø	10mØ	60 Δ				4.0p$Ø	PE	TO92	B	
13♦	2N5845A†	625m	250M§Δ	5.0	§J	50	40 *	6.0	600m	500nØ	1.0Ø	10mØ	50 †Δ				9.0p$Ø		TO92	A	
14	MPS3725†	625m	300M§Δ	5.0m	§J	70	50	6.0	1.0	500nØ	1.0Ø	10mØ	30 †Δ#				10pØ	ANT	TO92	A	
15▼	2N5772	625m	350M§Δ	5.0m	§J	40	15	5.0	200m	500n§	.40Ø	30mØ	30 †Δ#				5.0p$Ø		TO92	A	
16▼	A6T5222	625m	450M§Δ	5.0m	§S	20	15	2.0	50m	100nØ	10Ø	4.0mØ	20 Δ				1.3p$Ø	PE	X55	A	
17▼	2N5769†	625m	500M§Δ	5.0m	§S	40	40 Ø	4.5	200m	10u	1.0Ø	100mØ	20 †Δ#				4.0p$Ø		TO92	A	
18#	BF523	625m	500M§	5.0m	§S	50	45	4.5	50m	50nØ	10Ø	15mØ	50 †					PE	X55c	C	
19	MPSH20	625m	620M§	5.0m	§J	40	30	4.0	100m	50nØ	10Ø	4.0mØ	25 †Δ				500f$	E†	TO92	C	
20	MPSH17	625m	800M§Δ	5.0m	§J	20	15	3.0		100nØ	10Ø	5.0mØ	30 Δ				300f$	Ø	TO92	C	
21#	2SC216	650m		4.3m	§J	50	50 §	5.0	300m	.10uØ	1.0Ø	50mØ	50 †					PLΔ	TO5		
22#	2SC217	650m		4.3m	§J	25	25 §	5.0	300m	1.0uØ	1.0Ø	50mØ	50 †					PLΔ	TO5		
23#	2SC218	650m		4.3m	§J	80	80 §	5.0	300m	.10uØ	1.0Ø	50mØ	50 †					PLΔ	TO5		
24#	2SC226	650m		4.3m	§J	50	50 §	5.0	700m	.10uØ	1.0Ø	100mØ	50 †					PEΔ	TO5		
25#	2SC227	650m		4.3m	§J	25	25 §	5.0	700m	1.0uØ	1.0Ø	100mØ	50 †					PEΔ	TO5		
26#	2SC228	650m		4.3m	§J	80	80 §	5.0	700m	.10uØ	1.0Ø	100mØ	50 †					PEΔ	TO5		
27#	2SC231	650m		4.3m	§J	50	50 §	5.0	700m	1.0uØ	1.0Ø	150mØ	40 †					EMΔ	TO5		
28#	2SC232	650m		4.3m	§J	25	25 §	5.0	700m	1.0uØ	1.0Ø	150mØ	40 †					EMΔ	TO5		
29#	2SC233	650m		4.3m	§J	80	80 §	5.0	700m	1.0uØ	1.0Ø	150mØ	40 †					EMΔ	TO5		
30#	2SC210	650m	150M§	4.3m	§J	50			500m	.10uØ	10Ø	20m	50				15p	PL	TO5		
31#	2SC211	650m	150M§	4.3m	§J	25			500m	1.0uØ	10Ø	20m	50				15p	PL	TO5		
32#	2SC212	650m	150M§	4.3m	§J	80			500m	.10uØ	10Ø	20m	50				15p	PL	TO5		
33#	2SC220	650m	150M§	4.3m	§J	50			700m	.10uØ	10Ø	20m	50				15p	PE	TO5		
34#	2SC221	650m	150M§	4.3m	§J	25			700m	1.0uØ	10Ø	20m	50				15p	PE	TO5		
35#	2SC222	650m	150M§	4.3m	§J	80			700m	.10uØ	10Ø	20m	50				15p	PE	TO5		
36#	2SC200	650m	350M§	4.3m	§J	40		5.0	300m	.02uØ	6.0Ø	1.0m	60				4.0p	PE	TO5		
37#	2SC201	650m	350M§	4.3m	§J	20		3.0	300m	.10uØ	6.0Ø	1.0m	60				4.0p	PE	TO5		
38#	2SC202	650m	350M§	4.3m	§J	80		5.0	300m	.02uØ	6.0Ø	1.0m	60				4.0p	PE	TO5		
39#	2SC1360	650m	500M§	5.9m	J†	50	45	4.0	100m#	100n	10	10	100 Ø†				900ft	PE	u55a	B	
40#	2SC824	650m	1.0G§Δ	222u	§J	50	25	3.0	120m	.10uØ	10Ø	30mØ	100 †				3pØ	PE	TO33		
41#	BF117	680m	80M§	4.5m	§J	140	140	5.0	100m	10nØ	10Ø	30mØ	25 †Δ				2.0p	PE	TO39	AØ	
42#	BF137	680m	95M§	4.5m	§J	160	160	5.0	100m	10nØ	10Ø	30mØ	25 †Δ				2.0p	PE	TO39	AØ	
43#	BCW94K	700m		5.6m	§J	50	40	5.0	400m	30nØ	2.0Ø	50mØ	100 †Δ				8.0pØ	PE	X28	A	
44#	BCW95K	700m		5.6m	§J	70	60	5.0	400m	30nØ	2.0Ø	50mØ	100 †Δ				8.0pØ	PE	X28	A	
45	HS5810	700m		6.3m	†J	35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	X28	A	
46	HS5812	700m		6.3m	†J	35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	150 †Δ				15p$Ø	PE	X28	A	
47	HS5814	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	X28	A	
48	HS5816	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	100 †Δ				15p$Ø	PE	X28	A	
49	HS5818	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	150 †Δ				15p$Ø	PE	X28	A	
50	HS5820	700m		6.3m	†J	70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	X28	A	
51	HS5822	700m		6.3m	†J	70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	100 †Δ				15p$Ø	PE	X28	A	
52	2N5964	700m	1.0M§Δ	6.3m	†J	160	150	5.0	600m	50nØ	5.0Ø	1.0mØ	50 †Δ	40uØ	6.0kØ		4.0p$Ø		TO105	A	
53	2N5965	700m	1.0M§Δ	6.3m	†J	200	180	5.0	600m	50nØ	5.0Ø	1.0mØ	50 †Δ	40uØ	6.0kØ		4.0p$Ø		TO105	A	
54#	2SC627	700m	20.M§	4.8m	§J	200	200	4.0	100m	5.0uØ	10Ø	50mØ	360 †*	10u	1.0k	.80	6.0p	D	TO5	A	
55#	2SC826	700m	20.M§	4.8m	§J	100	60	6.0	300m	1.0uØ	4.0Ø	50mØ	100 †				10p	D	TO5	A	
56#	2SC827†	700m	20.M§	4.8m	§J	100	60	6.0	500m	1.0uØ	4.0Ø	50mØ	100 †*				10p	D	TO5	A	
57#	2SC1062†	700m	35M§	4.7m	§J	200	200	4.0	100m	2.0uØ	2.0Ø	50mØ	60 †#				5.0p	D	TO39	AØ	
58#	BC144	700m	40M§Δ	4.0m	§J	60	40	5.0		.02uØ	1.0Ø	300mØ	40 †				25pØ	DPE	TO5		
59#	BFY67A	700m*	60M§Δ	4.5m	§J	60	40 §	5.0	1.0	75nØ	10Ø	150mØ	40 Δ†					PL	TO39	AØ	
60#	BFY67C	700m*	60M§Δ	4.5m	§J	50	25	5.0	1.0	20nØ	10Ø	10mØ	30 Δ†					PL	TO39	AØ	
61#	BFY68A	700m*	70M§Δ	4.5m	§J	60	40 §	5.0	1.0	75nØ	10Ø	10mØ	35 Δ†					PL	TO39	AØ	
62#	BFY33	700m*	80.M§	4.5m	§J	50	30 §	7.0	500m	.02uØ	10Ø	5.0mØ	35 Δ				18p	PL	TO5		
63	D33D24J1	700mØ	80M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE†	X28	B	
64	D33D29J1	700m	80M§Δ	5.6m	§J	70	60	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	X28	B	
65#	2SC798	700m	90.M§	4.8m	§J	60	35	4.0	1.5	5.0uØ	20Ø	15m	50				9.0p	DPL	TO5	A	
66#	BFX68	700m	100M§	4.0m	§J	75	50 §	7.0		.01uØ	5.0Ø	1.0mØ	115	23.u	4.4	7.3	18p	DPLØ	TO5	AØ	
67#	BSX72†	700m	100M§Δ	5.4m	§J	40	25	5.0	1.0	10u	10Ø	150mØ	40 †Δ#				8.0p	PEΔ	TO39	AØ	
68#	BSX95†	700m*	100M§Δ	4.5m	§J	75	30	7.0	500m	10nØ	5.0Ø	1.0mØ	40 Δ	500nØb	34 Ø	3.0	25p$	PE	TO39	AØ	
69#	BSX96†	700m*	100M§Δ	4.5m	§J	75	30	7.0	500m	10nØ	5.0Ø	1.0mØ	50 Δ	500nØb	34 Ø	5.0	25p$	PEØ	TO39	AØ	
70	D33D21J1	700m	100M§Δ	5.6m	§J	35	25	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$Ø	PE	X28	B	
71	D33D25J1	700mØ	120M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	100 †Δ				15p$Ø	PE†	X28	B	
72	D33D30J1	700m	120M§Δ	5.6m	§J	70	60	5.0	750m	100n§	2.0Ø	2.0mØ	100 †Δ				15p$Ø	PE	X28	B	
73	D33D22J1	700m	135M§Δ	5.6m	§J	35	25	5.0	750m	100n§	2.0Ø	2.0mØ	150 †Δ				15p$Ø	PE	X28	B	
74	D33D26J1	700mØ	135M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	150 †Δ				15p$Ø	PE†	X28	B	
75	D33D27J1	700mØ	150M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø	2.0mØ	250 †Δ				15p$Ø	PE†	X28	B	
76#	BFY12	700m*	180M§Δ	4.5m	§J	60	40	5.0	500m	.02uØ	10Ø	100mØ	105 †				4.0p	PE	TO5		
77	TIS133†	700m	250M§Δ	5.6m	§S	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	60 †Δ				12pØ	PE	X55	A	
78	TIS134†	700m	250M§Δ	5.6m	§S	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	50 †Δ				12pØ	PE	X55	A	
79	TIS135†	700m	250M§Δ	5.6m	§S	80	50	6.0	500m	1.7uØ	1.0Ø	100mØ	60 †Δ				10pØ	PE	X55	A	
80	TIS136†	700m	250M§Δ	5.6m	§S	80	40	6.0	500m	1.7uØ	1.0Ø	100mØ	50 †Δ				10pØ	PE	X55	A	
81#	BC185	700m	300M§		§	40	40	5.0	500m	20u	10Ø	100mØ	90 †				8.0p	PE	TO5	A	
82#	2SC1165	700m	600M§		§J	40	40 §	4.0	500m	1.0nØ	5.0Ø	100mØ	40 †				10pØ	EM	TO5		
83▼	2N5770	700m	900M§Δ	5.6m	§S	30	15	4.5	50m	10nØ	10Ø	8.0mØ	40 Δ				1.1pØ		TO92	A	
84#	BFW17	700m	1.1G§	4.0m	§J	40	25	2.0	150m	20uØ†	5.0Ø	150mØ	25 †Δ				1.7p†	PE	TO39	AØ	
85#	BFW16	700m	1.2G§	4.0m	§J	40	25	2.0	150m	20uØ†	5.0Ø	50mØ	25 Δ†				1.7p†	PEØ	TO39	AØ	
86#	BFT12	700m	1.9G§	4.0m	§J	25	15	3.5	150m		5.0Ø	50mØ	25 †Δ					PEØ	u123	E	
87▼	HP35821B	700mØ	4.0G§	14mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 Ø				800f		X72b	U	
88▼	HP35821E	700mØ	4.0G§	14mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 Ø				350f$		X72b	V	
89▼	HP35820A	700mØ	4.3G§	14mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 Ø				300f$		u107	T	
90▼	HP35826E	700m	4.5G§	6.7mØ	§J	27	20	1.5	35m	10uØ									u137a	R	
91#	2SC47†	720m	180M§	4.7m	§J	40	25 §	5.0	300m	1.0uØ	6.0Ø	1.0mØ	50	100nb	28	500m	15p	ME	TO5		
92	2N4876	720m	650M§Δ	4.7m	§S	40	30	2.0	200m	500nØ	10Ø	50mØ	200 Ø				3.5p$		TO39	Ø	
93	2N4875	720m	800M§Δ	4.7m	§S	40	25	2.0	200m	500nØ	10Ø	50mØ	200 Ø				3.5p$		TO39	Ø	
94	TIS39	720m	800M§Δ	5.0m	§A	30	20	2.0	200m	500n§Ø	10Ø	50mØ	20 Δ				6.0pØ	PE	TO5	Ø	
95	2N4874	720m	900M§Δ	4.7m	§S	30	20	2.0	200m	500nØ	10Ø	50mØ	200 Ø				3.5p$		TO39	Ø	
96♦	2N243	750m		5.8m	§J	60	60		60m	1.0uØ	10	5.0m	940m	b	12	600m		G	OV1	A	
97♦	2N244	750m		5.8m	§J	60	60		60m	1.0uØ	10	5.0m	970m	b	12	600m		G	OV1	A	
98	2N342B	750m		6.0m	§J	85	85	2.0	60m	1.0uØ	10Ø	5.0m	9.0 Δ	2.0uØb	500 Ø	3.0 Ø	20pØ		TO11	AØ	
99	2N343B	750m		6.0m	§J	65	65	2.0	60m	1.0uØ	10Ø	5.0m	28 Δ	2.0uØb	1.0kØ	3.0 Ø	20pØ		TO11	AØ	
100	40637A	750m		4.2m	§J		36 Ø	3.5	200m	500u§							4.0pØ	PE	TO18	AØ	
101#	DT1621	750m		5.0m	§A	60	40	8.0	1	10u	6.0Ø	250mØ	50 †Δ					D	TO5		
102	2N1154	750mØ	1.0M	5.9m	§	50		1.0	60m	5.0u	10	5.0m	19	2.0uØ	30 Ø	3 Ø		G	OV9		
103	2N1155	750mØ	1.0M	5.9m	§	80		1.0	50m	6.0u	10	5.0m	19	2.0uØ	30 Ø	3 Ø		G	OV9		
104	2N1156	750mØ	1.0M	5.8m	§J	120		1.0	40m	8.0u	10	5.0m	15	1.0ub	12	3.0 Ø		G	OV9		
105	JAN2N341	750m	5.0M§Δ	6.0m	§S	125	100	1.0	60m	50u	10	5.0m	15 Δ	2.0uØb	30 Ø	3.0 Ø	30pØ		TO11	A	
106#	2SC1063†	750m	30M§	6.0m	§J						1.0Ø	65mØ	30 †Δ				100p$	D	TO5	A	
107#	2SC696	750m	35M§Δ	5.0m	§J	100	60	5.0	3.0	3.0uØ	2.0	500m	28 †Δ					PE	TO39	AØ	
108#	2SC696A	750m	35M§Δ	5.0m	§J	130	80	5.0	3.0	3.0uØ	2.0	500m	28 †Δ					PE	TO39	AØ	
109#	BC140-6*	750m	50M§Δ	5.0m	§J	80	40	7.0	1.0	100n§	1.0Ø	1.0	15 †				25pØ	PEΔ	TO39	AØ	
110#	BC140-10*	750m	50M§Δ	5.0m	§J	80	40	7.0	1.0	100n§	1.0Ø	1.0	20 †				25pØ	PEΔ	TO39	AØ	

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	BC140-16*	750m	50M§Δ	5.0m	§J	80	40	7.0	1.0	100n§	1.0Ø	1.0	30 †				25pØ	PEΔ	TO39 AØ
2#	BC141-6*	750m	50M§Δ	5.0m	§J	100	60	7.0	1.0	100n§	1.0Ø	1.0	15 †				25pØ	PEΔ	TO39 AØ
3#	BC141-10*	750m	50M§Δ	5.0m	§J	100	60	7.0	1.0	100n§	1.0Ø	1.0	20 †				25pØ	PEΔ	TO39 AØ
4#	BC141-16*	750m	50M§Δ	5.0m	§J	100	60	7.0	1.0	100n§	1.0Ø	1.0	30 †				25pØ	PEΔ	TO39 AØ
5#	2SC154H	750m	80M§Δ			120	70	5.0	100m	100u	6.0Ø	10mØ	35 †Δ						TO39
6	2N5856	750m	100M§Δ	6.8m	†S	60	60	5.0	1.0	100nØ	10Ø	10mØ	50 †Δ#				15p$Ø		TO105 A
7	2N5858	750m	100M§Δ	6.8m	†S	80	80	5.0	1.0	100nØ	10Ø	10mØ	50 †Δ#				15p$Ø		TO105 A
8#	2SC150	750m	100M			20		5.0	100m	1.0u	6.0	10m	50				7.0p	ME	TO5
9#	2SC154C	750m	120M§			200	200	6.0	100m	100m	10Ø	25mØ	30 †Δ						TO39
10#	ZT68	750m	120M§Δ	4.3m	§J	100	80	5.0	500m	50n	6.0Ø	10mØ	35 †Δ				8.0p	PE	TO5 Ø
11#	2SC805	750m	160M§	5.0m	§J	100	100	5.0	200m	1.0uØ	5.0Ø	3.0mØ	100 †				3pØ	D	TO5
12#	2SC352	750m	170M§		§J	50	30	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				3.0p	PE	TO5
13#	2SC352A	750m	170M§	5.0m	§J	50	30	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				4.5pØ	D	TO5
14#	2SC353A	750m	170M§	5.0m	§J	100	60	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				4.5pØ	D	TO5
15▼#	2SD400	750m	180M§		♦	25	25	5.0	1.0	1.0uØ	2.0	50m	60 †				25p	PE	u55a B
16#	2SC31	750m	200M§		§J	60	25	5.0	200m	.10u	10Ø	10m	35				4.0p	PE	TO5
17#	2SC456	750m	200M§	6.3m	§J	50	50 Ø	1.5	600m#	1.0uØ	6.0Ø	80m	20 †				10p	PE	TO5 AØ
18#	2SC501	750m	200M§	5.0m	§J	60	30	5.0	300m	.10u	10Ø	10m	80				7pØ	PE	TO39
19#	2SC507	750m	200M§		§J	170	120 §	5.0	80m	1.0uØ	5.0Ø	10mØ	70 †				5.0pØ	DPL	TO39 A
20#	2SC589	750m	200M§		§J	165	150	5.0	80m	2.0uØ	20Ø	3.0m	40				4pØ	D	TO5
21#	2SC594	750m	200M§		§J	60	30	5.0	200m	.10uØ	10Ø	10m	60				4.0p	PE	TO5 AØ
22#	2SC708	750m	200M§			60	80	4.0	1		4.0Ø	50mØ	35 †Δ						TO39
23#	2SC708A	750m	200M§			90	50	4.0	1		4.0Ø	50mØ	35 †Δ						TO39
24#	2SC32	750m	250M§		§J	60	25	5.0	200m	.10u	10Ø	10m	60				4.0p	PE	TO5
25#	2SC58A	750m	250M§	6.3m	§J	135	120	5.0	50m		10	10m	65 †				3.0p	ME	TO5
26#	2SC526	750m	250M§	5.0m	§J	165	150	5.0	55m	2.0uØ	20	45m	20 †Δ				3.5p†	EM	TO5 AØ
27#	2SC1217†	750m	250M§	5.0m	§J	150	150	5.0	300m	100nØ	10Ø	50mØ	70 †				6.0pØ	E	TO39 AØ
28#	2SC1218†	750m	300M§Δ	5.0m	§J	80	80	5.0	500m	100nØ	10Ø	50mØ	80 †				6.0pØ	E	TO39 AØ
29#	2SC652	750m	800M§Δ	5.9m	§J	40	20	3.0	300m	.10uØ	10Ø	100mØ	20 †#Δ				2.5p	PE	TO5 A
30#	2SC556	750m	850M§	6.3m	§J	40	20	2.0	400m	25uØ	15Ø	50m	45				3.8pØ	PE	TO39
31#	2SC651	750m	1.1G§		§J	45	22	4.0	300m	100nØ	10Ø	100mØ	80				3.5pØ	PE	TO5
32	KD2541	750mØ	1.2G	4.3m	§J	25	12	2.0	40m	.15uØ	10	8.0mØ	20 †Δ				1pØ		X72 U
33	KD2540	750mØ	1.5G	4.3m	§J	25	12	2.0	40m	.15uØ	10	8.0mØ	20 †Δ				1pØ		X72 U
34#	BSW39-6†	790m	50M§Δ	4.5m	§J	100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	20 †Δ				20p$Ø	PE	TO39 AØ
35#	BSW39-10†	790m	50M§Δ	4.5m	§J	100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	30 †Δ				20p$Ø	PE	TO39 AØ
36#	BSW39-16†	790m	50M§Δ	4.5m	§J	100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	40 †Δ				20p$Ø	PE	TO39 AØ
37	2N1943	800m		4.5m	§J	60	60	8.0	500m	10uØ	6.0Ø	1.0mØ	12 Δ		500 Ø			PL	TO5
38	2N5189	800m		4.5m	§S	60	55 Ø	5.0	2.0	100u	1.0Ø	1.0 Ø	15 †Δ					R81	AØ
39	2N5262†	800m		5.7m	§S	75	50	5.0	2.0	100u	1.0Ø	500mØ	40 †Δ						R81e AØ
40#	2SC1072†	800m			§J						1.0Ø	500mØ	35 †Δ				12pØ	PE	R81e AØ
41#	2SC1072A†	800m			§J						1.0Ø	500mØ	35 †Δ				3.0pØ	PE	R81e AØ
42#	2SC1385H†	800m		5.3m	§J	60	30	5.0	500m	500nØ	1.1Ø	300mØ	35 †Δ					PE	TO39 AØ
43#	2SC1386H†	800m		5.3m	§J	70	52	5.0	1.0	100uØ	1.0Ø	60mØ	30 †Δ					PE	TO39 AØ
44#	BC312	800m			§	100	100	5.0	150m	100n	10Ø	30mØ	130 †	5.3u	1.5k	1.5	6.0p	PL	TO5 A
45#	BCW90K	800m		6.4m	§J	50	40	5.0	800m	30nØ	2.0Ø	150mØ	100 †Δ				12pØ	PE	X28 A
46#	BCW91K	800m		6.4m	§J	70	60	5.0	800m	30nØ	2.0Ø	150mØ	100 †Δ				12pØ	PE	X28 A
47#	BFR36	800m		5.0m	§J	40	30	4.0	150m		5.0Ø	150mØ	40 †				2.1p†	PE	TO39
48#	BFY41	800m		4.5m	§S	120	120 §	5.0	600m	10uØ	10Ø	50mØ	35 †Δ				14p	PL	TO5
49#	BSV69†	800m		5.2m	§J	45	40 *	6.0	1.0	100u	1.0Ø	500mØ	50 †#				10pØ	PEΔ	TO39 AØ
50#	C428	800m		4.5m	§	40	30	5.0		50u	10Ø	10mØ	150 †				14p	PL	TO39 A
51#	C744	800m		8.0m	§J	60	60 §	5.0		100u	10Ø	50mØ	175 †				14p	PE	TO39 A
52#	BF337	800m	80m§	4.6m	§S	250	200	5.0	100m	100u*	10Ø	30mØ	20 †Δ				3.5p†Ø	PL	TO39 A
53	2N1445	800m	75k†	4.5m	§J	120	120	8.0	750m	10u	10Ø	200mØ	80 †Ø#		500				TO5 Ø
54	2N4237	800m	1.0M§Δ	4.5m	§J	50	40	6.0	1	100u	10Ø	100mØ	30 Δ				100pØ		TO5 AØ
55	2N4238	800m	1.0M§Δ	4.5m	§J	80	60	6.0	1	100u	10Ø	100mØ	30 Δ				100pØ		TO5 AØ
56	2N4239	800m	1.0M§Δ	4.5m	§J	100	80	6.0	1	100u	10Ø	100mØ	30 Δ				100pØ		TO5 AØ
57#	DT1510†	800m	1.0M	5.0mØ	§S	30	20	8.0	300m	4.0u	6.0Ø	300mØ	25 †	500u	100	5.0			TO5
58#	DT1511†	800m	1.0M	5.0mØ	§S	60	40	8.0	300m	4.0u	6.0Ø	300mØ	25 †	500u	100	5.0			TO5
59#	DT1512†	800m	1.0M	5.0mØ	§S	100	70	8.0	300m	4.0u	6.0Ø	300mØ	25 †	500u	100	5.0			TO5
60#	DT1520†	800m	2.0M	5.0mØ	§S	30	20	8.0	300m	4.0u	6.0Ø	300mØ	120 †	800u	300	5.0			TO5
61#	DT1521†	800m	2.0M	5.0mØ	§S	60	40	8.0	300m	4.0u	6.0Ø	300mØ	120 †	800u	300	5.0			TO5
62#	DT1522†	800m	2.0M	5.0mØ	§S	100	70	8.0	300m	4.0u	6.0Ø	300mØ	120 †	800u	300	5.0			TO5
63	JAN2N497	800m	15M§Δ	4.5m	§S	60	60	8.0		100u	10Ø	50mØ	10 †Δ						TO5 AØ
64	JAN2N498	800m	15M§Δ	4.5m	§S	100	100	8.0		100u	10Ø	50mØ	10 †Δ						TO5 AØ
65	JAN2N656	800m	15M§Δ	4.5m	§S	60	60	8.0		100u	10Ø	50mØ	40 †Δ						TO5 AØ
66	JAN2N657	800m	15M§Δ	4.5m	§S	100	100	8.0		100u	10Ø	50mØ	40 †Δ						TO5 AØ
67	JAN2N3439†	800m	15M§Δ	4.5m	§S	450	350	7.0	1.0	500u	10Ø	5.0mØ	25 Δ				10pØ		TO5 AØ
68	JAN2N3440†	800m	15M§Δ	4.5m	§S	300	250	7.0	1.0	500u	10Ø	5.0mØ	25 Δ				10pØ		TO5 AØ
69	MJ420	800m	15M§Δ	5.3m	§J	275	250	6.0	100m	100u	20Ø	10mØ	25 Δ				12pØ		TO5 CØ
70	MJ421	800m	15M§Δ	5.3m	§J	350	325	6.0	100m	100u	20Ø	10mØ	25 Δ				12pØ		TO5 CØ
71	2N1714	800m	16M§Δ	5.3m	§J	90	60	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †#Δ				50pØ		TO5 AØ
72	JAN2N1714	800m	16M§Δ	5.2m	§J		60	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †Δ#				50 Ø		TO5 AØ
73	2N1715	800m	16M§Δ	5.3m	§J	150	100	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †#Δ				50pØ		TO5 AØ
74	JAN2N1715	800m	16M§Δ	5.2m	§J		100	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †Δ#				50 Ø		TO5 AØ
75	2N1716	800m	16M§Δ	5.3m	§J	90	60	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †#Δ				50pØ		TO5 AØ
76	JAN2N1716	800m	16M§Δ	5.2m	§J		60	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †Δ#				50 Ø		TO5 AØ
77	2N1717	800m	16M§Δ	5.3m	§J	150	100	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †#Δ				50pØ		TO5 AØ
78	JAN2N1717	800m	16M§Δ	5.2m	§J		100	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †Δ#				50 Ø		TO5 AØ
79#	2SC484	800m	20.M§	6.7m	§J	150	110	5.0	1.5	10uØ	2.0Ø	200mØ	30 †*Δ					DM	TO39 AØ
80#	2SC485	800m	20.M§	6.7m	§J	120	80	5.0	1.5	10uØ	2.0Ø	200mØ	30 †*Δ					DM	TO39 AØ
81#	2SC486	800m	20.M§	6.7m	§J	80	50	5.0	1.5	10uØ	2.0Ø	200mØ	30 †*Δ					DM	TO39 AØ
82	ERS100	800m	20M§Δ	5.2m	§J	100		6.0		2.0uØ	4.0Ø	50mØ	35 †Δ				15pØ		TO5 AØ
83	ERS120	800m	20M§Δ	5.2m	§J	120		6.0		2.0uØ	4.0Ø	50mØ	35 †Δ				15pØ		TO5 AØ
84	ERS140	800m	20M§Δ	5.2m	§J	140		6.0		2.0uØ	4.0Ø	50mØ	35 †Δ				15pØ		TO5 AØ
85	ERS160	800m	20M§Δ	5.2m	§J	160		6.0		2.0uØ	4.0Ø	50mØ	35 †Δ				15pØ		TO5 AØ
86	ERS180	800m	20M§Δ	5.2m	§J	180		6.0		2.0uØ	4.0Ø	50mØ	35 †Δ				15pØ		TO5 AØ
87	ERS200	800m	20M§Δ	5.2m	§J	200		6.0		1.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
88	ERS225	800m	20M§Δ	5.2m	§J	225		6.0		2.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
89	ERS250	800m	20M§Δ	5.2m	§J	250		6.0		1.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
90	ERS275	800m	20M§Δ	5.2m	§J	275		6.0		2.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
91	ERS301	800m	20M§Δ	5.2m	§J	300		6.0		1.0uØ	4.0Ø	50mØ	35 †Δ				15pØ		TO5 AØ
92	ERS325	800m	20M§Δ	5.2m	§J	325		6.0		2.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
93	ERS350	800m	20M§Δ	5.2m	§J	350		6.0		1.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
94	ERS375	800m	20M§Δ	5.2m	§J	375		6.0		2.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
95	ERS401	800m	20M§Δ	5.2m	§J	400		6.0		1.0uØ	4.0Ø	50mØ	30 †Δ				15pØ		TO5 AØ
96	ERS425	800m	20M§Δ	5.2m	§J	425		6.0		2.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
97	ERS450	800m	20M§Δ	5.2m	§J	450		6.0		1.0uØ	4.0Ø	50mØ	35 †Δ				15pØ		TO5 AØ
98	ERS475	800m	20M§Δ	5.2m	§J	475		6.0		1.0uØ	4.0Ø	50mØ	25 †Δ				15pØ		TO5 AØ
99	ETP2008†	800m	20M§Δ	5.3m	§J	175	110	8.0		2.0uØ	50	5.0mØ	65	250nb	6.0	700m	7.0p	PL	TO5 AØ
100	ETP3114	800m	20M§Δ	5.3m	§J	150	150	5.0	200m	10nØ	5.0Ø	1.0mØ	25 Δ				9.0pØ		TO5 AØ
101	ETP3923	800m	20M§Δ	5.3m	§J	150	150	6.0	100m	10nØ	10Ø	25mØ	20 Δ		50		3.5pØ		TO5 AØ
102	ETP5092	800m	20M§Δ	5.3m	§J	400	350	6.0	1.0	500nØ	10Ø	100mØ	15 †Δ						TO5 AØ
103	ETP5095	800m	20M§Δ	5.3m	§J	500	400	6.0	1.0	500nØ	10Ø	100mØ	15 †Δ						TO5 AØ
104	TN631	800m	20M§Δ	4.5m	§J	20	20	5.0	800m	100n	5.0Ø	1.0mØ	65	100nb	26	2.0	8.0pØ	PEØ	TO5 A
105#	BF292	800m	30M	4.5m	§	220	220	5.0	100m	100n	50Ø	10mØ	30 †				9.0p	PL	TO39 A
106	2N696A†	800m	40M§Δ	4.5m	§J	60	35	5.0	1.0	100nØ	5.0	1.0m	15 Δ	500nØb	30 Ø	5.0 Ø	35pØ		TO5 AØ
107	2N698	800m	40M§Δ	4.5m	§J	120	60	7.0		5.0nØ	5.0Ø	1.0mØ	15 Δ	500nØb	35 Ø	2.5 Ø	15pØ	Δ	TO5 AØ
108	2N1975	800m	40M§Δ	4.5m	§J	100	60	5.0		25nØ	5.0Ø	1.0mØ	18 Δ	25uØ	600 Ø		15pØ		TO5 AØ
109	2N2008	800m	40M§Δ	4.5m	§J	175	110	8.0	500m	50nØ	5.0	1.0m	20 Δ	500nØb	30 Ø	2.5 Ø	15pØ		TO5 AØ
110	2N3114	800m	40M§Δ	4.5m	§J	150	150	5.0	200m	.01uØ	5.0Ø	1.0mØ	25 Δ				9pØ		TO5 AØ

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O A D E
1	2N3526	800m	40M§△	4.5m	§J		130	120	5.0		1.0uØ	5.0Ø	1.0mØ	25 △		30 ☑		12pØ		TO5		AØ
2	2N3712	800m	40M§△	5.3m	§S		150	150	5.0	200m	.10uØ	10Ø	30mØ	25 △				9pØ		TO5		AØ
3	2N3923	800m	40M§△	4.5m	§J		150	150	6.0	100m	.01uØ	10Ø	25mØ	20 △		50		3.5pØ		TO5		AØ
4#	BC119	800m	40M§△	4.5m	§J		60	30	5.0		.05uØ	1.0Ø	150mØ	40 †△				25pØ	PE	TO5		
5#	BC120	800m	40M§△	4.5m	§J		60	30	5.0		.05uØ	1.0Ø	150mØ	20 †△				25pØ	DPE	TO5		
6	BC138	800m	40M§△	4.5m	§J		60	30	5.0		.05uØ	10Ø	10mØ	100 †#				12p	DPE	TO5		
7#	BC142	800m	40M§△	4.5m	§J		80	60	5.0		.05uØ	2.0Ø	200mØ	20 †△				25pØ	PE	TO5		
8#	BC211	800m	40.M§	5.3m	§J		80	40	7.0	1	.1nØ	1.0Ø	10mØ	70 †				6.0p		TO39	A	
9#	BC394	800m	40M	1.0m	§		160	160	6.0	100n	100n	50Ø	10mØ	50 †				6.0p	PL	TO18	A	
10#	BFX98	800m	40M△§	4.5m	§J		150	150	6.0	100m	.01uØ	10Ø	25mØ	30 †△#				3pt☑	PL	TO5		AØ
11#	BFY57	800m	40M§△	4.5m	§J		125	125	5.0	100m	100nØ	5.0Ø	1.0mØ	50	5.3u	1.5k	1.5	6.0p	DPL	TO5		Ø
12	2N697A†	800m	50M§△	4.5m	§J		60	35	5.0	1.0	100nØ	5.0Ø	1.0m	25 △	500nØb	30 ☑	5.0 ☑	35pØ		TO5		AØ
13	2N699A●	800m	50M§△	5.2m	§J		120	80 §	5.0		500nØ	5.0Ø	1.0mØ	35 △	500nØb	30 ☑	2.5 ☑	20pØ	△	TO5		AØ
14	2N1889	800m	50M§△	4.5m	§J		100	60	7.0		10nØ	5.0Ø	1.0mØ	30 △	500nØb	30 ☑	1.2 ☑	15pØ		TO5		AØ
15	2N1893	800m	50M§△	4.5m	§J		120	80	7.0	500m	10nØ	5.0Ø	1.0mØ	30 △	500nØb	30 ☑	1.2 ☑	15pØ	△	TO5		AØ
16	2N1974	800m	50M§△	4.5m	§J		100	60	7.0		25nØ	5.0Ø	1.0mØ	36 △	50uØ	1.0kØ		15pØ		TO5		AØ
17	2N2049	800m	50M§△	4.5m	§J		75	50 §	7.0	500m	10nØ	5.0Ø	1.0mØ	75 △	500nØb	34 ☑	5.0 ☑	25pØ	Ø	TO5		AØ
18	2N2192†	800m	50M§△	4.5m	§J		60	40	5.0	1	.01uØ	10Ø	10mØ	75 †△				20pØ		TO5		AØ
19	2N2192A†	800m	50M§△	4.5m	§J		60	40	5.0	1.0	10nØ	10Ø	10mØ	75 †△				20pØ		TO5		AØ
20	2N2192B†	800m	50M§△	4.5m	§J		60	40	5.0	1	.01uØ	10Ø	10mØ	75 †△				20pØ		TO5		AØ
21	2N2193†	800m	50M§△	4.6m	§J		80	50	8.0	1.0	10nØ	10Ø	10m	30 †△				20pØ		TO39		AØ
22	2N2193A†	800m	50M§△	4.6m	§J		80	50	8.0	1.0	10nØ	10Ø	10m	30 †△				20pØ		TO39		AØ
23	2N2193B†	800m	50M§△	4.5m	§J		80	50	8.0	1	.01uØ	10Ø	10mØ	30 †△				20pØ		TO5		AØ
24	2N2194†	800m	50M§△	4.5m	§J		60	40	5.0	1	.01uØ	10Ø	10mØ	15 †△				20pØ		TO5		AØ
25	2N2194A†	800m	50M§△	4.5m	§J		60	40	5.0	1	.01uØ	10Ø	10mØ	15 †△				20pØ		TO5		AØ
26	2N2194B†	800m	50M§△	4.5m	§J		60	40	5.0	1	.01uØ	10Ø	10mØ	15 †△				20pØ		TO5		AØ
27	2N2243	800m	50M§△	4.5m	§J		120	80	7.0	1	.01uØ	10Ø	10mØ	30 †△				15pØ	△	TO5		AØ
28	2N2243A	800m	50M§△	4.5m	§J		120	80	7.0	1	.01uØ	10Ø	10mØ	30 †△				15pØ	△	TO5		AØ
29	2N2443	800m	50M§△	4.5m	§J		120	100	7.0		.01uØ	5.0Ø	1.0mØ	30 △	50uØ	1.0kØ		15pØ		TO5		AØ
30	2N2868	800m	50M§△	4.5m	§J		60	40	7.0	1	.01uØ	10Ø	10mØ	30 †△				20pØ	△	TO5		AØ
31	2N2890†	800m	50M§△	5.0m	§J		100	80	5.0		100n#	10Ø	50mØ	30 △				120pØ		TO5		AØ
32	2N2891†	800m	50M§△	5.0m	§J		100	80	5.0		100n#	10Ø	50mØ	50 △				120pØ		TO5		AØ
33	2N3036†	800m	50M§△	4.5m	§S		120	80	7.0	1.2	.01uØ	10Ø	10mØ	40 △	120uØ	900 ☑		15pØ		TO5		AØ
34	2N4895†	800m	50M§△	4.5m	§J		120	60	6.0	5.0	1.0m§♦	2.0Ø	2.0 Ø	40 †△				80pØ		TO39		CØ
35	2N4897†	800m	50M§△	4.5m	§J		150	80	6.0	5.0	1.0m§♦	2.0Ø	2.0 Ø	40 †△				80pØ		TO39		CØ
36#	2SC516	800m	50M§	5.2m	§J		100	60	5.0	1.5	500nØ	2.0Ø	200mØ	60 †				25p	D	TO5		A
37#	2SC516A	800m	50M§	5.2m	§J		140	100	5.0	1.5	500nØ	2.0Ø	200mØ	60 †				25p	D	TO5		A
38#	BFR51†	800m	50M§△	6.4m	§J		60	60	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 △				8.0pØ	PE	u125		B
39#	BFR52†	800m	50M§△	6.4m	§J		40	40	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 △				8.0pØ	PE	u125		B
40#	BFW33	800m	50M△§	4.5m	§J		120	80	7.0		.01uØ	10Ø	150mØ	40 †△#	11u	2.8k	3.5	15pØ	PL	TO5		AØ
41#	BFX84	800m	50M§△	4.5m	§J		100	60	6.0	1	.05uØ	10Ø	10mØ	20 †△					PE	TO5		AØ
42#	BFX85	800m	50M§△	4.5m	§J		100	60	6.0	1	.05uØ	10Ø	10mØ	50 †△					PE	TO5		AØ
43#	BFX86	800m	50M§△	4.5m	§J		40	35	6.0	1	.05uØ	10Ø	10mØ	50 †△					PE	TO5		AØ
44#	BFY51†	800m	50M§△	4.5m	§J		60	60	6.0	1.0	500n	6.0Ø	10mØ	60	35u	220	700m		PE	TO5		Ø
45#	BFY52†	800m	50M§△	4.5m	§J		40	40	6.0	1.0	500n	6.0Ø	10mØ	120	70u	400	1.3		PE	TO5		Ø
46#	BFY53	800m	50M§△	4.5m	§J		30	20	6.0	1.0		6.0Ø	150mØ	30 †△				12pØ	PE	TO5		Ø
47#	BSV60†	800m	50M§△	5.2m	§J		45	40 *	5.0	3.0	100u	2.0Ø	2.0 Ø	80 †#				75pØ	PE△	TO39		AØ
48#	BSY45	800m	50.M△	4.5m	§J							10Ø	150mØ	80 †#				15pØ	PL△	TO5		
49#	BSY46†	800m	50.M△	4.5m	§J							10Ø	150mØ	80 †#				20pØ	PE	TO5		
50#	BSY91	800m	50M§△	4.5m	§J		40	25	5.0		50nØ	10Ø	5.0mØ	30 †△				25pØ	PL△	TO5		Ø
51#	BSY92	800m	50M§△	4.5m	§J		60	40 *	5.0		100u	2.0Ø	10mØ	60 †△				25pØ	PL△	TO39		AØ
52#	TCS100	800m	50M§△	6.4m	§S		60	60	5.0	1.0	100nØ	5.0Ø	150mØ	50 #△				10pØ	PE	X55		A
53#	TCS102	800m	50M§△	6.4m	§S		60	60	5.0	1.0	100mØ	5.0Ø	150mØ	100 #△				10pØ	PE	X55		A
54	TN79	800m	50M§△	4.7m	§J		30	20	5.0		1.0nØ	1.0Ø	100uØ	75 †△				10pØ	PE☑	TO5		A
55	2N1420A	800m	60M§△	4.5m	§J		60	40 §	7.0	1 #	.01uØ	10Ø	.10mØ	35 †△				25pØ	△	TO5		AØ
56	2N1613	800m	60M§△	4.5m	§J		75	50 §	7.0		10nØ	5.0Ø	1.0mØ	30 △	500nØb	34 ☑	3.0 ☑	25pØ	PL△	TO5		AØ
57	JAN2N1613	800m	60M§△	4.5m	§J		75	30	7.0	500m	10nØ	5.0Ø	1.0mØ	100 ☑	1.0uØb	8.0 ☑	3.0 ☑	25pØ	△	TO5		AØ
58	2N1890	800m	60M§△	4.5m	§J		100	60	7.0		10nØ	5.0Ø	1.0mØ	50 △	300nØb	30 ☑	1.5 ☑	15pØ		TO5		AØ
59	JAN2N1893	800m	60M§△	4.5m	§J		120	80	7.0	500m	10nØ	5.0Ø	1.0mØ	100 ☑	500nØb	8.0 ☑	1.5 ☑	15pØ	△	TO5		AØ
60	2N1973	800m	60M§△	4.5m	§J		100	60	7.0		25nØ	5.0Ø	1.0mØ	76 △	100uØb	1.8kØ		15pØ		TO5		AØ
61	2N2297	800m	60M§△	4.5m	§J		80	35	7.0	1	.01uØ	10Ø	150mØ	40 †#△				12pØ		TO5		AØ
62	2N3108†	800m	60M§△	4.5m	§J		100	60	7.0	1	.01u§	10Ø	.10mØ	20 †△				20pØ	Ø	TO5		AØ
63	2N3110†	800m	60M§△	4.5m	§J		80	40	7.0	1	.01u§	10Ø	.10mØ	20 †△				25pØ	Ø	TO5		AØ
64	2N3122	800m	60M§△	4.5m	§J		50	30	5.0	500m	2.0uØ	5.0Ø	300mØ	25 †#△				25pØ		TO5		AØ
65▼#	2SC510†	800m	60M§	5.3m	§J		140	100	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39		AØ
66▼#	2SC511†	800m	60M§	5.3m	§J		120	80	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39		AØ
67▼#	2SC512†	800m	60M§	5.3m	§J		100	60	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39		AØ
68#	2SC512O†	800m	60M§	5.3m	§J		100	60	5.0	1.5	1.0uØ	2.0Ø	200mØ	50 †△				25p	DPL	TO39		AØ
69#	2SC512R†	800m	60M§	5.3m	§J		100	60	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39		AØ
70▼#	2SC513†	800m	60M§	5.3m	§J		70	40	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39		AØ
71	BF156	800m	60.M§	4.5m	§J		120	120	5.0		.10uØ	5.0Ø	10mØ	50				6.0p	DPL	TO5		
72	BF157	800m	60.M§	4.5m	§J		150	150	5.0		.10uØ	10Ø	10mØ	60 †#				6.0p	DPL	TO5		
73#	BFR50†	800m	60M§△	6.4m	§J		80	80	6.0	1.0	50nØ	6.0Ø	1.0mØ	10 △				8.0pØ	PE	u125		B
74#	BFW24	800m	60M△§	4.5m	§J		100	60	7.0	1	.01uØ	1.0Ø	150mØ	40 †△#				20pØ	PE	TO5		AØ
75#	BFW26	800m	60M△§	4.5m	§J		80	40	7.0	1	.01uØ	1.0Ø	150mØ	40 †△#				25pØ	PE	TO5		AØ
76#	BFW67	800m	60M§	4.5m	§J		300	300	8.0	400m	1.0uØ§	10Ø	100mØ	110 †				14p	PL	TO39		AØ
77#	BFY34	800m	60M§△	4.5m	§J		75	50 §	7.0	1.0 #	10nØ	10Ø	10mØ	35 †△				25p	PL△	TO5		AØ
78#	BFY40	800m	60.M§	4.5m	§J		60	30	7.0	800m	.10uØ	10Ø	50mØ	50 †△	3.0u	2.5k	.20	14p	PL	TO5		
79#	BFY43	800m	60.M§	5.3m	§J			140	5.0	100m	.10uØ	10Ø	10mØ	25 †△				6pØ	PL	TO5		
80#	BFY50†	800m	60M§△	4.5m	§J		80	80	6.0	1.0	50nØ	6.0Ø	10mØ	45	30u	180	550m		PE	TO5		Ø
81#	BFY55☑	800m	60M§	4.0m	§J		80	35	7.0	1.0	10nØ							12p§☑	PE	TO39		AØ
82#	BSV84†	800m	60M§	4.0m	§J		120	70	7.0	1.0	100u	1.0Ø	150mØ	70 †				25p	PE	TO39		A
83#	BSY44	800m	60.M△	4.5m	§J							10Ø	150mØ	80 †#				25pØ	PL△	TO5		
84	SE7001	800m	60.M§	4.5m	§J		150	150	5.0		.10uØ	5.0Ø	10mØ	50	5.3u	1.5k	1.5	6.0p	DPL	TO5		CØ
85	SE7002	800m	60.M§	4.5m	§J		120	120	5.0		.10uØ	5.0Ø	10mØ	50	5.3u	1.5k	1.5	6.0p	DPL	TO5		CØ
86▼	UPI1613	800m	60M§△	4.5m	§J		75	50	7.0		10nØ	5.0Ø	1.0mØ	30 △	500nØb	34 ☑	3.0 ☑	25pØ		TO105		A
87#	ZT1613	800m	60M§△	4.5m	§J		75	50 §	7.0	1	.01uØ	10Ø	150mØ	40 †△				25pØ	PL	TO5		
88#	BF292A	800m	66M§	4.5m	§J		150	150	5.0	100m	100nØ	50Ø	10mØ	30 †△				6.0p	DPL	TO5		
89#	BF292B	800m	66M§	4.5m	§J		190	190	5.0	100m	100nØ	50Ø	10mØ	30 †△				6.0p	DPL	TO5		
90#	BF292C	800m	66M§	4.5m	§J		220	220	5.0	100m	100nØ	50Ø	10mØ	30 †△				6.0p	DPL	TO5		
91	2N1335	800m	70M§△	5.3m	§J		120	90 §	4.0	300m	1.0uØ	10Ø	30mØ	10 †#△				8.0p	PL	TO5		A
92	2N1336	800m	70M§△	5.3m	§J		120	90 §	4.0	300m	1.0uØ	10Ø	30mØ	10 †#△				10p	PL	TO5		A
93	2N1337	800m	70M§△	5.3m	§J		120	90 §	4.0	300m	1.0uØ	10Ø	30mØ	10 †#△				8.0p	PL	TO5		A
94	2N1338	800m	70M§△	5.3m	§J		80	50 §	3.0	300m	10uØ	10Ø	30mØ	10 †#△				10p	PL	TO5		A
95	2N1339	800m	70M§△	5.3m	§J		120	100 §	3.0	300m	1.0uØ	10Ø	30mØ	10 †#△				8.0p	PL	TO5		A
96	2N1340	800m	70M§△	5.3m	§J		120	100 §	3.0	300m	1.0uØ	10Ø	30mØ	10 †#△				8.0p	PL	TO5		AØ
97	2N1341	800m	70M§△	5.3m	§J		120	100 §	3.0	300m	1.0uØ	10Ø	30mØ	10 †#△				8.0p	PL	TO5		A
98	2N1342	800m	70M§△	5.3m	§J		150	125 §	5.0	300m	10uØ	10Ø	30mØ	10 †#△				8.0p	PL	TO5		AØ
99	2N1505	800m	70M§△	5.3m	§J		50	20	3.0	500m	50uØ	28Ø	100mØ	7.0 †#△				20pØ		TO5		AØ
100	2N1711	800m	70M§△	4.5m	§J		75	50 §	7.0	1.0 #	10nØ	5.0Ø	1.0mØ	50 △	500nØb	34 ☑	5.0 ☑	25pØ	Ø	TO5		AØ
101	JAN2N1711†	800m	70M§△	4.5m	§J		75	30	7.0	500m	10nØ	10Ø	5.0mØ	90 △	1.0uØb	8.0 ☑	5.0 ☑	25pØ	Ø	TO5		AØ
102	JAN2N1890†	800m	70M§△	4.5m	§J		100	60	7.0	500m	10nØ	10Ø	5.0mØ	90 △	300nØb	8.0 ☑	1.5 ☑	5.0pØ	Ø	TO5		
103	2N3107†	800m	70M§△	4.5m	§J		100	60	7.0	1	.01u§	10Ø	1.0mØ	60 △				20pØ	Ø	TO5		AØ
104	2N3109†	800m	70M§△	4.5m	§J		80	40	7.0	1		10Ø	1.0mØ	60 △				25pØ	Ø	TO5		AØ
105#	BFW25	800m	70M△§	4.5m	§J		80	40	7.0	1	.01uØ	1.0Ø	150mØ	100 †△#				25pØ	PE	TO5		AØ
106#	BFY46	800m	70M§△	4.5m	§J		75	50 §	7.0	1.0 #	10nØ	10Ø	10mØ	75 †△				25p	Ø	TO5		AØ
107#	C425	800m	70M§	4.5m	§A		75	60	7.0		20nØ	10Ø	5.0mØ	75	16u	750	1.1	13p	DPL	TO5		Ø
108▼	UPI1711	800m	70M§△	4.5m	§J		75	50	7.0	1.0 #	10nØ	5.0Ø	1.0mØ	50 △	500nØb	34 ☑	3.0 ☑	25pØ		TO105		A
109#	ZT1711	800m	70M§△	4.5m	§J		75	50	7.0		10nØ	10Ø	150mØ	100 †△#				25pØ	PLØ	TO5		Ø
110#	2SC1008	800m	75M§	6.4m	§J		80	60	8.0	700m	100nØ	2.0Ø	50mØ	80 †#△				17p	E	TO39		AØ

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1	2N3020	800m	80M§△	4.5m	§J	140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	30 △				12pØ		TO5	AØ
2	2N4896†	800m	80M§△	4.5m	§J	120	60	6.0	5.0	1.0m§♦	2.0Ø	2.0 Ø	100 †△				80pØ		TO39	CØ
3#	BC288	800m	80M§	4.5m	§J	80	40	6.0	5.0	10n§	2.0Ø	2.0 Ø	30 †△				45p	DPE	TO5	
4#	BC293	800m	80M§	4.5m	§J	80	60	6.0	5.0	10u§	2.0Ø	2.0 Ø	120 †				45p	PE	TO39	A
5#	BCW44	800m	80M	4.5m	§	70	55	5.0	1.0	100n	1.0Ø	200mØ	40 †				12p	PE	TO39	A
6#	BF294	800m	80M§	4.5m	§J	160	160	6.0	100m	100u	50Ø	10mØ	70 †				2.5p	PL	TO39	A
7#	BF336	800m	80M§	4.6m	§S	185	180	5.0	100m	100u*	10Ø	30mØ	20 †△				3.5pt/Ø	PL	TO39	A
8#	BF338	800m	80M§	4.6m	§S	300	225	5.0	100m	100u*	10Ø	30mØ	20 †△				3.5pt/Ø	PL	TO39	A
9#	BFR77	800m	80M§	4.5m	§J	120	80	7.0	1.0	10n	10Ø	150mØ	40 †				12p	PE	TO39	
10#	BFR78	800m	80M§	4.5m	§J	120	100	7.0	1.0	10n	10Ø	100uØ	20 †				12p	PE	TO39	
11#	BFX69	800m	80M§	4.5m	§J	75	30	7.0		10nØ	5.0Ø	1.0mØ	55	12u	2.2k	3.6	18p	DPLØ	TO5	AØ
12#	BFY56B	800m	80M§	4.5m	§	80	55	7.0	1.0	50n	1.0Ø	150mØ	70 †				12p	PE	TO39	A
13#	BSW65†	800m	80M§	4.5m	§J	80	80	6.0	1.0	100u	5.0Ø	1.0 Ø	15 †△				35p$/Ø	PE	TO5	AØ
14	BSW66/Ø†	800m	80M†		§J						5.0Ø	10mØ	30 △				35p/Ø$		TO39	AØ
15	BSW67/Ø†	800m	80M†		§J						5.0Ø	10mØ	30 △				35p/Ø$		TO39	AØ
16	BSW68/Ø†	800m	80M†		§J						5.0Ø	10mØ	30 △				35p/Ø$		TO39	AØ
17#	C426†	800m	80M§	4.5m	§J	60	30	5.0		100nØ	5.0Ø	1.0mØ	60	8.0u	1.8k	2.1	12p	DPE	TO5	Ø
18#	BFX69A	800m	84.M§	4.5m	§J	80	40	7.0		.01uØ	5.0Ø	1.0mØ	70	8.0u	1.8k	2.1	13p	DPLØ	TO5	AØ
19#	BC310	800m	86M§		§	70	70	5.0	1.0	50n	10Ø	10mØ	110 †				12p	PE	TO5	A
20	BF174	800m	86.M§	4.5m	§J	150	150	6.0		.01uØ	10Ø	25mØ	20 △				2.6p	DPL	TO5	
21#	BFY56†	800m	86.M§	4.5m	§J	80	45	5.0		.05uØ	10Ø	10mØ	40 †				12p	DPE	TO5	AØ
22#	BFY56A	800m	86.M§	4.5m	§J	80	55	7.0		.05uØ	1.0Ø	150mØ	70 †#				12p	PE	TO39	AØ
23	2N2440	800m	90M§△	4.5m	§J	120	80	7.0	500m	1.0nØ	10Ø	5.0mØ	70 △	500nØb	30 Ø	2.5 Ø	15pØ	△	TO5	AØ
24#	BFR20	800m	90M§	28m	§	35	75 Ø	7.0		10n	1.0Ø	150mØ	90 †△				13p	PE	TO39	A
25#	BFR21	800m	90M§	28m	§	70	120 Ø	7.0		10n	1.0Ø	150mØ	40 †△	8.0u	2.0k	2.1	13p	PE	TO39	A
26	2N1893A	800m	100M§△	4.5m	§J	140	80	7.0	500m	10nØ	5.0Ø	1.0mØ	30 △	500nØb	30 Ø	1.2	8.0pØ	△	TO5	AØ
27	2N2330Ø	800m	100M§△	5.3m	§S	30	20	5.0	500m	1.0nØ	1.0Ø	10mØ	50 †△				10pØ	△	TO5	AØ
28	2N3019	800m	100M§△	4.5m	§J	140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	80 △				12pØ	Ø	TO5	AØ
29	JAN2N3019	800m	100M§△	4.6m	§J	140	80	7.0	1.0	10n§	5.0Ø	1.0mØ	80 △				12pØ	Ø	TO5	AØ
30#	2SC995	800m	100M§		§J	300	300	5.0	100m	100nØ	10Ø	50mØ	80 †				5.5pØ	DPL	TO39	A
31#	2SC1382	800m	100M§		§J	80	80		750m	500nØ	2.0Ø	150mØ	120 †				20pØ	PE	u119	B
32▼#	2SD355	800m	100M§	6.9m	♦J	30	25	4.0	1.0	1.0uØ	1.0Ø	500mØ	100 †#					PE	TO92	
33#	BC286	800m	100M§	4.5m	§J	70	60	5.0	1.0	20n§	2.0Ø	500mØ	20 †△				12p	DPE	TO5	
34#	BC323	800m	100M§	4.5m	§	100	100 Ø	5.0	5.0	100u	1.0Ø	500mØ	160 †				80p	PE	TO39	A
35#	BC324	800m	100M	4.5m	§	85	55	5.0	1.0		1.0Ø	50mØ	20 †				25p	PE	TO39	A
36#	BC340-6	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	40 †△				10p	PE	TO39	AØ
37#	BC340-10	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	63 †△				10p	PE	TO39	AØ
38#	BC340-16	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	100 †△				10p	PE	TO39	AØ
39#	BC341-6	800m	100M§	4.5m	§J	60	60	5.0	500m	100n§	5.0Ø	50mØ	40 †△				10p	PE	TO39	AØ
40#	BC341-10	800m	100M§	4.5m	§J	60	60	5.0	500m	100n§	5.0Ø	50mØ	63 †△				10p	PE	TO39	AØ
41#	BF108	800m	100M§	4.5m	§S	135	135 §	3.0		1.0uØ	10Ø	30mØ	50 †				3pØ	PL	TO5	AØ
42#	BF305	800m	100M§	4.5m	§J	160	150	5.0	50m		10Ø	15m	30 †△					PL	TO39	A
43#	BFR19	800m	100M§	28m	§	35	75 Ø	7.0		10n	1.0Ø	500mØ	30 †△	8.5u	2.2k	2.4	12p	PE	TO39	A
44#	BFT39	800m	100M§△	4.5m	§A	90	80	5.0	1.0	100nØ	10Ø	100mØ	250 †				10pØ	PE	TO39	AØ
45#	BFT40	800m	100M§△	4.5m	§A	70	60	5.0	1.0	100nØ	10Ø	100mØ	250 †				10pØ	PE	TO39	AØ
46#	BFT41	800m	100M§△	4.5m	§A	60	50	5.0	1.0	100nØ	10Ø	100mØ	300 †				10pØ	PE	TO39	AØ
47#	BFX68A	800m	100M§	4.5m	§J	80	40	7.0		.01uØ	5.0Ø	1.0mØ	100	20u	5k	6.0	12p	DPLØ	TO5	AØ
48#	BSX22	800m	100M§	5.3m	§J	40	32	5.0	1.5		2.0Ø	500mØ	35 †△				20p	PE	TO5	
49#	BSX23	800m	100M§	5.3m	§J	90	65	5.0	1.5		2.0Ø	500mØ	35 †△				20p	PE	TO5	
50#	BSY51	800m	100M§	4.5m	§J	60	25	5.0	500m	100nØ	5.0Ø	1.0mØ	55				10p$/Ø	PE△	TO39	AØ
51#	BSY53	800m	100M§	4.5m	§J	75	30	7.0	750m	10nØ	5.0Ø	1.0mØ	55				10p$/Ø	PE△	TO39	AØ
52#	BSY55	800m	100M§	4.5m	§J	120	80	7.0	500m	10nØ	5.0Ø	1.0mØ	75				10p$/Ø	PE△	TO39	AØ
53#	BSY87	800m	100M§	4.5m	§J	100	60	7.0	500m	10nØ	10Ø	150mØ	40 †△				10p	PE	TO39	AØ
54#	BSY88	800m	100M§	4.5m	§J	100	60	7.0	500m	10nØ	10Ø	150mØ	100 †△				10p	PE	TO39	AØ
55#	BSY90	800m	100M§	4.5m	§J	60	25	5.0	500m	10nØ	10Ø	150mØ	250 †△				10p	PE	TO39	AØ
56#	BU125	800m	100M	4.5m	§	130	60	5.0	5.0	10u	2.0Ø	5.0 Ø	70 †					PE△	TO39	
57#	CP409†	800m	100M§	4.5m	§J	60	60	5.0	1	10uØ	10Ø	1 Ø	130 †#					DPE	TO5	AØ
58#	SFT187	800m	100M§	4.5m	§J	135	135 §	3.0		1.0uØ	10Ø	30mØ	50 †				3.0pØ		TO5	Ø
59	TN53	800m	100M§△	4.5m	§J	75	45	5.0	800m	10nØ	5.0Ø	1.0mØ	55	200nØb	35 Ø	1.2 Ø	8.0pØ	PE△	TO5	A
60	TN59†	800m	100M§△	4.5m	§J	40	30	5.0	800m	20nØ	5.0Ø	1.0mØ	140	100nØb	27	3.2	8.0pØ	PEØ	TO5	A
61	TN61†	800m	100M§△	4.5m	§J	40	30	5.0	800m	20nØ	5.0Ø	1.0mØ	50	900nØb	26	3.2	8.0pØ	PEØ	TO5	A
62#	BF257/Ø	800m	110M§		§J	160	160	5.0	100m	50nØ	10Ø	30mØ	25 †△				5.5p	PE	TO5	A
63#	BF258/Ø	800m	110M§		§J	250	250	5.0	100m	50nØ	10Ø	30mØ	25 †△				5.5p	PE	TO5	A
64#	BF259/Ø	800m	110M§		§J	300	300	5.0	100m	50nØ	10Ø	30mØ	25 †△				5.5p	PE	TO5	A
65	2N4383	800m	120M§/Ø	4.7m	§S	40	30	5.0	800m	10nØ	5.0Ø	1.0mØ	1.0k/Ø	200nØb	32 Ø		8.0pØ	Ø	TO5	A
66	2N4385	800m	120M§/Ø	4.7m	§S	40	30	5.0	800m	10nØ	5.0Ø	1.0mØ	1.0k/Ø	200nØb	32 Ø		8.0pØ	Ø	TO5	A
67#	2SC309†	800m	120M§	4.5m	§J	120	80	5.0	500m	1.0uØ	10Ø	150mØ	65 †#				10p	PL△	TO5	AØ
68#	2SC310†	800m	120M§	4.5m	§J	140	100	5.0	500m	.01uØ	10Ø	150mØ	65 †#				10p	PL△	TO5	AØ
69#	2SC788	800m	120M§		§J	250	150	5.0	50m	.1uØ	5.0Ø	10mØ	100 †				4.0p	PL	TO5	A
70#	BF177	800m	120M§	5.3m	§S	100	60	5.0	100m		15Ø	20mØ	20 †△				8.0pØ	PE	TO39	A
71#	BF178	800m	120M§	5.3m	§S	160	115	5.0	100m		15Ø	20mØ	20 †△				8.0pØ	PE	TO39	A
72#	BF179	800m	120M§	5.3m	§S	250	115	5.0	100m		15Ø	20mØ	20 †△				8.0pØ	PE	TO39	A
73#	BFW45	800m	120M§	4.5m	§J	165	130	5.0	50m	.10uØ	20Ø	50mØ	20 △†				4p$	PL	TO39	AØ
74♦#	BC635	800m	130M§	6.0m	§J	45	45	5.0	1.0	100nØ	2.0Ø	150mØ	40 †△					PE	TO92	D
75♦#	BC637	800m	130M§	6.0m	§J	60	60	5.0	1.0	100nØ	2.0Ø	150mØ	40 †△					PE	TO92	D
76♦#	BC639	800m	130M§	6.0m	§J	100	80	5.0	1.0	100nØ	2.0Ø	150mØ	40 †△					PE	TO92	D
77#	BFR86	800m	130M§	6.4m	§A	120	120	5.0	200m	50n	10Ø	30mØ	20 †△*				2.2pt	PE	TO92	B
78#	BFR86TO5	800m	130M§	6.4m	§A	120	120	5.0	200m	50n	10Ø	30mØ	20 †△*				2.2pt	PE	u125	B
79#	BFR87	800m	130M§	6.4m	§A	160	160	5.0	200m	50nØ	10Ø	30mØ	20 †△*				2.2pt	PE	TO92	B
80#	BFR87TO5	800m	130M§	6.4m	§A	160	160	5.0	200m	50nØ	10Ø	30mØ	20 †△*				2.2pt	PE	u125	B
81#	BFR88	800m	130M§	6.4m	§A	250	250	5.0	200m	50nØ	10Ø	30mØ	20 †△*				2.2pt	PE	TO92	B
82#	BFR88TO5	800m	130M§	6.4m	§A	250	250	5.0	200m	50nØ	10Ø	30mØ	20 †△*				2.2pt	PE	u125	B
83#	BFR89	800m	130M§	6.4m	§A	300	300	5.0	200m	50nØ	10Ø	30mØ	20 †△*				2.2pt	PE	TO92	B
84#	BFR89TO5	800m	130M§	6.4m	§A	300	300	5.0	200m	50nØ	10Ø	30mØ	20 †△*				2.2pt	PE	u125	B
85#	BSY52	800m	130M§	4.5m	§J	60	25	5.0	500m	100nØ	5.0Ø	1.0mØ	100				10p$/Ø	PE△	TO39	AØ
86#	MA8001	800m	130M§△	4.7m	§J	40	30	5.0	800m	500nØ	10Ø	150mØ	30 †△#	15ub	4.9k	4.2	12pØ	PE△	TO5	
87#	MA8002	800m	130M§△	4.7m	§J	120	80	7.0	800m	10nØ	10Ø	150mØ	40 †△#	500nØb	30 Ø	1.5 Ø	10pØ	PE△	TO5	
88#	MA8003	800m	130M§△	4.7m	§J	80	60	7.0	800m	10nØ	10Ø	150mØ	100 †△#	500nØb	30 Ø	1.5 Ø	10pØ	PE△	TO5	
89	2N1506	800m	140M§△	5.3m	§J	60	20	4.0	500m	10uØ	28Ø	100mØ	10 †#△				12pØ		TO5	AØ
90	2N1506A	800m	140M§△	4.6m	§J	80	50	5.0	500m	50nØ	28Ø	100mØ	10 †△				12pØ		TO5	AØ
91	2N1837A†	800m	140M§△	5.3m	§J	80	30	8.0	500m	.50uØ	10Ø	150mØ	40 †△				18pØ		TO5	AØ
92#	BSY54	800m	145M§	4.5m	§J	75	30	7.0	750m	10nØ	5.0Ø	1.0mØ	100				10p$/Ø	PE△	TO39	AØ
93#	BSY56	800m	145M§	4.5m	§J	120	80	7.0	500m	10nØ	5.0Ø	1.0mØ	120				10p$/Ø	PE△	TO39	AØ
94	2N2863	800m	150M§△	4.5m	§S	60	25	5.0	1	.50uØ	15Ø	10mØ	20 †△				13pØ		TO5	AØ
95	2N2864	800m	150M§△	4.5m	§S	60	25	5.0	1	.50uØ	15Ø	10mØ	12 †△				13pØ		TO5	AØ
96	2N2939	800m	150M§△	33m	▼S	75	60	7.0	1.0	25nØ	10Ø	150mØ	240 †△				10pØ		TO5	A
97	2N2940	800m	150M§△	33m	▼S	120	80	7.0	1.0	25nØ	10Ø	150mØ	240 †△				10pØ		TO5	A
98	2N2941	800m	150M§△	33m	▼S	150	100	7.0	1.0	25nØ	10Ø	150mØ	60 †△#				12pØ		TO5	AØ
99	2N3554†	800m	150M§△	4.5m	§S	60	30	5.0	1.2	.5u§	1.0Ø	750mØ	25 †△				25pØ		TO5	AØ
100	2N4943	800m	150M§△	4.5m	§S	120	80	7.0	1	.01uØ	10Ø	150mØ	100 †△				12pØ		TO5	AØ
101#	2SC59	800m	150M§	5.3m	§J	120	60	6.0	300m	.50uØ	10Ø	150mØ	35 †#				10p	PE	TO5	
102#	2SC306†	800m	150M§	4.5m	§J	50	30	5.0	500m	1.0uØ	10Ø	150mØ	85 †#				10p	PL△	TO5	AØ
103#	2SC503	800m	150M§	5.6m	§J	60	50	5.0	600m	.50uØ	2.0Ø	150mØ	70 †				13p	PE	TO39	
104#	2SC504	800m	150M§	4.0m	§J	40	30	5.0	600m	1.0uØ	2.0Ø	150mØ	70 †				13p	PE	TO39	
105#	2SC560	800m	150M§	6.7m	§J	80	60	5.0	800m	.50uØ	2.0Ø	150mØ	60 †				15p	PE	TO39	
106#	BFR39†	800m	150M§	6.4m	§S	90	80	5.0	1.0	100nØ	10Ø	500mØ	50 †#				6.5p	PE	TO92	B
107#	BFR39TO5†	800m	150M§	6.4m	§S	90	80	5.0	1.0	100nØ	10Ø	500mØ	50 †				6.5p	PE	u125	B
108#	BFR40†	800m	150M§	6.4m	§S	70	60	5.0	1.0	100nØ	10Ø	500mØ	100 †#				6.5p	PE	TO92	B
109#	BFR40TO5†	800m	150M§	6.4m	§S	70	60	5.0	1.0	100nØ	10Ø	500mØ	100 †				6.5p	PE	u125	B
110#	BFR41†	800m	150M§	6.4m	§S	60	50	5.0	1.0	100nØ	10Ø	500mØ	150 †#				6.5p	PE	TO92	B

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] MAX. COLL. DISS. @25°C (W)	[2] fab (Hz)	DERATE IN FREE AIR W/°C	T E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	BFR41TO5†	800m	150M§	6.4m	§S	60	50	5.0	1.0	100nØ	10Ø	500mØ	150 †				6.5p	PE	u125	B
2#	TS2218	800m	150M§△	4.6m	§J	60	30	5.0	800m	20nØ	10Ø	10mØ	35 †				12pØ	PE	TO39	AØ
3#	TS2219	800m	150M§△	4.6m	§J	60	30	5.0	800m	20nØ	10Ø	10mØ	75 †				12pØ	PE	TO39	AØ
4#	2SC49	800m	160M§	5.3m	§J	120	70	6.0	300m	.50uØ	10Ø	150mØ	70 †#				10p	PE	TO5	
5#	2SC69	800m	160M§	5.3m	§J	120	60	6.0	300m	.50uØ	10Ø	150mØ	50 †#				10p	PE	TO5	
6#	2SC590	800m	160M§	5.3m	§J	120	70	5.0	300m	1.0uØ	10Ø	150mØ	70 †#				10p	PE	TO5	AØ
7#	BSY71	800m	160M	4.5m	§J	75	50 §	7.0		10nØ	10Ø	150mØ	130 †#	23u	4.4k	7.3	25pØ	PL△	TO5	Ø
8#	2SC686	800m	180M§		§J	150	150	6.0	50m	.01u	10Ø	25mØ	90				2.6p	PE	TO5	
9	2N2410†	800m	200M§△	4.5m	§J	60	30	5.0	800m	.30uØ	10Ø	10mØ	30 †#△				11pØ		TO5	AØ
10#	2SC307†	800m	200M§	4.5m	§J	80	40	5.0	500m	10nØ	10Ø	150mØ	85 †#				10p	PL△	TO5	AØ
11#	2SC774	800m	200M§	4.5m	§J	50	50 §	4.0	500m	10uØ	10Ø	100mØ	20 †#△				10p	PE	TO39	AØ
12#	2SC775	800m	200M§	4.5m	§J	75	75 §	4.0	1	10uØ	10Ø	100mØ	5 †#△				12p	PE	TO39	AØ
13#	BSW27†	800m	200M§△	4.5m	§J	60	50	4.0	1	.50uØ	2.0Ø	500mØ	30 †△				10pØ	PL	TO18	AØ
14#	BSW28†	800m	200M§△	4.5m	§J	60	50	4.0	1	.50uØ	2.0Ø	500mØ	20 †△				10pØ	PL	TO5	AØ
15	TN81	800m	200M§△	4.8m	§J		20	5.0		.10u	1.0Ø	10mØ	40 †△				8pØ	PE	L10	
16#	BFY50ØT	800m	210M§	4.0m	§J	80	35	6.0	1.0	50nØ	5.0Ø	10mØ	15 △	80uØ	750 Ø	5.0u	12p$Ø	PE	TO39	AØ
17	2N1409A	800m	230M		§J	30	25 §	4.0	500m	10uØ	10Ø	150m	45				35pØ	PL△	TO5	A
18	2N1410A†	800m	230M		§J	45	30 §	4.0	500m	10uØ	10Ø	150m	60 †				12p	ME	TO5	A
19#	BFY51ØT	800m	230M§	4.0m	§J	60	30	6.0	1.0	50nØ	5.0Ø	10mØ	45 △	80uØ	750 Ø	5.0u	12p$Ø	PE	TO39	AØ
20	2N2217	800m	250M§△	5.3m	§J	60	30	5.0	800m	.01uØ	10Ø	1.0mØ	12 †△				8pØ		TO5	AØ
21	2N2218	800m	250M§△	5.3m	§J	60	30	5.0	800m	.01uØ	10Ø	1.0mØ	25 †△				8pØ		TO5	AØ
22	JAN2N2218†	800m	250M§△	5.2m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	25 △				8.0pØ		TO5	AØ
23	2N2218A†	800m	250M§△	5.3m	§J	75	40	6.0	800m	10nØ	10Ø	1.0mØ	30 △	15uØ	3.5kØ	5.0 Ø	8.0pØ	Ø	TO5	AØ
24	JAN2N2218A†	800m	250M§△	5.2m	§S	75	50	6.0	800m	10nØ	10Ø	1.0mØ	30 △				8.0pØ		TO5	AØ
25	2N2219	800m	250M§△	5.3m	§J	60	30	5.0	800m	.01uØ	10Ø	1.0mØ	50 †△				8pØ		TO5	AØ
26	JAN2N2219†	800m	250M§△	5.2m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 △				8.0pØ		TO5	AØ
27	JAN2N2219A†	800m	250M§△	5.2m	§S	75	50	6.0	800m	10nØ	10Ø	1.0mØ	50 △				8.0pØ		TO5	AØ
28	2N2224	800m	250M§△	5.3m	§J	65	40	5.0	500m	10nØ	10Ø	100uØ	35 †△#				8.0pØ	△	TO5	AØ
29	2N2537†	800m	250M§△	4.5m	§J	60	30	5.0	800m	.25uØ	10Ø	1.0mØ	20 †△				8pØ		TO5	AØ
30	2N2538†	800m	250M§△	4.5m	§J	60	30	5.0	800m	.25uØ	10Ø	1.0mØ	30 †△				8pØ		TO5	AØ
31♦	2N2787†	800m	250M§△	4.6m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	30 △	200nØb	35 Ø	15 Ø	8.0pØ		TO5	AØ
32♦	2N2788†	800m	250M§△	4.6m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	75 △	200nØb	35 Ø	2.0 Ø	8.0pØ		TO5	AØ
33♦	2N2789†	800m	250M§△	4.6m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	150 △	200nØb	35 Ø	2.5 Ø	8.0pØ		TO5	AØ
34	2N2846†	800m	250M§△	4.5m	§J	60	30 *	5.0		.20u§	10Ø	150mØ	30 †△#				8pØ		TO5	AØ
35	2N2848†	800m	250M§△	4.5m	§J	60	20 *	5.0		.20u§	10Ø	150mØ	40 †△#				8pØ		TO5	AØ
36	2N3015†	800m	250M§△	4.5m	§J	60	30 *	5.0		.20u§	10Ø	150mØ	30 †#△				8pØ		TO5	AØ
37	2N3299†	800m	250M§△	4.5m	§J	60	30	5.0	500m	.01u§	10Ø	.10mØ	20 △				8pØ		TO5	AØ
38	2N3300†	800m	250M§△	4.5m	§J	60	30	5.0	500m	.01u§	10Ø	10mØ	35 △				8pØ		TO5	AØ
39	2N3326†	800m	250M§△	5.3m	§J	60	45	5.0	800m	.01uØ	10Ø	10mØ	35 †△				8pØ		TO5	AØ
40	2N3512†	800m	250M§△	4.5m	§S	60	35	5.0			1.0Ø	500mØ	10 †#△				10pØ		TO5	AØ
41	2N3678†	800m	250M§△	4.5m	§J	75	55	6.0	800m	.01uØ	10Ø	150mØ	40 †#△				8pØ		TO5	AØ
42	2N4046†	800m	250M§△	4.5m	§J	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †#Ø				12pØ		TO5	AØ
43	2N4047†	800m	250M§△	4.5m	§J	80	50	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †#Ø				10pØ		TO5	AØ
44	2N4960†	800m	250M§△	4.5m	§J	60	60	6.5	1	.01uØ	10Ø	1.0mØ	60 †△				15p$		TO39	AØ
45	2N4962†	800m	250M§△	2.9m	§J	60	60	6.5	1	.01uØ	10Ø	1.0mØ	60 †△				15p$		TO18	AØ
46#	BF322	800m	250M§	5.3m	§J	30	25	3.0	600m		10Ø	10mØ	300 †Ø*				6.0p	PE	TO39	AØ
47#	BFX17	800m	250M§△	4.5m	§J	60	40	6.0	1.0	2.0uØ	1.0Ø	100mØ	35 †△				12pØ	PE	TO5	Ø
48#	BFX96	800m	250M△§	4.5m	§J	60	30	5.0	800m	.01uØ	10Ø	150mØ	40 †△#				8pØ	PE	TO5	AØ
49#	BFX96A	800m	250M	4.5m	§	60	30	5.0		10n	10Ø	150mØ	40 †				8.0p	PE	TO39	A
50#	BFX97	800m	250M△§	4.5m	§J	60	30	5.0	800m	.01uØ	10Ø	150mØ	100 †△#				8pØ	PE	TO5	AØ
51#	BFX97A	800m	250M	4.5m	§	60	30	5.0		10n	10Ø	150mØ	100 †				8.0p	PE	TO39	A
52#	BFY52ØT	800m	250M§	4.0m	§J	40	20	6.0	1.0	50nØ	5.0Ø	10mØ	45 △	80uØ	750 Ø	5.0u	12p$Ø	PE	TO39	AØ
53	PT4816	800m	250M§	5.3m	§J	60	30	4.0		.05uØ	10Ø	10mØ	40 †△					PE	TO5	
54	UPI2217	800m	250M	5.3m	#J	65	30	5.0	800m	14mØ	10Ø	1.0mØ	18 †				8.0p		TO5	AØ
55	UPI2218	800m	250M	5.3m	#J	65	30	5.0	800m	14mØ	10Ø	1.0mØ	30 †				8.0p		TO5	AØ
56	UPI4046	800m	250M	4.5m	#J	60	35	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †				2.0p		TO5	AØ
57	UPI4047	800m	250M	4.5m	#J	70	40	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †				10p		TO5	AØ
58#	ZT600†	800m	250M§△	4.5m	§S	24	20	5.0	1.0 #	1.0uØ	1.0Ø	150mØ	50 †△				12pØ	PL	TO5	AØ
59	2N2219A†	800m	300M§△	5.3m	§J	75	40	6.0	800m	.01uØ	10Ø	1.0mØ	40 △	35uØ	8.0kØ	8 Ø	8pØ	Ø	TO5	AØ
60	2N3722†	800m	300M§△	4.5m	§J	80	60	6.0	500m	.50u§Ø	1.0Ø	10mØ	25 †#△				10pØ		TO5	AØ
61	2N3723†	800m	300M§△	4.5m	§J	100	80	6.0	500m	.50u§Ø	1.0Ø	10mØ	25 †#△				9pØ		TO5	AØ
62	2N3724†	800m	300M§△	4.6m	§J	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	60 †△#				12pØ		TO39	AØ
63	2N3725†	800m	300M§△	4.6m	§J	80	50	6.0	500m	1.7uØ	1.0Ø	100mØ	60 †△#				10pØ		TO39	AØ
64	2N5145§	800m	300M§△	4.5m	§J	50	30	6.0	500m	1.7uØ	1.0Ø	10mØ	30 †#△				12p$Ø	△	TO39	AØ
65	A5T5058	800m	300M§△	6.4m	§S	300	300 *	7.0	150m	50nØ	25Ø	30mØ	35 †△				10p$Ø	PE	X55	A
66	A6T5059	800m	300M§△	6.4m	§S	250	250 *	6.0	150m	50nØ	25Ø	30mØ	30 †△				10p$Ø	PE	X55	A
67	BC211A	800m	300M§	5.3m	§J	100	60	7.0	1.0	100n§	2.0Ø	500m	20 †△				8.0p	PL	TO39	AØ
68#	BC232M	800m	300M§	5.3m	§J	40	30	5.0	400m	100nØ	2.0Ø	50mØ	100 †△*				6.0p	PE	TO39	AØ
69	SE8010	800m	300M§△	4.5m	§J	100	60 *Ø	6.0	500m	.50u§	1.0Ø	100mØ	40 †#△				9p$Ø	DPE	TO39	AØ
70#	BSX30†	800m	330M§	4.5m	§J	60	30	5.0		200n§	10Ø	150mØ	63 †#				5.0p	DPE	TO5	Ø
71#	2SC97A†	800m	350M§	5.3m	§J	80	45	5.0	1	.50u§	1.0Ø	500mØ	40 †#△				10pØ	PE	TO39	AØ
72#	2SC319	800m	350M§△	5.3m	§J	40	20	4.0	300m	1.0uØ	10Ø	100mØ	20 †#△				10pØ	PE	TO33	
73#	2SC781	800m	350M§		§J	75	40	5.0	1	1.0uØ	10Ø	150mØ	80 †				11p	PE	TO5	
74#	BFR10†	800m	350M§		§J						10Ø	150mØ	60 †△				5.0p	PE	TO39	A
75#	BFY72	800m	350M§	3.4m	§J	50	28	5.0		20n§	10Ø	10mØ	90	55u	460	1.3	5.0p	DPE	TO5	Ø
76	2N2883	800m	400M§△	4.5m	§J	40	20	4.0	300m	.50uØ	10Ø	100mØ	20 †#△				10p	PE	TO5	AØ
77	2N2884	800m	400M§△	4.5m	§J	40	20	4.0	300m	.50uØ	10Ø	100mØ	20 †#△				10p	PE	TO5	AØ
78	2N5188†	800m	400M§△	4.5m	§S	60	25	5.0	1	.50uØ	.50Ø	150mØ	25 †△						TO39	AØ
79#	2SC138	800m	400M§	5.3m	§J	60	30	5.0	500m	1.0uØ	10Ø	30m	50				4.0p	PE	TO33	
80#	2SC138A	800m	400M§		§J	60	35	5.0	500m	1.0uØ	10Ø	30m	50				4.0p	PE	TO33	
81#	2SC139	800m	400M§	5.3m	§J	60	30	5.0	500m	1.0uØ	10Ø	30m	50				4.0p	PE	TO33	
82#	2SC320	800m	400M§△	5.3m	§J	40	20	4.0	500m	1.0uØ	10Ø	100mØ	20 †#△				10pØ	PE	TO33	
83#	2SC596	800m	400M§		§J	60	30	5.0	500m	.50uØ	10Ø	30m	50				6.0p	PE	TO33	
84#	BFW66†	800m	400M§	4.5m	§J	60	60	6.5		.01uØ	10Ø	150mØ	180 †#				11p	DPL	TO39	AØ
85#	BSS27†	800m	400M§	4.4m	§J	70	45	5.0	1.0	1.0u*	1.0Ø	150mØ	30 †△				8.0p$Ø		TO39	AØ
86#	BSS28†	800m	400M§	4.4m	§J	50	30	5.0	1.0	1.0u*	1.0Ø	150mØ	40 †△				8.0p$Ø		TO39	AØ
87#	BSS29†	800m	400M§	4.4m	§J	50	30	5.0	1.0	1.0u*	1.0Ø	150mØ	25 †△				8.0p$Ø		TO39	AØ
88#	BSV77†	800m	400M§		§J						1.0Ø	100mØ	60 †△				4.8p	PE	TO39	A
89#	BSV95†	800m	400M§		§J						1.0Ø	500mØ	20 †△				4.8p	PE	TO39	A
90#	BSY34†	800m	400M§	4.5m	§J	60	40	5.0	600m	70nØ	1.0Ø	100mØ	42 †				4.5p	PE	TO39	A
91#	BSX32†	800m	450M§	4.5m	§J	65	40	6.0	1.0	4.0uØ	1.0Ø	10mØ	60 †#				5.0p	DPE	TO5	Ø
92#	BSX59†	800m	475M§	4.5m	§J	70	45	5.0	1	.50uØ	1.0Ø	500mØ	25 †△				5.8p	PE	TO5	AØ
93#	BSX60†	800m	475M§	4.5m	§J	70	30	5.0	1	.50uØ	1.0Ø	500mØ	30 †△				5.8p	PE	TO5	AØ
94#	BSX61†	800m	475M§	4.5m	§J	70	45	5.0	1	.50uØ	1.0Ø	500mØ	25 †△				5.8p	PE	TO5	AØ
95#	2SC566	800m	500M§△		§J	50	40	4.0	300m	.20uØ	10Ø	100mØ	50 †#△				4pØ	PE	TO33	
96#	2SC654	800m	500M§△		§J	40	35	3.0	300m	.20uØ	15Ø	50m	40 △				3.5pØ	PE	TO33	
97#	2SC741	800m	500M§	4.5m	§J	40	40 §	3.0	300m	1.0uØ	10Ø	100mØ	30 †#				3p	PE	TO39	AØ
98▼#	2SC1315	800m	700M	5.3m	§J	35	18	4.5	500m	50uØ	10Ø	100mØ	50 †					PE	TO39	
99	2N5106§	800m	900M§Ø	4.5m	§J	60	30	5.0	500m	.01uØ	10Ø	150mØ	100 †#△				8p$Ø	△	TO39	A
100▼#	2SC1223	800m	1.3G	5.3m	§J	30	16	4.0	500m	50uØ	15Ø	30mØ	70 †					PE	TO39	
101▼#	2SC1324	800m	1.7G	5.3m	§J	35	25	4.0	150m	50uØ	15Ø	30mØ	70 †					PE	TO39	
102#	2SC1513	800m	1.8G§		§	40	25	3.0	300m		15Ø	30mØ	35 †△					EP	TO33	G
103#	2SC1457	800m	2.5G§	4.5m	§J	35	18	3.0	150m	100nØ	10Ø	50mØ	100 †				1.0p$	E	TO33	G
104▼#	BC300-4	850m		40mØ	§J	120	80	6.0		20nØ	10Ø	150mØ	40 △						TO39	
105▼#	BC300-5	850m		40mØ	§J	120	80	6.0		20nØ	10Ø	150mØ	70 △						TO39	
106▼#	BC300-6	850m		40mØ	§J	120	80	6.0		20nØ	10Ø	150mØ	120 △						TO39	
107▼#	BC301-4	850m		40mØ	§J	90	60	6.0		20nØ	10Ø	150mØ	40 △						TO39	
108▼#	BC301-5	850m		40mØ	§J	90	60	6.0		20nØ	10Ø	150mØ	70 △						TO39	
109▼#	BC301-6	850m		40mØ	§J	90	60	6.0		20nØ	10Ø	150mØ	120 △						TO39	
110▼#	BC302-4	850m		40mØ	§J	60	45	6.0		20nØ	10Ø	150mØ	40 △						TO39	

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] MAX. COLL. DISS. @25°C (W)	[2] fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1▼#	BC302-5	850m		40mØ	§J	60	45	6.0		20nØ	10Ø	150mØ	70 Δ						TO39
2▼#	BC302-6	850m		40mØ	§J	60	45	6.0		20nØ	10Ø	150mØ	120 Δ						TO39
3	2N2849-1	850m§	30k§Δ	66m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	100 †Δ#				125pØ	PE	TO5 A
4	2N2850-1†	850m§	30k§Δ	66m	§S	100	80	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	MT26 AØ
5	2N2851-1†	850m§	30k§Δ	66m	§S	100	80	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	TO5 AØ
6	2N2852-1†	850m§	30k§Δ	66m	§S	100	80	5.0	3.0		1.0Ø	1.0	20 †Δ#					PE	TO5 AØ
7	2N2853-1†	850m§	30k§Δ	66m	§S	60	40	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	TO5 AØ
8	2N2854-1	850m§	30k§Δ	66mØ	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	100 †Δ#				125pØ	PE	TO5 A
9	2N2855-1†	850m§	30k§Δ	66m	§S	60	40	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	TO5 AØ
10	2N2856-1†	850m§	30k§Δ	66m	§S	60	40	5.0	3.0		1.0Ø	1.0	20 †Δ#					PE	TO5 AØ
11	2N2849†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	100 †Δ#				125pØ		R61 Ø
12	2N2850†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61 Ø
13	2N2851†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61 Ø
14	2N2852†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	20 †Δ#				125pØ		R61 Ø
15	2N2853†	850m	30M§Δ	5.0m	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61 Ø
16	2N2854†	850m	30M§Δ	5.0m	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	100 †Δ#				125pØ		R61 Ø
17	2N2855†	850m	30M§Δ	5.0m	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61 Ø
18	2N2856†	850m	30M§Δ	5.0m	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	20 †Δ#				125pØ		R61 Ø
19	UPT011†	850m	40M§	40m	§J	200	150 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5 A
20	UPT012†	850m	40M§	40m	§J	250	200 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5 A
21	UPT013†	850m	40M§	40m	§J	300	250 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5 A
22	UPT014†	850m	40M§	40m	§J	350	300 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5 A
23	UPT015†	850m	40M§	40m	§J	400	350 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5 A
24	2849-1	850m	50.M§	5.0m	§A	100	80	5.0	3	10u§	1.0Ø	50mØ	90 †				60p	PL	TO5 AØ
25	2849-2	850m	50.M§	5.0m	§A	100	80	5.0	3	.10u§	1.0Ø	50mØ	90 †				60p	PL	MT26 AØ
26	2849-3	850m	50.M§	5.0m	§A	100	80	5.0	3	.10u§	1.0Ø	50mØ	90 †				60p	PL	MT32 AØ
27	UPT111†	850m	50M§	40m	§J	60	40 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
28	UPT112†	850m	50M§	40m	§J	80	60 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
29	UPT113†	850m	50M§	40m	§J	100	80 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
30	UPT114†	850m	50M§	40m	§J	120	100 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
31	UPT115†	850m	50M§	40m	§J	150	100 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
32	UPT211†	850m	70M§	40m	§J	60	40 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
33	UPT212†	850m	70M§	40m	§J	80	60 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
34	UPT213†	850m	70M§	40m	§J	100	80 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
35	UPT214†	850m	70M§	40m	§J	120	100 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
36	UPT215†	850m	70M§	40m	§J	150	100 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5 A
37#	BFX55	850m	500M§	4.5m	§J	60	40	3.5	400m	50nØ	5.0Ø	50mØ	160 †Ø				2.5p†	PE	TO39 A
38#	BSS45†	870m		5.0m	§J	85	80	6.0	5.0	500nØ	2.0Ø	500mØ	25 †Δ#				53p$	PE	TO39 A
39#	SE8001	870m	40M§Δ	5.0m	§J	60	30	5.0		.10uØ	1.0Ø	150mØ	20 †#Δ				25pØ	PE	TO5 AØ
40	SE8002	870m	40M§Δ	5.0m	§J	80	40	5.0		.01uØ	1.0Ø	150mØ	40 †#Δ				25pØ	PE	TO5 AØ
41#	BFY80	870m*Ø	50M§Δ	6.7m	§J	100	80 *	7.0	100m	500u	2.0Ø	15mØ	30 †Δ				8.0p	PE	TO18 AØ
42	2N699B	870m	60M§Δ		§J	120	80 *	7.0		10nØ	5.0Ø	1.0mØ	35 Δ	500nØb	30 Ø	1.2 Ø	15pØ		TO5 AØ
43#	BFX34†	870m	70M§Δ	5.0m	§J	120	60	6.0	5.0	10u§	2.0Ø	2.0 Ø	40 †Δ#				100p$Ø	PE	TO39 AØ
44#	BCW77-16†	870m	100M§Δ	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	250 †Ø				12p$Ø	PE	TO39 A
45#	BCW77-25†	870m	100M§Δ	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	400 †Ø				12p$Ø	PE	TO39 A
46#	BCW77-40†	870m	100M§Δ	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	630 †Ø				12p$Ø	PE	TO39 A
47#	BCW78-16†	870m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	250 †Ø				12p$Ø	PE	TO39 A
48#	BCW78-25†	870m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	400 †Ø				12p$Ø	PE	TO39 A
49#	BCW78-40†	870m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	630 †Ø				12p$Ø	PE	TO39 A
50#	BF186	875m	120M§	5.0m	§J	165	165 §	5.0	50m	4m*	20Ø	40mØ	50 †					PE	TO39 AØ
51	2N5702	880mØ		20m	§S	36	18	3.0	500m	1.0mΔ	5.0Ø	50mØ	15 †Δ				20pØ		TO39 AØ
52#	BSX45-6†	880m	50M§Δ	5.0m	§J		40	7.0	1.0	30n§	1.0Ø	100uØ	28 †				25p$Ø	PEØ	TO39 AØ
53#	BSX45-10†	880m	50M§Δ	5.0m	§J		40	7.0	1.0	30n§	1.0Ø	100uØ	40 †				25p$Ø	PEØ	TO39 AØ
54#	BSX45-16†	880m	50M§Δ	5.0m	§J		40	7.0	1.0	30n§	1.0Ø	100uØ	90 †				25p$Ø	PEØ	TO39 AØ
55#	BSX46-6†	880m	50M§Δ	5.0m	§J		60	7.0	1.0	30n§	1.0Ø	100uØ	28 †				25p$Ø	PEØ	TO39 AØ
56#	BSX46-10†	880m	50M§Δ	5.0m	§J		60	7.0	1.0	30n§	1.0Ø	100uØ	40				25p$Ø	PEØ	TO39 AØ
57#	BSX46-16†	880m	50M§Δ	5.0m	§J		60	7.0	1.0	30n§	1.0Ø	100uØ	90 †				25p$Ø	PEØ	TO39 AØ
58#	BSY81	900m	100M§	5.1m	§J	40	18	5.0	1.0	100nØ	10Ø	150mØ	40 †Δ				15pØ	PE	TO39 AØ
59#	BSY82	900m	100M§	5.1m	§J	40	18	5.0	1.0	100nØ	10Ø	150mØ	100 †Δ				15pØ	PE	TO39 AØ
60#	BSY83	900m	100M§	5.1m	§J	80	35	7.0	1.0	10nØ	10Ø	150mØ	40 †Δ				15pØ	PE	TO39 AØ
61#	BSY84	900m	100M§	5.1m	§J	80	35	7.0	1.0	10nØ	10Ø	150mØ	100 †Δ				15pØ	PE	TO39 AØ
62#	BSY85	900m	100M§	5.1m	§J	120	64	7.0	1.0	10nØ	10Ø	150mØ	40 †Δ				15pØ	PE	TO39 AØ
63#	BSY86	900m	100M§	5.1m	§J	120	64	7.0	1.0	10nØ	10Ø	150mØ	100 †Δ				15pØ	PE	TO39 AØ
64#	BSY58†	900m	400M§	4.5m	§J	50	25	5.0	600m	120n	1.0Ø	100mØ	42 †				4.5p	PE	TO39 A
65#	2SC1127	950m	28M§	10m	§S		180	8.0	100m	1.0uØ	5.0Ø	3.0mØ	30 †Δ				3.5pØ	EM†	u89 A
66	2N339	1.0 Ø			§J	55	55	1.0		1.0uØ				2.0uØb	30 Ø	3.0 Ø		G	TO11 A
67	2N340	1.0 Ø			§J	85	85	1.0		1.0uØ				2.0uØb	30 Ø	3.0 Ø		G	TO11 A
68	2N341	1.0 Ø			§J	125	85	1.0		1.0uØ				2.0uØb	30 Ø	3.0 Ø		G	TO11 A
69	2N342	1.0 Ø			§J	60	60	1.0		1.0uØ				2.0uØb	30 Ø	3.0 Ø		G	TO11 A
70	2N342A	1.0 Ø		8.0m	§J	85	85	1.0	60m	1.0uØ				2.0uØb	30 Ø	3.0 Ø			TO11 A
71	2N343	1.0 Ø			§J	60	60	1.0		1.0uØ				2.0uØb	30 Ø	3.0 Ø		G	TO11 A
72	2N343A	1.0 Ø		8.0m	§J	60	60	1.0	60m	1.0uØ				2.0uØb	30 Ø	3.0 Ø			TO11 A
73#	BCY65E†	1.0 *	250m§	2.2m	§J		45	7.0	100m	100n§Ø	5.0Ø	2.0mØ	500 Ø*	24u	3.6k	2.0	3.5p$	PE	TO18 AØ
74	JAN2N342	1.0 Ø	1.0MΔ	8.3m	§J	60	60	1.0	60m	1.0uØ	10	5.0m	9.0 Δ	2.0uØb	30 Ø	3.0 Ø			TO11 A
75	JAN2N342A	1.0 Ø	1.0MΔ	8.3m	§J	85	85	1.0	60m	1.0uØ	10	5.0m	9.0 Δ	2.0uØb	30 Ø	3.0 Ø			TO11 A
76	JAN2N343	1.0 Ø	1.0MΔ	8.3m	§J	60	60	1.0	60m	1.0uØ	10	5.0m	28 Δ	2.0uØb	30 Ø	3.0 Ø			TO11 A
77#	2SC802†	1.0 Ø	180M§	6.6m	§J	60	35	4.0	500m	5.0uØ	4.0Ø	150mØ	30 †				5.0p	PL	TO5
78	BF140R,S	1.0 Ø	180M§	5.5m	§S	135		3.0		1.0uØ	10Ø	10mØ	40 †					PL	ZA29 Ø
79	BF155R,S	1.0 Ø	180M§	5.5m	§S	155		3.0		1.0uØ	10Ø	10mØ	40 †					PL	ZA29 Ø
80#	BCY58A†	1.0 Ø*	250M§	2.2m	§J	32	32	7.0	200m	10n§	5.0Ø	2.0mØ	200	18u	4.5kØ	1.5	3.5p$	PEØ	TO18 AØ
81#	BCY58B†	1.0 Ø*	250M§	2.2m	§J	32	32	7.0	200m	10n§	5.0Ø	2.0mØ	260	24u	6.0kØ	2.0	3.5p$	PEØ	TO18 AØ
82#	BCY58C†	1.0 Ø*	250M§	2.2m	§J	32	32	7.0	200m	10n§	5.0Ø	2.0mØ	330	30u	8.5kØ	2.0	3.5p$	PEØ	TO18 AØ
83#	BCY58D†	1.0 Ø*	250M§	2.2m	§J	32	32	7.0	200m	10n§	5.0Ø	2.0mØ	520	50u	12kØ	3.0	3.5p$	PEØ	TO18 AØ
84	2N3833	1.0 Ø	1.0G§Δ	6.6m	§S	25	15	1.0	100m	20n§	12Ø	30mØ	20 †#				1.7p$		X60 §
85	2N3834	1.0 Ø	1.0G§Δ	6.6m	§S	25	15	1.0	100m	20n§	12Ø	30mØ	20 †#				1.7p$		X60 §
86	2N3835	1.0 Ø	1.0G§Δ	6.6m	§S	25	15	1.0	100m	20n§	12Ø	30mØ	20 †#				1.7p$		X60 §
87	KD4002	1.0 #	1.2G§Δ	6.6mØ	§J	40	25	2.5	120M	1.0uØ	6.0Ø	50mØ	20 †Δ				3.5pØ		X72 V
88	KD4001	1.0 #	1.5G§Δ	6.6mØ	§J	40	25	2.5	120m	1.0uØ	6.0Ø	50mØ	20 †Δ				3.5pØ		X72 V
89	KD4501	1.0 Ø	1.5G	5.5m	§J	30	12	2.5	120m	300nØ	10	50mØ	30 †Δ				3.5pØ		X72 U
90	KD4502	1.0 Ø	1.5G	5.5m	§J	25	12	2.5	120m	300nØ	10	50mØ	30 †Δ				3.5pØ		X72 U
91♦	MS12H	1.0 Ø	2.0G§	5.7mØ	§S	30	20	1.0	200m	100nØ	5.0Ø	10mØ	40 †Δ					Ø	TO72 G
92♦	MS12JE	1.0 Ø	2.0G§	5.7mØ	§S	30	20	1.0	200m	100nØ	5.0Ø	10mØ	40 †Δ					Ø	u118 RØ
93♦	MS12TE	1.0 Ø	2.0G§	5.7mØ	§S	30	20	1.0	200m	100nØ	5.0Ø	10mØ	40 †Δ					Ø	X60 CØ
94♦	MS175CE	1.0 Ø	2.5G§	5.7mØ	§S	30	20	1.0	100m	100nØ	9.0Ø	5.0mØ	20 †Δ				1.2p$Ø	Ø	X138 R
95♦	MS175H	1.0 Ø	2.5G§	5.7mØ	§S	30	20	1.0	100m	100nØ	9.0Ø	5.0mØ	20 †Δ				1.2p$Ø	Ø	TO72 G
96♦	MS175JE	1.0 Ø	2.5G§	5.7mØ	§S	30	20	1.0	100m	100nØ	9.0Ø	5.0mØ	20 †Δ				1.2p$Ø	Ø	u118 RØ
97♦	MS175TE	1.0 Ø	2.5G§	5.7mØ	§S	30	20	1.0	100m	100nØ	9.0Ø	5.0mØ	20 †Δ				1.2p$Ø	Ø	X60 CØ
98♦	MS175YE	1.0 Ø	2.5G§	5.7mØ	§S	30	20	1.0	100m	100nØ	9.0Ø	5.0mØ	20 †Δ				1.2p$Ø	Ø	X139 F
99♦	MS173CE	1.0 Ø	3.0G§	5.7mØ	§S	30	20	1.0	50m	100nØ	10Ø	3.0mØ	20 †Δ				800f$Ø	Ø	X138 R
100♦	MS173H	1.0 Ø	3.0G§	5.7mØ	§S	30	20	1.0	50m	100nØ	10Ø	3.0mØ	20 †Δ				800f$Ø	Ø	TO72 G
101♦	MS173JE	1.0 Ø	3.0G§	5.7mØ	§S	30	20	1.0	50m	100nØ	10Ø	3.0mØ	20 †Δ				800f$Ø	Ø	u118 RØ
102♦	MS173TE	1.0 Ø	3.0G§	5.7mØ	§S	30	20	1.0	50m	100nØ	10Ø	3.0mØ	20 †Δ				800f$Ø	Ø	X60 CØ
103♦	MS173YE	1.0 Ø	3.0G§	5.7mØ	§S	30	20	1.0	50m	100nØ	10Ø	3.0mØ	20 †Δ				800f$Ø	Ø	X139 F
104♦	MS510*	1.0 Ø	3.0G§	5.7mØ	§S	35	20	1.0	50m	100nØ	5.0Ø	3.0mØ	50 †Δ					Ø	u118 RØ
105♦	MS1010*	1.0 Ø	3.5G§	5.7mØ	§S	35	20	1.0	50m	100nØ	5.0Ø	3.0mØ	50 †Δ					Ø	u118 RØ
106#	2SC1556	1.2	3.5G§		§J	30	15	3.0	120m	1.0uØ	5.0Ø	50mØ	100 †				2.3pØ	EP	TO39
107#	2SC1554	1.2	4.0G§		§J	30	15	3.0	120m	1.0uØ	5.0Ø	50mØ	100 †				2.3pØ	EP	X141 C
108#	2SC1555	1.2	4.0G§		§J	30	15	3.0	120m	1.0uØ	5.0Ø	50mØ	100 †				2.3pØ	EP	MT110 C
109#	2SC1569	1.5	100M§		§J	300	300	5.0	150m	100nØ	10Ø	50mØ	100 †				6.5pØ	D	
110#	2SC1557	3.0	3.0G§		§J	40	20	3.5	180m	1.0uØ	5.0Ø	50mØ	150 †				3.0pØ	EP	TO39

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M P MAX	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1#	2SC614	7.5 Ø	200M§		§J	80		4.0	1.5	1.0u	10Ø	250mØ	80 †				12p	PE	TO39	
2#	2SC615	7.5 Ø	200M§		§J	30		4.0	1.5	1.0u	10Ø	250mØ	80 †				12p	PE	TO39	

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	MEM517B		5.0Δ		30	25				.05n			1.2mΔ							*	TO5	
2	VCR3P		7.0	10		15				20n						200 %				#	TO72	DG
3	VCR5P		7.0	10		15				10n						900 %			150S	#	TO72	DG
4	VCR6P		4.0	10		15				50n						900 %			150S	#	TO18	DA
5	2N3573	6.0mt	2.0t	10		25		1.0m	.10m	.60n	0.0	10	.10m	.30m	4.0u%		6.0p#	2.0m	200S		TO72	DG
6	2N3698	7.5mt	1.1	20		30	.25m	50m	.25mΔ	.10n	0.0	20	.25m	.75m	3.0u%		5.0p#	2.0m	200S	Ø	TO72	DG
7	2N3277	12.mt	5.0t	10	25	25	.50m	10m		.40n	0.0	10	.10m		2.0u	500k	4.5p#		200S		TO33	DG
8	2N3574	18mt	2.0t	10		25		1.0m	380u	600p	0.0	10	200u	600u	10u%		6.0p#	2.0m	200S		TO72	DG
9	2N3328	20mt	6.0t	10		20		1.0m	1.0m	1.0n	0.0	10	.10m				4p#%	2.0m	200S		TO72	DG
10	2N3333Ø	20mt	1.6t	10	20	20		10m	1.0m	10n	0.0	10	.60m	1.8m	15u		30p#	2.0m	200S		L21c	
11	2N3334Ø	20mt	1.6t	10	20	20		10m	1.0m	10n	0.0	10	.60m	1.8m	15u		30p#	2.0m	200S		L21c	
12	2N3335Ø	20mt	1.6t	10	20	20		10m	1.0m	10n	0.0	10	.60m	1.8m	15u		30p#	2.0m	200S		L21c	
13	2N3336Ø	20mt	1.6t	10	20	20		10m	1.0m	10n	0.0	10	.60m	1.8m	15u		30p#	2.0m	200S		L21c	
14	2N3278	22.mt	8.0t	10	25	25	.90m	10m		.40n	0.0	10	.15m		10u	100k	4.5p#		200S		TO33	DG
15	2N3575	40mt	4.0t	10		25		1.0m	1.0m	.60n	0.0	10	.30m	.90m	20u%		6.0p#	2.0m	200S		TO72	DG
16	2N3696	45mt	3.2	20		30	1.5m	50m	1.5mΔ	.10n	0.0	20	.75m	1.2m	15u%		5.0p#	2.0m	200S	Ø	TO72	DG
17	UC420	75mt	2.5	20		30Δ			2.5mΔ	.01n	0.0	20	1.0m			.70k	8.0p		200J	PE	TO72	DG
18	MEM550C	85m	6.0t	6.0*	25	25	25m	100u	10n	1.0n	10	10	500u			250 Δ	4.0pt	1.1m	100J	§*	L53	
19	MEM551C*	85m	6.0t	6.0*	25	25	25m		10n	10p	10	10	500u			250 Δ	4.0pt	1.1m	100J	§*	L54	
20	3N178	100m	5.5Δ	10*	75	75Δ	20m	1.0m	3.0m#							900	3.5p#	666u	200S	Ø*	TO72	DM
21	3N179	100m	6.0Δ	10*	60	60Δ	20m	1.0m	3.0m#							1.0k	4.5p#	666u	200S	Ø*	TO72	DM
22	3N180	100m	6.0Δ	10*	40	40Δ	20m	1.0m	3.0m#							1.2k	5.0p#	666u	200S	Ø*	TO72	DM
23	MEM556	100m	6.0t	6.0*	50	50	20m	100u	1.0n	1.0n	5.0Ø	20	800u	950uΔ		700 Δ	500ft	1.0m	125J	*	TO72	DM
24	MEM556C	100m	6.0t	6.0*	45	45	20m	100u	10n	1.0n	5.0Ø	20	700u	950uΔ		700 Δ	700ft	1.3m	100J	*	TO72	DM
25	MEM550	112m	6.0t	6.0*	30	30	25m	100u	10n	1.0n	10	10	500u			250 Δ	1.1pt*	1.1m	125J	§*	L53	
26	MEM550F	112m	6.0t	6.0*	30	30	25m	100u	10n	1.0n	10	10	500u			250 Δ	1.1pt	1.1m	125J	§*	L84	
27	MEM551*	112m	6.0t	*	30	40	25m		10n	4.0p	10	10	500u			250 Δ	1.1pΔ*	1.1m	125J	*	L54	
28	MEM954▼	112m	5.0Δ	5.0*	30	30	50m	100u	1.0n	300p	.50Ø	10	500u			100 Δ		1.1m	125J	*	L53	
29	MEM954A▼	112m	5.0Δ	5.0*	30	30	50m	100u	1.0n	100p	.50Ø	10	500u			100 Δ		1.1m	125J	*	L53	
30	MEM954B▼	112m	5.0Δ	5.0*	30	30	50m	100u	300p	100p	.50Ø	10	500u			100 Δ		1.1m	125J	*	L53	
31	MEM955▼	112m	5.0Δ	5.0*	35	40	50m		1.0n	4.0p	.50Ø	10	500u			100 Δ		1.1m	125J	*	L54	
32	MEM955A▼	112m	5.0Δ	5.0*	35	40	50m		1.0n	4.0p	.50Ø	10	500u			100 Δ			125J	*	L54	
33	MEM955B▼	112m	5.0Δ	5.0*	35	40	50m		300p	2.0p	.50Ø	10	500u			100 Δ		1.1m	125J	*	L54	
34	3N151▼	162m	6.0Δ	10*	30	30Δ	25m		3.0m		2.0Ø	10	500u	3.0n	120u		12p#	1.6m	150S	*	L53	
35	MEM511C	175m	6.0t	6.0*	25	25	50m	100u	10n	1.0n	10	10	1.0m			150 Δ	4.0pt	2.3m	100J	Δ*	TO72	DM
36	MEM520C	175m	6.0t	6.0*	25	25	50m		10n	3.0p	10	10	1.0m			150 Δ	4.0pt	2.3m	100J	*	TO72	DM
37	UC410	180mt	4.0	20		30Δ			6.0mΔ	10p	0.0	20	2.2m			500	8.0p		200J	PE	TO72	DG
38	2N4342	200m	5.5t	10Δ	25Δ	25Δ		50m	12mΔ	10n	0.0	10	2.0m	6.0m	75u	700 †	20p#	2.0m	125J	Ø	R124b	DB
39	2N4343	200m	10t	10Δ	25Δ	25Δ		50m	30mΔ	10n	0.0	10	4.0m	8.0m	100u	350 †	20p#	2.0m	125J	Ø	R124b	DB
40	2N4360	200m	10t	10Δ	20Δ	20Δ		50m	30mΔ	10n	0.0	10	2.0m	8.0m	100u	700 †	20p#	2.0m	125J	Ø	R124b	DB
41	2N5033	200m	2.5t	10Δ	20	20		50m	3.5mΔ	10n	0.0	10	1.0m	5.0m	20u%	1.3kt	25p#	2.0m	125J		R124ba	DB
42	2N5265	200m	3.0t	15	60	60	20m	10m	1.0m	2.0n	0.0	15	.90m	2.7m	75u		7.0p#	1.3m	200S	#Ø	TO72	DH
43	2N5266	200m	3.0t	15	60	60	20m	10m	1.6m	2.0n	0.0	15	1.0m	3.0m	75u		7.0p#	1.3m	200S	#Ø	TO72	DH
44	2N5267	200m	6.0t	15	60	60	20m	10m	3.0m	2.0n	0.0	15	1.5m	3.5m	75u		7.0p#	1.3m	200S	#Ø	TO72	DH
45	2N5268	200m	6.0t	15	60	60	20m	10m	5.0m	2.0n	0.0	15	2.0m	4.0m	75u		7.0p#	1.3m	200S	#Ø	TO72	DH
46	2N5269	200m	8.0t	15	60	60	20m	10m	8.0m	2.0n	0.0	15	2.2m	4.5m	75u		7.0p#	1.3m	200S	#Ø	TO72	DH
47	2N5270	200m	8.0t	15	60	60Δ	20m	10m	14mΔ	2.0n	0.0	15	2.5m	5.0m	75u%		7.0p#	1.3m	200S	#Ø	TO72	DG
48	2N5797	200m	4.0t	15		40		10m	100uΔ	3.0n	0.0	15	60m	225mt	1.0u%		5.0p#	2.0m	150S	#	TO92	DD
49	2N5798	200m	6.0t	15		40		10m	400uΔ	3.0n	0.0	15	100m	400mt	2.5u%		5.0p#	2.0m	150S	#	TO92	DD
50	2N5799	200m	8.0t	15		40		10m	1.0mΔ	3.0n	0.0	15	160m	500mt	5.0u%		5.0p#	2.0m	150S	#	TO92	DD
51	2N5800	200m	9.0t	15		40		10m	2.0mΔ	3.0n	0.0	15	250m	700mt	10u%		5.0p#	2.0m	150S	#	TO92	DD
52#	2SJ15	200m	6.0	10				10m	1.5m	50n	0.0	12	.20m	3.0m			6.0p*	.75m	175J		TO18	DBØ
53#	2SJ16	200m	6.0	10				10m	1.5m	10n	0.0	12	.20m	3.0m			6.0p*	.75m	175J		TO18	DBØ
54#	BF320A	200m	8.0	10	15	15		10m	4.5m	20n	0.0	10	800u	5.0m	200u%		32p	2.0m	150S	PEt	TO92	DA
55#	BF320B	200m	8.0	10	15	15		10m	8.5m	20n	0.0	10	800u	5.0m	200u%		32p	2.0m	150S	PEt	TO92	DA
56#	BF320C	200m	8.0	10	15	15		10m	15m	20n	0.0	10	800u	5.0m	200u%		32p	2.0m	150S	PEt	TO92	DA
57	FT3820	200m	8.0t	10	20	20		10m	15m	20n	0.0	10	.80m	5.0m	200u		32p#	2.0m	125J	DPL	R124b	DB
58	HEP803-RT	200m		40		40	20m		7.0m	2.0n			1.0k						175J		TO72	DG
59	MEM560C	200m	3.5Δ	3.5*	30	30	50m	100u	10n	1.0n	5.0Ø	10	2.0m	3.0mΔ		175 Δ	11p#	2.6m	100J	*	TO72	DM
60	MEM809	200m	5.0Δ	5.0*	30	30	50m	100u	10n	1.0n	5.0Ø	10	2.0m	3.0mΔ		300 %	11p#		85J	*	R168	EK
61	MEM816	200m	5.0Δ	10*	30	30	50m	100u	10n	1.0n	5.0Ø	10	2.0	3.0mΔ		300 %	11p#	3.3m	85J	Δ*	u130	
62	MFE3003	200mΔ	4.0Δ	10*	15	20	30m		10n	100p						200 %	5.0p#	1.3m	175J	*Ø	TO72	DW
63	MFE4007	200m	3.0t	15Δ	40	40	20m	10m	1.0m	2.0n	0.0	15	900u%	2.7m%	75u%		7.0p#	1.3m	175J	#	TO72	DR
64	MFE4008	200m	3.0t	15Δ	40	40	20m	10m	1.6m	2.0n	0.0	15	1.0m%	3.0m%	75u%		7.0p#	1.3m	175J	#	TO72	DR
65	MFE4009	200m	6.0t	15Δ	40	40	20m	10m	3.0m	2.0n	0.0	15	1.5m%	3.5m%	75u%		7.0p#	1.3m	175J	#	TO72	DR
66	MFE4010	200m	6.0t	15Δ	40	40	20m	10m	5.0m	2.0n	0.0	15	2.0m%	4.0m%	75u%		7.0p#	1.3m	175J	#	TO72	DR
67	MFE4011	200m	8.0t	15Δ	40	40	20m	10m	8.0m	2.0n	0.0	15	2.2m%	4.5m%	75u%		7.0p#	1.3m	175J	#	TO72	DR
68	MFE4012	200m	8.0t	15Δ	40	40	20m	10m	14m	2.0n	0.0	15	2.5m%	5.0m%	75u%		7.0p#	1.3m	175J	#	TO72	DR
69	3N167t	225m	6.0Δ	10*	30	30Δ	50m	100u	1.0u							20 %	35p#	2.2m	150S	*Ø	TO72	DM
70	3N168t	225m	6.0Δ	10*	25	25Δ	50m	100u	1.0u							40 %	35p#	2.2m	150S	*Ø	TO72	DM
71#	3SJ11A	225m	3.5t	*	30	40	50m		10nΔ	10p	1.0Ø	10	500u			500 †	8.0p#*	3.0m	150S	PL*	TO72	DR
72	M103	225m	5.5Δ	*	30	30	50m	100u		100p						130 %	500fØ	2.3m	125J	*Δ	TO72	DM
73	M104	225m	6.0Δ	*	30	30	50m	100u		100p						1.2k	500ft	2.3m	125J	*	TO72	DM
74	M113	225m	3.0Δ	*	30	30	50m	100u		100p						200 †	300fØ	2.2m	125J	*	TO72	DM
75	M114	225m	4.5Δ	*	40	40	50m	100u	8.0m	100p	10	10	2.0m			240 %	4.0pt	2.2m	125J	Δ*	TO72	DM
76	M119	225m	6.0Δ	*	75	80	50m	100u	800p	250p						90 %	8.0pt	2.2m	125J	Δ*	TO72	DM
77	M511	225m	6.0Δ	*	30	30	50m	100u	6.0 *%	1.0n	10	10	1.0m			150	4.0pt	2.2m	125J	*	TO72	DM
78	M511A	225m	6.0Δ	*	30	30	50m	100u	10n	1.0n	10	10	1.0m			300 %	3.0pt	2.2m	125J	*	TO72	DM
79	M517	225m	6.0Δ	*	30	30	50m	100u		150p						50 %	800fØ	2.2m	125J	*Δ	TO72	EG
80	MEM511	225m	6.0t	6.0*	30	30	50m	100u	10n	1.0n	10	10	1.0m			150 Δ	3.0pt	2.2m	125J	Δ*	TO72	DM
81	MEM520	225m	6.0t	6.0*	30	40	50m		10n	3.0p	10	10	1.0m			150 Δ	3.0pt	2.2m	125J	*	TO72	DM
82	MEM561	225m	3.0Δ	3.0*	30	30Δ	50m		5.0n	2.0p	10Ø	10	2.0m	3.5mΔ		150 Δ	9.0p#	2.2m	125J	*	TO72	DM
83	MEM561C	225m	3.0Δ	3.0*	25		50m		10n	3.0p	10Ø	10	2.0m	3.5mΔ		150 Δ	9.0p#	2.2m	125J	*	TO72	DM
84	2N4353t	250m	5.0Δ	10*	30	30	100m	10u	5.0n		0.0	10	1.0m	4.0m	350u	300 †	12p#	2.0m	125S		TO72	DM
85	2N2606	300m	4.0	5.0		30			.50m	1.0n	0.0	5.0	.11m				6.0p#	2.0m	200S		TO18	DAØ
86	JAN2N2606	300m	4.0t	5.0		30			500u	750p	0.0	5.0	110u	600u			6.0p#	1.7m	200S	#	TO18	DAØ
87	2N2607	300m	4.0	5.0		30			1.5m	3.0n	0.0	5.0	.33m				10p#	2.0m	200S		TO18	DAØ
88	JAN2N2607	300m	4.0t	5.0		30			1.5m	2.2n	0.0	5.0	330u	1.0m			10p#	1.7m	200S	#	TO18	DAØ
89	2N2608	300m	4.0	5.0		30			4.5m	10n	0.0	5.0	1.0m				17p#	2.0m	200S		TO18	DAØ
90	JAN2N2608	300m	4.0t	5.0		30			4.5m	7.5n	0.0	5.0	1.0m	2.5m			17p#	1.7m	200S	#	TO18	DAØ
91	2N2609	300m	4.0	5.0		30			10m	30n	0.0	5.0	2.5m				30p#	2.0m	200S		TO18	DAØ
92	JAN2N2609	300m	4.0t	5.0		30			10m	22n	0.0	5.0	2.5m	6.2m			30p#	1.7m	200S	#	TO18	DAØ
93	2N2841	300m	1.7	5.0		30			13m	1.0n	0.0	5.0	.06m				6p#%	2.0m	200S		TO18	DAØ
94	2N2842	300m	1.7	5.0		30			.33m	3.0n	0.0	5.0	.18m				10p#%	2.0m	200S		TO18	DAØ
95	2N2843	300m	1.7	5.0		30			1.0m	10n	0.0	5.0	.54m				17p#%	2.0m	200S		TO18	DAØ
96	2N2844	300m	1.7	5.0		30			2.2m	30n	0.0	5.0	1.4m				30p#%	2.0m	200S		TO18	DAØ
97	2N3112	300m	4.0	5.0		20	10m	10m	.18mΔ	.05n	0.0	5.0	.05m	.12m			3.5p#	2.0m	200S		TO18	DG§
98	2N3329	300m	5.0t	15		20		10m	3.0m	10n	1Ø	10	1.0m	2.0m	20u%	1.0k	20p#%	2.0m	200S		TO72	DG
99	JAN2N3329	300m	5.0t	15		20		10m	3.0m	10n		10	1.0m	2.0m	20u	1.0k	20p#	2.0m	200S	#Ø	TO72	DG
100	2N3330	300m	6.0t	15		20		10m	6.0m	10n	2Ø	10	1.5m	3.0m	40u%	.80k	20p#%	2.0m	200S		TO72	DG
101	JAN2N3330	300m	6.0t	15		20		10m	6.0m	10n		10	1.5m	3.0m	40u	800	20p#	2.0m	200S	#Ø	TO72	DG
102	2N3331	300m	8.0t	15		20		10m	15m	10n	5Ø	10	2.0m	4.0m	100u%	.60k	20p#%	2.0m	200S		TO72	DG
103	JAN2N3331	300m	8.0t	15		20		10m	15m	10n		10	2.0m	4.0m	100u	600	20p#	2.0m	200S	#Ø	TO72	DG
104	2N3332	300m	6.0t	15		20		10m	6.0m	10n	1Ø	10	1.0m	2.2m	20u%		20p#%	2.0m	200S		TO72	DG
105	JAN2N3332	300m	6.0t	15		20		10m	6.0m	10n		10	1.0m	2.2m	20u	800	20p#	2.0m	200S	#Ø	TO72	DG
106	2N3376	300m	5.0	5.0		30	100m	50m	6m%	3.0n	0.0	10	.80m	2.3mt		1.5kt	3.0pΔ	2.0m	200S		TO72	DG
107	2N3378	300m	5.0	5.0		30	100m	50m	6m%	3.0n	0.0	10	1.5m	2.3mt		.75kt	3.0pΔ	2.0m	200S		TO72	DG
108	2N3380	300m	9.5	5.0		30	100m	50m	20m%	3.0n	0.0	10	1.5m	3mt		.60kt	3.0pΔ	2.0m	200S		TO72	DG
109	2N3382	300m	5.0	5.0		30	100m	50m	30m%	15n	0.0	10	4.5m	13mt		.30kt	6.0pΔ	2.0m	200S		TO72	DG
110	2N3384	300m	5.0	5.0		30	100m	50m	30m%	15n	0.0	10	7.5m	13mt		.18kt	6.0pΔ	2.0m	200S		TO72	DG

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1	2N3386	300m	9.5	5.0		30	100m	50m	50m%Δ	15n	0.0	10	7.5m	15m†		.15kt	6.0pΔ	2.0m	200S		TO72	DG
2	2N3578	300m	4.0†	5.0		20	50m	50m	4.5m		0.0	5.0	1.2m	3.5m	15u%		65p%	2.0m	200S		TO18	DAØ
3	2N3909	300m	8.0†	10Δ	20	20		10m	15m	10n	0.0	10	1.0m	5.0m	100u%		32p#	2.0m	200S		TO72	DG
4	2N3909A	300m	8.0	10	20	20			15m	10n	0.0	10	2.2m	5.0m	100u		9p#	2.0m	200S	#	TO72	DG
5	2N3993	300m		Δ	25	25		10m	10m		0.0	10	6.0m	12m			16p#	2.0m	200S		TO72	DG
6	2N3993A	300m			25	9.5			10mΔ%	1.2n	0.0	10	7.0m	12m		.15k%	12p#	2.0m	200S	Ø#	TO72	DG
7	2N3994	300m		Δ	25	25		10m	2.0m		0.0	10	4.0m	12m			16p#	2.0m	200S		TO72	DG
8	2N3994A	300m			25	5.5			2.0mΔ%	1.2n	0.0	10	5.0m	10m		.30k%	12p#	2.0m	200S	Ø#	TO72	DG
9	2N4090	300m	3.0†	10Δ	30	20		10m	2.5m	.10n		10	.50m	.90m	20u		10p#	1.7m	200C	Ø	TO72	DH
10	2N4352†	300m	5.0Δ	10*	30	30	30m		10n	10p						600	5.0p#	1.7m	200S	Ø	TO72	DR
11	2N4381	300m	5.0†	15Δ	25	25			12m	1.0n	0.0	15	2.0m	6.0m	75u%	.70k%	20p#	2.0m	175J		TO18	DG
12	2N4382	300m	9.0†	15Δ	25	25			30m	1.0n	0.0	15	4.0m	8.0m	100u%	.35k%	20p#	2.0m	175J		TO18	DG
13	2N5020	300m	1.5†	15Δ	25	25		50m	1.2m	1.0n	0.0	15	1.0m	3.5m	20u	1.0k†	25p#	2.0m	175J	Ø	TO18	DAØ
14	2N5021	300m	2.5†	15Δ	25	25		50m	3.5m	1.0n	0.0	15	1.5m	5.0m	20u	1.3k†	25p#	2.0m	175J	Ø	TO18	DAØ
15	2N5471	300m	4.0†	15		40			.06mΔ%	.50n	0.0	15	.06m	.18m†	1.0u*		5p#	2.0m	200S	Ø#	TO72	DG
16	2N5472	300m	4.0†	15		40			120uΔ%	500p	0.0	15	90u	225u†	1.0u*		5.0p#	2.0m	200S	#Ø	TO72	DG
17	2N5473	300m	6.0†	15		40			.25mΔ%	.50n	0.0	15	.12m	.30m†	2.5u*		5p#	2.0m	200S	Ø#	TO72	DG
18	2N5474	300m	7.0†	15		40			.5mΔ%	.50n	0.0	15	.16m	.40m†	2.5u*		5p#	2.0m	200S	Ø#	TO72	DG
19	2N5475	300m	8.0†	15		40			1mΔ%	.50n	0.0	15	.20m	.50m†	5.0u*		5p#	2.0m	200S	Ø#	TO72	DG
20	2N5476	300m	9.0†	15		40			2mΔ%	.50n	0.0	15	.26m	.65m†	10u*		5p#	2.0m	200S	Ø#	TO72	DG
21	3N155†	300m	3.2Δ	10*	35	50	30m		1.0n	1.0n						600 †	5.0p#	2.0m	175J	*Ø	TO72	DR
22	3N155A†	300m	3.2Δ	10*	35	50	30m		250p	1.0n						400 †	5.0p#	2.0m	175J	*Ø	TO72	DR
23	3N156†	300m	5.0Δ	10*	35	50	30m		1.0n	1.0n						600 †	5.0p#	2.0m	175J	*Ø	TO72	DR
24	3N156A†	300m	5.0Δ	10*	35	50	30m		250p	1.0n						400 †	5.0p#	2.0m	175J	*Ø	TO72	DR
25	3N157	300m	3.2Δ	15*	35	50	30m		1.0n	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
26	3N157A	300m	3.2Δ	15*	50	50	30m		250p	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
27	3N158	300m	5.0Δ	15*	35	50	30m		1.0n	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
28	3N158A	300m	5.0Δ	15*	50	50	30m		250p	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
29	3N165▼	300m	5.0Δ	15*	40	40	50m		30m	10p	10Ø	15	1.5m	3.0m	300u	300	3.0p#	2.4m	200S	Δ*	L18c	
30	3N166†	300m	5.0Δ	15*	40	40	50m		30m	10p	10Ø	15	1.5m	3.0u	300u	300	3.0p#	2.4m	200S	*	L18c	
31	3N181†	300m	4.0Δ	10*	30	30Δ	100m	100u	500p							40 %	25p#	2.4m	200S	*Ø	TO72	DM
32	3N182†	300m	5.0Δ	10*	30	30Δ	100m	100u	2.5n							60 %	25p#	2.4m	200S	*Ø	TO72	DM
33	3N183†	300m	6.0Δ	10*	25	25Δ	100m	100u	10n							75 %	30p#	2.4m	200S	*Ø	TO72	DM
34	3N184†	300m	3.0Δ	10*	35	35Δ	50m	1.0m	20m#Ø							150	9.0p#	2.4m	200S	Ø*	TO72	DM
35	3N185†	300m	3.0Δ	10*	30	30Δ	50m	1.0m	15m#Ø							175	10p#	2.4m	200S	Ø*	TO72	DM
36	3N186†	300m	3.5Δ	10*	25	25Δ	50m	1.0m	10m#Ø							200	11p#	2.4m	200S	Ø*	TO72	DM
37	3N188▼	300m	5.0Δ	15*	40	40Δ	50m	1.0m	200p		10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	L58b	
38	3N189*	300m	5.0Δ	15*	40	40Δ	50m	1.0m	200p		10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	L58b	
39	3N190▼	300m	5.0Δ	15*	40	40	50m		200p	10p	10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	L58b	
40	3N191*	300m	5.0Δ	15*	40	40	50m		200p	10p	10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	L58b	
41	3N207	300m	6.0Δ	15*	25	25	100m		10n	4.0p						400	4.0p#	2.4m	200S	*Ø	L61d	
42	3N208	300m	6.0Δ	15*	25	25Δ	100m	10m	10n							400	4.0p#	2.0m	200S	*Ø	L61d	
43	3N218†	300m	3.5Δ	10*	25	25Δ	700m	1.0m	20n							20 %	50p#	2.4m	175S	Ø*	TO72	DM
44	FT3909	300m	8.0†	10	20	20		10m	15m	10n	0.0	10	1.0m	5.0m	100u		32p#	2.0m	125J	DPL	TO18	DAØ
45	MEM560	300m	3.0Δ	3.0*	35	35	50m	100u	5.0n	500p	5.0Ø	10	2.0m	3.5mΔ		100 Δ	9.0p#	3.0m	125J	*	TO72	DM
46	MEM803	300m	6.5Δ	15*	20		50m		20n	5.0n	15	20				200	9.0p	3.0m	15	*Δ	TO72	DM
47	MEM804	300m	3.0Δ	15*	25		50m		10n	1.0p	15	20	2.0m			200 %	9.0p	3.0m	150	*Δ	TO72	DM
48	MEM805	300m	5.5Δ	15*	40		50m		100p	1.0p	15	20	2.0m			300 %	4.5p	3.0m	150	*Δ	TO72	DM
49	MEM806	300m	5.5†	5.5*	40	40			1.0n	3.0p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
50	MEM806A	300m	5.5†	5.5*	40	40			100p	1.0p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
51	MEM807	300m	5.5†	5.5*	40	40			1.0n	200p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
52	MEM807A	300m	5.5†	5.5*	40	40			100p	50p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
53	MEM814	300m	3.0Δ	3.0*	35	35	50m	100u	5.0n	500p	5.0Ø	10	2.0m	3.5mΔ		80 Δ	7.0p#	3.0m	125J	Ø*	TO72	DM
54	P102♦	300m	4.0	5.0		30	50m	50m	4.5m	10n	0.0	5.0	1.0m	1.6mΔ			17p#	2.0m	200	DØ	X8	Ø
55	P1086Et	300m	10†	15	30	30		10m	10m	2.0n	0.0	10	3.0m	8.0m	100u%	75 %	45p#	2.5m	125J		R97b	DB
56	P1087Et	300m	5.0†	15	30	30		10m	5.0m	2.0n	0.0	10	3.0m	8.0m	100u%	150 %	45p#	2.5m	125J		R97b	DB
57	P1117E	300m	4.0†	5.0	25	25	100m	10m	10mΔ	1.0n	0.0	10	3.5m			350	35p	1.7m	200S	Ø	TO106	DC
58	P1118E	300m	4.0†	5.0	25	25	100m	10m	5.0mΔ	1.0n	0.0	10	2.5m			700	35p	1.7m	200S	Ø	TO106	DC
59	P1119E	300m	4.0†	5.0	15	15	100m	10m	10mΔ	1.0n	0.0	10	1.5m			1.0k	35p	1.7m	200S	Ø	TO106	DC
60	PF510	300m	10†	15	30	30	100m	10m	5.0m	10n	0.0	10				200	15p	1.7m	200S	Ø	TO18	DAØ
61	TP5114	300m	10†	15	30	30	100m	10m	90mΔ	2.0n						75	45p	1.7m	200S	Ø	TO18	DAØ
62	TP5115	300m	6.0†	15	30	30	100m	10m	60mΔ	2.0n						100	45p	1.7m	200S	Ø	TO18	DAØ
63	TP5116	300m	4.0†	15	30	30	100m	10m	25mΔ	2.0n						150	45p	1.7m	200S	Ø	TO18	DAØ
64	U110	300m	6.0	10		20		30m	1.0m	4.0n	0.0	10	110u				6.0p#	2.0m	150S		TO18	DAØ
65	U112	300m	6.0	10		20		30m	9.0m	10n	0.0	10	1.0m				17p#	2.0m	150S		TO18	DAØ
66	U114	300m	6.0	5.0		30		50m	.50m	1.0n	0.0	5.0	.11m	.18mΔ	2.5u		6.0p%	2.0m	175A	D	TO46	DAØ
67	U133	300m	4.0	5.0	50	50		50m	1.5m	3.0n	0.0	5.0	.33m	.53mΔ			10p%	2.0m	175A	D	TO18	DAØ
68	U146	300m	6.0	10		20		30m	25u#	10n	0.0	10	60u				6.0p#	2.0m	150S		TO18	DAØ
69	U147	300m	6.0	10		20		30m	65u#	20n	0.0	10	180u				10p#	2.0m	150S		TO18	DAØ
70	U148	300m	6.0	10		20		30m	200u#	60n	0.0	10	540u				17p#	2.0m	150S		TO18	DAØ
71	U149	300m	6.0	10		20		30m	440u#	200n	0.0	10	1.4m				30p#	2.0m	150S		TO18	DAØ
72	U168	300m	5.0	10		20		50m	6.0mΔ	30n	0.0	5.0	.80m				65p#	2.0m	150S	#	TO18	DA
73	U300	300m	10	15		40		50m	90m	100p	15Ø	15	8.0m	12m		60 %	20p#	1.7m	150S	#	TO18	DAØ
74	U301	300m	6.0	15		40		50m	60m	100p	7.0Ø	15	7.0m	11m		100 %	20p#	1.7m	150S	#	TO18	DAØ
75	UC401	300m	8.0	20		30			8.0m	100p						250 †	8.0p#			PE	TO72	
76	UC805	300m	8.0	20		25			25m#	1.0n	0.0	20	1.0m	10m		1.0kt	12p#			PEØ	TO72	
77	UC814	300m	8.0	20		25			15m	2.0n	0.0	20	.80m	5.0m		1.3kt	16p#			PLØ		
78	UC851	300m	6.0	15		20			9.0m	4.0n	0.0	15	1.0m				17p#			PL	TO18	
79	UC853	300m	6.0	20		25			70u#	4.0p	0.0	20	180u			10p					TO18	
80	UC854	300m	6.0	20		25			200u#	15n	0.0	20	540u				17p#	2.0m	200		TO18	DA
81	UC855	300m	6.0	20		25			440u#	25n	0.0	20	1.4m				25p#	2.0m	200		TO18	DA
82	UC2766*	300m	5.0Δ	15*	30	30Δ	50m		30mØ	10p		15	1.0m	4.0m	300u%	300 %	3.5p#	2.4m	150J	PLΔØ		
83	2N5460	310m	6.0†	15		40			5.0mΔ	5.0n	0.0	15	1.0m	4.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
84	2N5461	310m	7.5†	15		40			9.0mΔ	5.0n	0.0	15	1.5m	5.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
85	2N5462	310m	9.0†	15		40			16mΔ	5.0n	0.0	15	2.0m	6.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
86	2N5463	310m	6.0†	15		60			5.0mΔ	5.0n	0.0	15	1.0m	4.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
87	2N5464	310m	7.5†	15		60			9.0mΔ	5.0n	0.0	15	1.5m	5.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
88	2N5465	310m	9.0†	15		60			16mΔ	5.0n	0.0	15	2.0m	6.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
89	A5T5460	310m	6.0†	15		40		10m	5.0m%	5.0n	0.0	15	1.0m	4.0m	75u%	2.0k%	7.0p#	2.8m	150S	PLØ	X55	DB
90	A5T5461	310m	7.5†	15		40		10m	9.0m%	5.0n	0.0	15	1.5m	5.0m	75u%	2.0k%	7.0p#	2.8m	150S	PLØ	X55	DB
91	A5T5462	310m	9.0†	15		40		10m	16m%	5.0n	0.0	15	2.0m	6.0m	75u%	2.0k%	7.0p#	2.8m	150S	PLØ	X55	DB
92	HEPF1035-RT	310m		40		40	20m		14m	10n			1.0m						135J		TO92	DB
93	MPF161	310m	8.0†	15Δ	40	40	20m	10m	14m	10n	0.0	15	800u%	6.0m%	75u%		7.0p#	2.8m	135J	#†	TO92	DB
94	2N3608	350m	6.0Δ	*	25	25			7.0m	25p						400 %		15m	125S	Ø	TO33	DK
95	2N3609Ø	350m	6.0Δ	*	25	25			3.2m	20p						1.0k%		15m	125S		L18	
96	2N4065†	350m	6.0Δ	15*	30	25	20m		12m		15	15	400u		100u%	1.5k%	4.5p#	2.3m	175J	Ø	TO72	DM
97	2N4120†	350m	6.0Δ	15*	30	25	20m		12m		15	15	700u		100u%	1.0k%	4.5p#	2.3m	175J	Ø	TO72	DM
98	3N145†	350m	6.0Δ	20*			20m	10m	3.0m#							1.5kt	1.0pØ	2.3m	175J	*Ø	TO72	DM
99	3N146†	350m	6.0Δ	20*			20m	10m	3.0m#							1.5kt	1.0pØ	2.3m	175J	*Ø	TO72	DM
100	E174†	350m	10	15		30		50m	100m%	1.0n						85 %	40 *#	3.5m	125A	#Ø	U121	DA
101	E175†	350m	6.0	15		30		50m	60m%	1.0n						125 %	40 *#	3.5m	125A	#Ø	U121	DA
102	E176†	350m	4.0	15		30		50m	25m%	1.0n						250 %	40 *#	3.5m	125A	#Ø	U121	DA
103	E270	350m	2.0	15		30		50m	15m%	200p	0.0	15	6.0m†	15m†			20 *#	3.5m	125A	#†	U121	DA
104	E271	350m	4.5	15		30		50m	50m%	200p	0.0	15	8.0m†	18m†			20 *#	3.5m	125A	#†	U121	DA
105	FT704	350m	6.0	15	30	25	20m	10m			15	15	25mΔ	100m%	100u%	1.5kt	4.5p#	2.3m	175J	DPL*	L51a	
106	HA2000	350m	5.0Δ	*	30														175J	*	TO72	
107	HA2001	350m	6.0Δ	*	35						2.0Ø	10	1.0m	2.0m					175J	*	TO72	
108	HA2010	350m	5.0Δ	*	35						2.0Ø	10	1.0m	2.0m					175J	*	TO72	
109	HA2020	350m	4.0Δ	*	35						2.0Ø	10	1.0m	2.0m					175J	*	TO72	

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	MPF970†	350m	12†	15△	25	30			60m%	1.0n						100	12p#	2.8m	150A	#	TO92	DD
2	MPF971†	350m	7.0†	15△	25	30			30m%	1.0n						250	12p#	2.8m	150A	#	TO92	DD
3	U304†	350m	10	15		30		50m	90m	500p						85 %	27p#	3.0m	150S	#☑	TO18	DAØ
4	U305†	350m	6.0	15		30		50m	60m	500p						110 %	27p#	3.0m	150S	#☑	TO18	DAØ
5	U306†	350m	4.0	15		30		50m	25m	500p						175 %	27p#	3.0m	150S	#☑	TO18	DAØ
6	UC400	350m	6.0	20		30△			15m△	.01n	0.0	20	3.0m			.30k†	8.0p		200J	PE	TO72	DG
7	2N3820	360m	8.0†	10△	20	20		10m	15m%	20n	0.0	10	.80m	5.0m	200u		32p#	2.9m	150S	†	TO92	DA
8	2N5548	360m	5.0†	15*	25	25	125m		120mØ	50p			3.5m	6.5m	250u%		10p	2.9m	150S		X55	DQ
9	3N160	360m	5.0△	15*	25	25	125m		120m	10p	8.0Ø	15	3.5m%	6.5m%	250u		10p#	2.4m	200S		TO72	DMØ
10	3N161	360m	5.0△	15*	25	25△	125m	10m	120m		8.0Ø	15	3.5m%	6.5m%	250u		10p#	2.4m	200S		TO72	DMØ
11	3N174†	360m	6.0△	15*	30	30	20m		12m	2.5p	15	15	400u		200u%	1.0k	4.0p	2.4m	200S	Ø*	TO72	DM
12#	TIX67	360m				5.0			10m	50p			4.0				10p			PL*	X55c	
13	3N163†	375m	5.0△	15*	40	40	50m		30m	10p	10Ø	15	2.0m	4.0m	250u	250	2.5p#	3.0m	200S	*	TO72	DM
14	3N164†	375m	5.0△	15*	30	30	50m		30m	10p	10Ø	15	1.0m	4.0m	250u	300	2.5p#	3.0m	200S	*	TO72	DM
15	3N172†	375m	5.0△	15*	40	40△	50m	1.0m	30m			15	1.5m	4.0m	250u	250	3.5p#	3.0m	200S		TO72	DMØ
16	3N173†	375m	5.0△	15*	40	40△	50m	1.0m	30m			15	1.0m	4.0m	250u	350	3.5p#	3.0m	200S		TO72	DMØ
17	IT1700	375m	5.0△	$	40	125	50m		200p			15	2.0m	4.0m		400 †	5.0p#	3.0m	150J	*☑	TO72	EG
18	M163	375m	5.0△	*	40	40			30m	10p	10Ø	15	2.0m	4.0m		250 %	2.9p#	3.0m	150J	*	TO72	DM
19	M164	375m	5.0△	*	30	30			30m	10p	10Ø	15	1.0m	4.0m		300 %	2.9p#	3.0m	150J	*	TO72	DM
20	UC1764	375m	5.0△	*	30	30	50		3.0mØ#		10Ø	15	1.0m	4.0m	300u	300k△	3.0p#	3.0m	200S	*	TO72	DS
21	2N4267†	400m	6.0△	15*	30	25	500m		100m		15	15	3.0m		600u%	250 %	15p#	2.6m	175J	☑	TO72	DS☑
22	2N4268†	400m	6.0△	15*	30	25	500m		100m		15	15	5.0m		600u%	125 %	15p#	2.6m	175J	☑	TO72	DS☑
23	3N149†	400m	6.0△	20*			200m	10m	16m#							.25k†	3.0pØ	2.6m	175J	*☑	TO72	DM
24	3N150†	400m	6.0△	20*			200m	10m	16m#							.25k†	3.0pØ	2.6m	175J	*☑	TO72	DM
25	MEM517C	450m	5.0†	5.0*	25	25	250m	100u	50n	1.0n	10	10	1.2m△			45	15p†	6.0m	100J	*	TO33	DM
26	2N2386	500m				20△		10m		10n	0.0	10	1.0m%		300n△		50p#	3.3m	200S		TO5	DAØ
27	2N2386A	500m				20			15m△	10n	0.0	10	2.2m	5.0m	.10u△		10p#	3.3m	200S	#	TO5	DAØ
28	2N2497	500m				20△		10m	3.0m	10n	1.0Ø	10	1.0m%	2.0m%	20u%	1.0k%	32p☑	3.3m	200S	Ø	TO5	DAØ
29	JAN2N2497	500m	5.0†	15	20			10m	3.0m	10n		10	1.0m	2.0m	20u	1.0k	32p#	3.3m	200S	Ø#	TO5	DAØ
30	2N2498	500m				20△		10m	6.0m	10n	2.0Ø	10	1.5m%	3.0m%	40u%	800 %	32p☑	3.3m	200S	Ø	TO5	DAØ
31	JAN2N2498	500m	6.0†	15	20			10m	6.0m	10n		10	1.5m	3.0m	40u	800	32p#	3.3m	200S	Ø#	TO5	DAØ
32	2N2499	500m				20△		10m	15m	10n	5.0Ø	10	2.0m%	4.0m%	100u%	600 %	32p☑	3.3m	200S	Ø	TO5	DAØ
33	JAN2N2499	500m	8.0†	15	20			10m	15m	10n		10	2.0m	4.0m	100u	600	32p#	3.3m	200S	Ø#	TO5	DAØ
34	2N2500	500m				20△		10m	6.0m	10n	1.0Ø	10	1.0m%	2.2m%	20u%		32p☑	3.3m	200S	Ø	TO5	DAØ
35	JAN2N2500	500m	6.0†	15	20			10m	6.0m	10n		10	1.0m	2.2m	20u	800	32p#	3.3m	200S	Ø#	TO5	DAØ
36	2N5114†	500m	10†	15		30			90m	.50n						.08k%	25p#	3.0m	200S	☑#	TO18	DAØ
37	JAN2N5114†	500m	10†	15△	30	30		50m	90m%	500p						75 %	25p#	3.0m	200S		TO18	DAØ
38	2N5115†	500m	6.0†	15		30			60m	.50n						.10k%	25p#	3.0m	200S	☑#	TO18	DAØ
39	JAN2N5115†	500m	6.0†	15△	30	30		50m	60m△%	500p						100 %	25p#	3.0m	200S		TO18	DAØ
40	2N5116†	500m	4.0†	15		30			25m	.50n						.15k%	25p#	3.0m	200S	#	TO18	DAØ
41	JAN2N5116†	500m	4.0†	15△	30	30		50m	25m△%	500p						175 %	27p#	3.0m	200S		TO18	DAØ
42	M106	500m	6.0△	*	30	30	50m	100u	10m	100p	10	10	2.0n			120 †	500f☑	6.7m	125J	*§	L51b	
43	M107	500m	6.0△	*	30	30	50m	100u	10m	100p	10	10	2.0n			120 †	500f☑	6.7m	125J	*§	L70	
44	M108	500m	8.0△	*	30	30	50m	100u	10m	1.0p	10	10	2.0n			120 †	500f☑	6.7m	125J	*§	L70a	
45	2N4066†	600m	6.0△	15*	30	25	200m		50m		15	15	1.5m		300u%	.50k	7.0p#	4.0m	175J	☑	L18a	
46	2N4067†	600m	6.0△	15*	30	25	200m		50m		15	15	2.5m		300u%	.25k%	7.0p#	4.0m	175J	☑	L18a	
47	3N147†	600m	6.0△	20*			200m	10m	8.0m#							.50k†	2.0pØ	4.0m	175J	*☑	L18a	
48	3N148†	600m	6.0△	20*			200m	10m	8.0m#							.50k†	2.0pØ	4.0m	175J	*☑	L18a	
49	MEM517	600m	5.0†	5.0*	30	25	250m	1.0m	50n	1.0n	10	10	1.2m△			45	10p*†	6.0m	125J	*	TO33	DM
50	MEM517A	600m	5.0†	5.0*	30	25	250m	1.0m	50n	1.0n	10	10	1.2m△			45	16p†*	6.0m	125J	*	TO5	DCØ
51	MFE3020†	600m	6.0△	15*	25	25	200m		10n	10p	15	15	500u			500 %	7.0p#	4.0m	175J	☑*	L18a	
52	MFE3021†	600m	6.0△	15*	25	25	200m		10n	10p	15	15	500u			250 %	7.0p#	4.0m	175J	☑*	L18a	
53	UC807	600m	12	15		20			125m#	2.0n	0.0	15	2.5m	25m		400 †	30p*			PE	TO72	
54	2N5018†	1.8 △	10†	15△	30	30		10m	10m#	2.0n						.07k†	45p#	10m	200S		TO18	DAØ
55	2N5019†	1.8 △	5.0†	15△	30	30		10m	5.0m#	2.0n						.15k†	45p#	10m	200S		TO18	DAØ
56	3N162†	2.0 △	5.0△	10*	30	25△	250m		25m							100	20p#	20m	150S	*	TO33	DM
57	MEM515	2.0	3.0△	10*	30	35	700m	1.0m	10n	500p		10	12m			15	50p#		175S	*△	TO33	DM

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	TYPE No.	MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	2SK50			10△	10△	2.0m	2.0m	1.0m											80S	#	TO92 DR
2	C6690		10	10△	30△	45△		10m		1.0n△						.50k	5.0p△		200J	E#	TO18 DD
3	C6691		10	10△	25△	25△		10m		1.0n△						.50k	5.0p△		200J	E#	TO18 DD
4	C6692		6.0	10△	25△	25△		10m		1.0n△						.90k	5.0p△		200J	E#	TO18 DD
5	NF550*		4.5†	20		20			15m	350p	0.0	15	2.0m	7.0m			5.0p#*		125A		L74
6	U1287		15	10		30△				2.0n						50 †	20p△				R82 DB
7	UC754		4.0	20		30			5.0m	1.0n	0.0	20	1.0m		50u		6.0p#			PL∅	TO18
8	UC755		6.0	20		30			10m	1.0n	0.0	20	2.0m		50u		6.0p#			PL∅	TO18
9	UC756		10	20		30			15m	1.0n	0.0	20	1.0m		50u		6.0p#			PL∅	TO18
10	VCR2N		7.0	10		15				5.0n						60 %			150S	#	TO18 DB
11	VCR4N		7.0	10		15				200p						600 %			150S	#	TO18 DB
12	VCR7N		5.0	10		15				100p						8.0k%			150S	#	TO72 DJ
13	VCR10N		12	10		25				250p						200 %	6.0p△		150A	#	TO72 DB
14	VCR11N		12	10		25				250p						200 %	6.0p△		150A	#§	L58c
15	VCR12N		12	10		25				250p						200 %	6.0p△		150A	#§	TO84 DB
16	VCR13N		12	10		25				250p						200 %	6.0p△		150A	#§	TO84 DB
17	VCR20N		25	5.0		30				1.0n						160 %	3.0p△		150A	#	TO18 DB∅
18	UC21	20m	2.5	20		30			600u△	50p			200u				2.0p		200	E	TO72 DH
19	2N3687	25mt	1.1	20		50	.50m	50m	.50m	.10n	0.0	20	.50m	1.5m	5.0u%		4.0p#	2.0m	200S	∅	TO72 DH
20	2N3687A	25mt	1.2†	20		50	500u	50m	500u	100p	0.0	20	500u	1.5m	500n		4.0p#	2.0m	200S	#*	TO72 DH
21▼#	MEF3687	25mt	1.1	20		50△			500u	100p	0.0	20	500u	1.5m			4.0p	2.0m	200S		TO106 DB
22#	BF800	36m	6.0†	6.0△	25	25	1.2m	10m	1.2m△	500f	.30∅	6.0	250u	750u	10u		1.3p*#	1.7m	200S	PE	TO72 DH
23#	BF801	36m	6.0†	6.0△	25	25	1.2m	10m	1.2m△	1.0p	.30∅	6.0	250u	750u	10u		1.3p*#	1.7m	200S	PE	TO72 DH
24#	BF802	36m	6.0†	6.0△	25	25	1.2m	10m	1.2m△	5.0p	.30∅	6.0	250u	750u	10u		1.3p*#	1.7m	200S	PE	TO72 DH
25#	BF803	36m	3.0†	7.5	30	30	1.2m	10m	800u		.30∅	7.5	250u	500u	6.0u		1.8p#	1.7m	200S	PE	TO72 DH
26#	BF804	36m	5.0†	7.5	30	30	1.2m	10m	1.2m		.30∅	7.5	250u	500u	6.0u		1.8p#	1.7m	200S	PE	TO72 DH
27#	2SK39A	50m				20	1.0m	100u	600m	250p		9.0	110u	670u					120S	EPL#	
28#	2SK42	50mt				10△	10m	100u	5.0m	100n		4.0	3.5m	5.5m△			120f△		120S	E#$	
29	2N3686	60mt	1.8	20		50	1.2m	50m	1.2m	.10n	0.0	20	1.0m	2.0m	10u%		4.0p#	2.0m	200S	∅	TO72 DH
30	2N3686A	60mt	2.0†	20		50	1.2m	50m	1.2m	100p	0.0	20	1.0m	2.0m	1.0u		4.0p#	2.0m	200S	#*	TO72 DH
31▼#	MEF3686	60mt	1.8	20		50△			1.2m	100p	0.0	20	1.0m	2.0m			4.0p	2.0m	200S		TO106 DB
32	UC20	60m	5.0	20		30			2.0m△	50p			300u				2.0p		200	E	TO72 DH
33#	2SK49	72m	2.5	5.0△		20△	10m	10m	2.0 △*	100n△	.50∅	5.0	500u	6.0m			5.0p#*		80J	#	TO92 DE
34	FF102♦	75m	6.0	10	15	10		50m	5.0m	1.0n	0.0	10	800u					1.7m	200J	E#△	R150 DH
35	FF108♦	75m	6.0	10	15	10		50m	5.0m	1.0n	0.0	10	800u					1.7m	200J	E△#	R150a DH
36#	3SK29	80m	5.0†	10△	20†	30	10m		1.0m*	10p	0.0	10	.30m		10u		4p#*	1.0m	100	*∅	TO72 DU
37#	C91	87m	15	10	25△	25△	10n	50m	7.0m							200k	3.0pt*	2.0m	200A	∅∅	TO18 DD
38#	2SK11	100m	6.0	10		20△		10m	6.5m	1.0n	0.0	10	.70m	3.5m			3.5p†	.80m	150J	PE△☑	TO17 DG
39#	2SK12	100m	4.5	10		20△		10m	5.0m	.10n	0.0	10	.80m	3.2m			3.5p†	.80m	150J	PE△☑∅	TO17 DG
40#	2SK13	100m	4.5	10		12		10m	5.0m	1.0n	0.0	10	.80m	3.2m			3.5p†	.80m	150J	△∅	TO17 DG
41#	2SK16H	100m			1.5	20	10m	10m	7.0m	1.0n	6.0		1.0m	6.0m			9.0p		150J		
42▼#	2SK30A	100m	5.0	10		50		10m	6.5m	10n	0.0	10	1.2m					4.0	125J	PE∅	X20f DA
43#	2SK37	100m	4.0	5.0	15△	20△	20m	10m	6.0m	10n	.50∅	5.0	1.5m		100u		4.0	1.0m	125J	PE	u23a DB
44#	2SK40	100m	50†	15		50		10m	300u△#	5.0n	0.0	15	300m%				6.7p#		125J	#∅	
45#	2SK41C	100m	1.2†	10		18△		10m	1.5m	10n	0.0	10	7.0m△					1.0m	125J	#∅	u45a DD
46#	2SK41D	100m	1.9†	10	40	40		10m	3.0m	10n	0.0	10	7.0m△					1.0m	125J	#∅	u45a DD
47#	2SK41E	100m	3.0†	10	40	40		10m	6.0m	10n	0.0	10	7.0m△					1.0m	125J	#∅	u45a DD
48#	2SK41F	100m	5.0†	10	40	40		10m	12m	10n	0.0	10	7.0m△					1.0m	125J	#∅	u45a DD
49▼#	2SK44	100m	4.0	10	20			10m	450u	1.0m		10	2.0 △						125A	#	R145 DC
50#	2SK56	100m			10△	10△	10m	10m	10m	500n	5.0	5.0	4.0m△				4.0p*	1.0m	125J	#	TO92 DE
51▼#	2SK57	100m	4.0	5.0		20△	20m	10m	6.0m	10n	.50∅	5.0	1.5m					1.0m	125J	#	u56b
52	3SK14	100m	5.0	10							0.0	10			10u						TO72
53#	3SK20H	100m			20		10m		5.0m		5.0		.60m	4.5m	100u		5.0p		150J	*	TO18
54#	3SK21H	100m			20		10m		5.0m	1.0n	5.0		2.5m				5.0p		150J	*	TO18
55#	MTF101	100m	10	20		30			20m	500p	0.0	20	500u			2.0k%	8.0p#	800u	125S	#	
56#	MTF102	100m	1.5	20		40			1.0m	100p	0.0	20	1.0m			1.5k%	8.0p#	800u	125S	#	
57#	MTF103	100m	4.0	20		40			4.5m	100p	0.0	20	1.5m			1.0k%	8.0p#	800u	125S	#	
58#	MTF104	100m	10	20		50			20m	100p	0.0	20	2.0m			500 %	8.0p#	800u	125S	#	
59	SK3112-RT	100m						10m	1.5m				2.0m△							#	
60	2N4038	120m		*	25	50	20m		100u			6.0	1.5m	2.5m		20k	2.5p†	150m	175S	*	TO72 DR
61	2N4039	120m		△	25	50	20m		1.5m			6.0	1.2m	2.5m		20k	2.5p†	150m	175S	*	TO72 DR
62#	BF808	120m	5.0†	6.0△	20	20△	6.0m	10m	6.0m	50p	1.0∅	6.0	750u	2.5m	20u		2.5p#	1.7m	200S	PE	TO72 DH
63	IT200	120m	6.0	20		50			30m	100p	0.0	20	6.0m			150 %	7.0p	685u	200J	PE#∅	u92 EE
64	IT210	120m	4.0	20		50			12m	100p	0.0	20	4.5m			250 %	7.0p	685u	200J	PE#∅	u92 EE
65	IT220	120m	2.5	20		50			8.0m	100p	0.0	20	3.0m			350 %	7.0p	685u	200J	PE#∅	u92 EE
66	2N3685	150mt	3.2	20		50	3.0m	50m	3.0m	10n	0.0	20	1.5m	2.5m	25u%		4.0p#	2.0m	200S	∅	TO72 DH
67	2N3685A	150mt	3.5†	20		50	3.0m	50m	3.0m	100p	0.0	20	1.5m	2.5m	2.5u		4.0p#	2.0m	200S	#*	TO72 DH
68#	2SK23	150m	4.9	10		18△	20m		16m△	10n	0.0	10	2.7m		50u		5.0p	2.5m	150S	E#∅	u37 DA
69#	2SK33	150m	8.0†	10△		20△		10m	20m	100n	0.0	10	7.0m△	%			3.5p	1.5m	125J	#∅	TO92 DD
70#	2SK34	150m	6.0†	10△		30△		10m	6.0m	10n	0.0	10	3.0m△		10u		6.0p	1.5m	125J	#∅	TO92 DA
71#	2SK54	150m	5.5†	10		15△		10m	5.0m	10n	0.0	10	3.0	6.0 △			3.0p#	1.5m	125J	#∅	u94a DD
72#	2SK55	150m	5.5†	10		18△		10m	14m	10n	0.0	10	3.0	8.0 △			3.0p#	1.5m	125J	#∅	u94a DD
73	3N138	150mt		△	35	10	50m			10p						350 %	5.0p#		150S	△*	TO72 DW
74	3N139	150m	6.0†	15△	35	10	50m		25m%	1.0n							7.0p#		150S		TO72 DW
75#	BFW12	150m	2.5	15	30	30	10m	5.0m	5.0m	100p	0.0	15	2.0m		30u%			1.6m	200J	∅	TO72 DN
76#	BFW13	150m	1.2	15	30	30	10m	5.0m	1.5m	100n	0.0	15	1.0m		10u%			1.6m	200J	∅	TO72 DN
77▼#	MEF3685	150mt	3.2	20		50△			3.5m	100p	0.0	20	1.5m	2.5m			4.0p	2.0m	200S		TO106 DB
78	MEM557	150m	4.0†	15△	20	10			30m	100p	10∅	15	8.0m	10m△		200	5.0p#	1.4m	150J	*	TO72 DW
79	MEM571C	150m	4.0†	15△	20	6.0			30m	10n	10∅	15	8.0m	10m△		200	6.0p#	1.2m	150J	∅*	TO72 DW
80	MEM615A	150m	1.0†	△	18	6.0			4.0m*	20n			10m☑				5.5p*#			$	
81	MEM656A	150m	4.0†	15△	20	6.0			20m	100n	5.0∅	15	6.0m	10m△			7.0p#	2.2m	125J	*	R168 EJ
82	MEM660	150m	6.0†	15△	20	12	50m		10m	10n						30	7.0p#	3.0m	150J	△	TO72 DW
83#	MK10	150m	2.5%	10△		30△		10m	20m△	100n	0.0	10	1.0m	4.0m△	50u		4.0p*#	1.5m	125J	∅#	TO92 DA
84#	PL1091	150m				50				.10n	0.0	15	1.5m%	4.5m%			6.0p#		175S	PE	u50 E
85#	PL1092	150m				50				.10n	0.0	15	3.0m%	6.5m%			6.0p#		175S	PE	u50 E
86#	PL1093	150m				30				.50n	0.0	15	3.5m%	6.5m%			6.0p#		175S	PE	u50 E
87#	PL1094	150m				50				.10n						250k†	6.0p#		175S	PE☑	u50 E
88#	3SK32	170m	2.5†	10	20	10	15m		5.0m△	.10n	5.0	10	5.0m%	10m%			5.0p#	1.7m	150S	$*	TO72 EA☑
89	2N4417	175m	6.0†	15△	30	30		10m	15m	.10n	0.0	15	4.5m	725m	50u		3.5p#	1.0m	200S		u23 DB
90	MEM562Ct	175m	4.0△	*	20	10			10n	100p	2.0∅	10	1.0m			150	5.0p#	2.3m	100J	*	TO72 DR
91	U314	175m	6.0	10		25		10m	30m%	1.0n	10∅	10	6.0m	10m	200u		5.0p#	1.0m	200A	#	u113 DA
92	U315	175m	6.0	10		25		10m	30m%	1.0n	10∅	10	6.0m	10m	200u		5.0p#	1.0m	200A	#	u77h EE
93	UC155W	175m	10	20	30△	30	30m	10m	30m	.10n						.13k	3.5p	1.0m	200	PE	u23 DB
94	2N3796	200m	4.0†	10	25	10	20m		3.0m	1.0p	0.0	10	.90m	1.8m	25u%		7.0p#	1.1m	200S		TO18 DA☑
95	2N3797	200m	7.0†	10	20	10	20m		6.0m	1.0p	0.0	10	1.5m	3.0m	60u%		8.0p#	1.1m	200S		TO18 DA☑
96	2N5163	200m	8.0†	15△	25	25		50m	40m	10n	0.0	15	2.0m	9.0m	200u%	.50k%	20p#	2.0m	125J	∅	TO106 DB
97	2N5716	200m	3.0†	15		40△			250u△%	1.0n	0.0	15	200u	1.0m	25u		5.0p#	2.0m	150S	#	TO92 DD
98	2N5717	200m	5.0†	15		40△			1.0m△%	1.0n	0.0	15	400u	1.6m	25u		5.0p#	2.0m	150S	#	TO92 DD
99	2N5718	200m	8.0†	15		40△			4.0m△%	1.0n	0.0	15	500u	2.0m	25u		5.0p#	2.0m	150S	#	TO92 DD
100▼#	2SK19	200m	3.0%	10		18		10m	24m△	10n	0.0	10	7.0m△					2.0m	125J	PE∅	R67a DD
101#	2SK35	200m	1.6	10		20△	20m		16m△	1.0n	0.0	10	6.3m	15m	200u		15p	3.3m	150S	E#∅	u37 DA
102#	3SK22	200m	5.5	10		18△		10m	24m	100n	0.0	10	7.0m△				4.5p#	1.6m	150J	△∅	TO72 DW
103#	3SK23	200m	5.5	10		15△		10m	24m	100n	0.0	10	6.0m	12m			4.5p#	1.6m	150J	△∅	TO72 DW
104#	3SK28	200m	5.0	10		15		10m	22m	20n	0.0	10	6.0m	12m			6.0p#	1.6m	150J	△∅	TO72 DW
105#	3SK30	200m	6.0	10		15		10m	3.0m△#	100n	0.0	10	4.0m%				5.0 #*		150J	∅#	TO72 DW
106#	3SK30A	200m	6.0	10		18		10m	3.0m△#	100n	0.0	10	4.0m%				5.0p#*		150J	∅#	TO72 DW
107#	3SK35	200m	4.0†	15$	20†	6.0	30m		24m	100n	4.0	15	10 △				5.5p#*	2.7m	150A	PE*	TO72 DX
108#	BFR29	200m	4.0†	15			20m		40m	10p	5.0∅	15	6.0m		400u%		5.0p	2.0m	125J	%∅	TO72 DW
109#	BFR30	200m	5.0†	10	25	25	10m	5.0m	10m	200p	1.0∅	10	1.0m	4.0m	40u%		4.0p	1.6m	150J	PE#	u56 DB
110#	BFR31	200m	2.5†	10	25	25	10m	5.0m	5.0m	200p	1.0∅	10	1.5m	4.5m	25u%		4.0p	1.6m	150J	PE#	u56 DB

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	TYPE No.	2. 1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1#	BFS28	200m	5.0Δ	20Δ	20	8.0	20m			1.0n	4.0	13	8.0m	13mΔ				1.8m	135S	Ø	TO72	DX
2#	BFW96	200m	4.5	20	30	30	50m		30m		20	1.3m	2.5mΔ			5.0p	2.5m	125J	*	TO72	DH
3#	BSV81	200m		Δ			50m			10p						100 †		2.0m	125S	☑	TO72	DW§
4#	C82A	200m	5.0	50			10m						.03m	.20m	.20u		10p*		150J	☑	R111	DB
5#	C82B	200m	10	50			10m						.03m	.20m	.20u		10p*		150J	☑	R111	DB
6#	C83A	200m	10	50			10m						.03m	.20m	.40u		10p*		150J	☑	R111	DB
7#	C83B	200m	15	50			10m						.03m	.20m	.40u		10p*		150J	☑	R111	DB
8#	C97E	200m	3.0	10		50			11m	50p	0.0	10	3.0m	9.0m			6.0p#*	1.3m	150S	#	TO92	DA
9#	C98E	200m	4.0	10		50			13m	50p	0.0	10	3.5m	8.5m			6.0p#*	1.3m	150S	#	TO92	DA
10	C681	200m	2.5	10Δ	30Δ	30Δ		50m	.40m	10nΔ	0.0	10	.20m	.50m	10ut		3pt*	1.1m	200J	E#	TO18	DD
11	C681A	200m	2.5	10Δ	30Δ	30Δ		50m	.40m	1.0nΔ	0.0	10	.20m	.50m	10ut		3pt*	1.1m	200J	E#	TO18	DD
12	C683	200m	5.0	10Δ	30Δ	30Δ		50m	1.6m	10nΔ	0.0	10	.40m	1.0m	20ut		3pt*	1.1m	200J	E#	TO18	DD
13	C683A	200m	5.0	10Δ	30Δ	30Δ		50m	1.6m	1.0nΔ	0.0	10	.40m	1.0m	20ut		3pt*	1.1m	200J	E#	TO18	DD
14	C685	200m	10	10	30Δ	30Δ		50m	6.0m	10nΔ	0.0	10	.60m	1.5m	60ut		3pt*	1.1m	200J	E#	TO18	DD
15	C685A	200m	10	10Δ	30Δ	30Δ		50m	6.0m	1.0nΔ	0.0	10	.60m	1.5m	60ut		3pt*	1.1m	200J	E#	TO18	DD
16	FE0654A	200m	8.0†	15	25	25		50m	40mΔ	10n	0.0	15	4.5m%	9m%	52u	.15k†	20p#	2.0m	125J	DPL	TO106	DB
17	FE0654B	200m	4.0†	15	25	25		50m	12mΔ	10n	0.0	15	3.5m%	8m%	27u	.22k†	20p#	2.0m	125J	DPL	TO106	DB
18	HEP801-RT	200m			30	20	15m		9.0m%	1.0n			3.0m						125J		TO72	DJ
19	HEP802-RT	200m			25	25		10m	20m%	1.0n			2.0m						125J		TO92	DD
20	IT108	200m	6.0	15	25	25		10m	25m%	1.0n	0.0	15	4.0m	8.0m	100u%		5.0p#	2.0m	125S	PEØ	R97a	DB
21	ITE3066	200m	10	30		45Δ		100m	4.0m	1.0n	0.0	30	300u				10p%	2.0m	125J	PE#Ø	TO106	DB
22	ITE3067	200m	5.0	30		45Δ		100m	1.0m	1.0n	0.0	30	250u				10p%	2.0m	125J	PE#Ø	TO106	DB
23	ITE3068	200m	2.5	30		45Δ		100m	250u	1.0n	0.0	30	150u				10p%	2.0m	125J	PE#Ø	TO106	DB
24	ITE4117	200m	1.8†	10		40		50m	90u%	25p		10	60ut				3.0p#	2.0m	125J	PE#	TO106	DB
25	ITE4118	200m	3.0†	10		40		50m	240u%	25p		10	70ut				3.0p#	2.0m	125J	PE#	TO106	DB
26	ITE4119	200m	6.0†	10		40		50m	1.0m%	25p		10	90ut				3.0p#	2.0m	125J	PE#	TO106	DB
27	ITE4338	200m	1.5†	15		40		50m	600u%	500p	0.0	15	500ut			2.5k†	7.0p#	2.0m	125J	PE#Ø	TO106	DB
28	ITE4339	200m	2.5†	15		40		50m	1.5m%	500p	0.0	15	700ut			1.7k†	7.0p#	2.0m	125J	PE#Ø	TO106	DB
29	ITE4340	200m	3.5†	15		40		50m	3.6m%	500p	0.0	15	1.0mt			1.5k†	7.0p#	2.0m	125J	PE#Ø	TO106	DB
30	ITE4341	200m	7.0†	15		40		50m	9.0m%	500p	0.0	15	1.5mt			800 †	7.0p#	2.0m	125J	PE#Ø	TO106	DB
31	ITE4416	200m	7.0†	15	25	25		10m	20m%	200p	0.0	15	3.5m	8.0mt	100u		5.0p#	2.0m	125J	PE#Ø	TO106	DB
32	ITE4867	200m	2.0†	20		35		10m	1.2m%	1.0n	0.0	20	700u		3.0u%		25p#	2.0m	125J	PE#Ø	TO106	DB
33	ITE4868	200m	3.0†	20		35		10m	3.0m%	1.0n	0.0	20	1.0m		6.0u%		25p#	2.0m	125J	PE#Ø	TO106	DB
34	ITE4869	200m	5.0†	20		35		10m	7.5m	1.0n	0.0	20	1.3m		10u%		25p#	2.0m	125J	PE#Ø	TO106	DB
35♦#	MEF103	200m	60†	15		40Δ			4.5m	100p	0.0	15		1.5m			8.0p	2.0m	125J	Ø	TO106	DB
36♦#	MEF104	200m	70†	15		50Δ			20m	100p	0.0	15		2.0m			8.0p	2.0m	125J	Ø	TO106	DB
37▼	MEM712†	200m	2.0Δ	*	25	30			10n	1.0n	2.0Ø	10	2.0m	%		50	6.0p	3.3m	125J	*	u140	EJ
38	MFE3001	200m	8.0†	10$	20	20	20m		5.0mØ	10p	0.0	10	700u	3.5m	100u%		5.0p	1.1m	200J	*	TO72	DG
39	MFE3002	200mΔ	3.0Δ	10*	15	20	30m		10n	100p						100 %	5.0p#	1.4m	175J	☑*	TO72	DW
40	MPF102	200m	8.0†	15	25	25		10m	20m%	Δ2.0n	0.0	15	2.0m	7.5			7.0p#	2.0m	125J	#	TO92	DD
41	MPF103	200m	6.0†	15	25	25	16m	10m	5.0m	1.0n	0.0	15	1.0m	5.0m	50u		7.0p	2.0m	125J	Δ	TO92	DD
42	MPF104	200m	7.0†	15	25	25	16m	10m	9.0m	1.0n	0.0	15	1.5m	5.5m	50u		7.0p	2.0m	125J	Δ	TO92	DD
43	MPF105	200m	8.0†	15	25	25	16m	10m	16m	1.0n	0.0	15	2.0m	6.0m	50u		7.0p	2.0m	125J	Δ	TO92	DD
44	MPF106	200m	4.0†	15	25	25	30m		10m	1.0n	0.0	15	2.5m	6.0m	50u%		5.0p#	2.0m	125J	Ø	TO72	DH
45	MPF107	200m	6.0†	15	25	25	30m		20m	1.0n	0.0	15	4.0m	8.0m	75u%		5.0p#	2.0m	125J	Ø	TO72	DH
46	MPF111	200m	10†	10Δ	20	20		10m	20mΔ%	100n	0.0	10	500ut	3.0mΔ	20u*		4.5p#*	2.0m	125J		TO92	DD
47	MPF112	200m	10†	10Δ	25	25		10m	25mΔ%	100n	0.0	10	1.0mt	7.5m			8.0p#*	2.0m	125J		TO92	DD
48	NF501	200m	8.0†	15	15	15Δ		1.0m	30m%	50n	0.0	10	4.5mΔ	†		180 †	3.0p#*	2.0m	125J	#	TO72	DH
49	NF522	200m	8.0†	15	20	20Δ		1.0m	10m	10n	0.0	15	500u	2.0mΔ			4.0p#*	2.0m	125J	#Ø	TO72	DH
50	NF523	200m	8.0†	15	20	20Δ		1.0m	2.0m	10n	0.0	15	400u	1.2mΔ			4.0p#*	2.0m	125J	#Ø	TO72	DH
51	NF532	200m	8.0†	15	20	20Δ		1.0m	10m	8.0n	0.0	15	500u	2.0mΔ			4.0p#*	2.0m	125J	#Ø	TO18	DBØ
52	NF533	200m	8.0†	15	20	20Δ		1.0m	2.0m	8.0n	0.0	15	400u	1.2mΔ			4.0p#*	2.0m	125J	#Ø	TO18	DBØ
53#	SES3819	200m	7.5	15	25	25		10m	20m	2.0n	0.0	15	2.0m	6.5m	50m		8.0p	2.0m		†#	TO98	DA
54	SK3116-RT	200m						10m	8.0m				7.5mΔ							#	TO104	ECØ
55	U183	200m	8.0	15		25		10m	20m	2.0n	0.0	15	1.6m%		50u%		8.0p#	2.0m	150S	#	TO72	DH
56	3N175†	225m	2.0Δ	10*	30	35	50m		5.0n	200p						200 %	5.0p#	1.8m	200S	*☑	TO72	DR
57	3N176†	225m	2.5Δ	10*	25	30	50m		10n	200p						300 %	5.0p#	1.8m	200S	*☑	TO72	DR
58	3N177†	225m	3.5Δ	10*	20	20	50m		25n	200p						500 %	7.0p#	1.8m	200S	*☑	TO72	DR
59	3N192	225m	4.0†	15Δ	20	30Δ	50m		30m	1.0n	10Ø	15	8.0m	24m	400u%		6.0p#	1.8m	150S	*	TO72	DW
60	3N193	225m	4.0†	15Δ	20	30Δ	50m		20m	10n	10Ø	15	6.0m	22m	500u%		7.0p#	1.8m	150S	*	TO72	DW
61	M116	225m	5.0Δ	*	30	30	50m	100u		100p						100 †	7.0p☑	2.2m	125J	*	TO72	DM
62	M117	225m	5.0Δ	*	30	30	50m	100u		1.0p						100 †	7.0p☑	2.2m	125J	*	TO72	DR
63	MEM554	225m	4.0†	20Δ	20	20			30m	100p	4.0	15	10m	13mΔ			5.0p#*	2.2m	125J	§*	TO72	DX
64	MEM554C	225m	4.0†	20Δ	20	10			30m	1.0n	4.0	15	8.0m	11mΔ			5.0p#*	2.2m	125J	§*	TO72	DX
65	MEM557C	225m	4.0†	15Δ	20	10			30m	100p	10Ø	15	6.0m	8.0mΔ		200	5.0p#	2.2m	125J	*	TO72	DW
66	MEM562†	225m	4.0Δ	4.0*	20	10			10n	10p	2.0Ø	10	60m			150 †	4.0p#	2.2m	125J	*	TO72	DR
67	MEM563†	225m	4.0Δ	*	20	10			10n	10p	2.0Ø	10	2.0m			50	5.0p#	2.2m	125	*	TO72	DR
68	MEM563C†	225m	4.0Δ	*	20	10			10n	10p	2.0Ø	10	2.0m			150 %	6.0p#	2.2m	125	*	TO72	DR
69	MEM564C	225m	4.0†	20$	20	6.0			30m	10n	10Ø	15	8.0m	12mΔ			8.0p#	2.2m	125J	§*	TO72	DX
70	MEM614	225m	4.0†	15Δ	20	6.0			20m		5.0Ø	15	6.0m	10mΔ			8.0p#	1.8m	150J	§*	TO72	DX
71	MEM655	225m	4.0†	15Δ	20	6.0	50m		20m	100n	4.0	15	6.0m	10mΔ		30	7.0p#	3.0m	150J	*Ø	TO72	DW
72	MEM711†	225m	1.5Δ	1.5*	25	30			10n	1.0n	2.0Ø	10	1.0m			100 %	6.0p#	1.8m	150J	*	TO72	DR
73	MMT3823	225m	8.0†	15Δ	30	30		10m	20m%	1.0n	0.0	15	3.0m%	8.0mt	25u*		4.0p#*	2.0m	135J	*Ø	u43	DD
74#	3SK37	230m	3.0†	10$	20†	8.0	25m		10m*	1.0u	5.0Ø	10	7.0m%	9.5mΔ	400u		4.0p#*	2.2m	150S	*$	TO72	DX☑
75	2N3921▼	250m	3.0†	10	50	50	10m	250p		1.0n	0.0	10	1.5u%	7.5u%	35u%		18p#	1.7m	200S	Ø	L21	
76	2N3922▼	250m	3.0†	10	50	50	10m	250p		1.0n	0.0	10	1.5u%	7.5u%	35u%		18p#	1.7m	200S	Ø	L21	
77	2N3934▼	250m	3.0†	10	50	50	1.3m	100p		400p	0.0	10	300u%	900u%	10u%		7.0p#	1.7m	200S	Ø	L21	
78	2N3935▼	250m	3.0†	10	50	50	1.3m	100p		400p	0.0	10	300u%	900u%	10u%		7.0p#	1.7m	200S	Ø	L21	
79	2N3954*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	L61a	
80	2N3954A▼	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4p#		200S	Ø	L61a	
81	2N3955*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	L61a	
82	2N3955A▼	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#		200S	Ø	L61a	
83	2N3956*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	L61a	
84	2N3957*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	L61a	
85	2N3958*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	L61a	
86	2N5045▼	250m	4.5†	15		50		30m	8.0m	.25n	0.0	15	1.5m	6.0m	25u		8.0p#	1.7m	200S	§#	L21	
87	2N5046▼	250m	4.5†	15		50		30m	8.0m	.25n	0.0	15	1.5m	6.0m	25u		8.0p#	1.7m	200S	§#	L21	
88	2N5047▼	250m	4.5†	15		50		30m	8.0m	.25n	0.0	15	1.5m	6.0m	25u		8.0p#	1.7m	200S	§#	L21	
89	2N5196▼	250m	4.0†	20Δ	50	50		50m	7.0m	25p	0.0	20	1.0m	4.0m	50u%		6.0p#	2.0m	200S	§#	L61	
90	2N5197▼	250m	4.0†	20Δ	50	50		50m	7.0m	25p	0.0	20	1.0m	4.0m	50u%		6.0p#	2.0m	200S	§#	L61	
91	2N5198▼	250m	4.0†	20Δ	50	50		50m	7.0m	25p	0.0	20	1.0m	4.0m	50u%		6.0p#	2.0m	200S	§#	L61	
92	2N5199▼	250m	4.0†	20Δ	50	50		50m	7.0m	25p	0.0	20	1.0m	4.0m	50u%		6.0p#	2.0m	200S	§#	L61	
93	2N5452	250mt	4.5†	20Δ	50Δ	50Δ		50m	5.0mΔ	100p	0.0	20	1.0m	3.0m	3.0u		4.0p#	2.8m	200J	#Ø	L58	
94	2N5453	250mt	4.5†	20Δ	50Δ			50m	5.0mΔ	100p	0.0	20	1.0m	3.0m	3.0u		4.0p#	2.8m	200J	#Ø	L58	
95	2N5454	250mt	4.5†	20Δ	50Δ			50m	5.0mΔ	100p	0.0	20	1.0m	3.0m	3.0u		4.0p#	2.8m	200J	#Ø	L58	
96	2N5515▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	§Ø	L61	
97	2N5516▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	§Ø	L61	
98	2N5517▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	§Ø	L61	
99	2N5518▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	§Ø	L61	
100	2N5519▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	Ø	L61	
101	2N5520▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	Ø	L61	
102	2N5521▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	Ø	L61	
103	2N5522▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	Ø	L61	
104	2N5523▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	Ø	L61	
105	2N5524▼	250m	4.0†	20Δ	40	40		50m	7.5m	250p	0.0	20	1.0m	4.0m	10u%		25p#	2.0m	150S	Ø	L61	
106	2N5545▼	250m	4.5†	15		50		50p	8.0m	100p			1.5m	6.0m	25u		6.0p☑	1.7m	200S	#Ø	L61a	
107	JAN2N5545▼	250m	4.5†	15		50		30m	8.0m	1.0u	0.0	15	1.5m	6.0m	25u%		6.0p#	1.6m	200S		L21	
108	2N5546▼	250m	4.5†	15		50		50p	8.0m	100p			1.5m	6.0m	25u		6.0p☑	1.7m	200S	#Ø	L61a	
109	JAN2N5546▼	250m	4.5†	15		50		30m	8.0m	1.0u	0.0	15	1.5m	6.0m	25u%		6.0p#	1.6m	200S		L21	
110	2N5547▼	250m	4.5†	15		50		50p	8.0m	100p			1.5m	6.0m	25u		6.0p☑	1.7m	200S	#Ø	L61a	

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	TYPE No.	MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG.
1	JAN2N5547▼	250m	4.5†	15		50		30m	8.0m	1.0u	0.0	15	1.5m	6.0m	25u%		6.0p#	1.6m	200S		L21	
2	2N5561▼	250m	3.0†	10Δ	50	50	10m		10m%	100p	.70Ø	10	2.0m	3.0m	4.0u		7.0p#	2.8m	200S	Ø	L61a	
3	2N5562▼	250m	3.0†	10Δ	50	50	10m		10m%	100p	.70Ø	10	2.0m	3.0m	4.0u		7.0p#	2.8m	200S	Ø	L61a	
4	2N5563▼	250m	3.0†	10Δ	50	50	10m		10m%	100p	.70Ø	10	2.0m	3.0m	4.0u		7.0p#	2.8m	200S	Ø	L61a	
5	2N6483▼	250m	4.0†	20		50		100p	7.5m%	200p	.20Ø	20†	1.0m%	4.0m%	10u%		20p#	3.8m	150S	#Ø	L21	
6	2N6484▼	250m	4.0†	20		50		100p	7.5m%	200p	.20Ø	20†	1.0m%	4.0m%	10u%		20p#	3.8m	150S	#Ø	L21	
7	2N6485▼	250m	4.0†	20		50		100p	7.5m%	200p	.20Ø	20†	1.0m%	4.0m%	10u%		20p#	3.8m	150S	#Ø	L21	
8#	2SK23A	250m	5.0	10		18	20m	10m	16	10n		10	4.0m				5.0p*		120S	EPL#		
9#	3SK39	250m	3.0†	10	20	8.0	24m		24m	20n	5.0Ø	10	7.0m	18m			4.5p#*	2.5m	125J	*$	TO72	DX
10#	BF246A	250m	14	15Δ	25	25		10m	80m	5.0n	0.0	15	8.0m	17mΔ			11p*	2.0m	150J	†	TO92	DC
11#	BF246B	250m	14	15Δ	25	25		10m	140m	5.0n	0.0	15	8.0m	17mΔ			11p*	2.0m	150J	†	TO92	DC
12#	BF246C	250m	14	15Δ	25	25		10m	250m	5.0n	0.0	15	8.0m	17mΔ			11p*	2.0m	150J	†	TO92	DC
13#	BF247A	250m	14	15	25	25		10m	80m%	5.0n	0.0	15	8.0m	17m			11p	2.0m	150S	PE†	X55c	DD
14#	BF247B	250m	14	15	25	25		10m	140m%	5.0n	0.0	15	8.0m	17m			11p	2.0m	150S	PE†	X55c	DD
15#	BF247C	250m	14	15	25	25		10m	250m%	5.0n	0.0	15	8.0m	17m			11p	2.0m	150S	PE†	X55c	DD
16#	BFQ10▼	250mt	3.5†	30		30Δ	30m	10m	10m%	100p	.20Ø	15†	1.0m				8.0p	2.0m	200J	PE§#	L21	
17#	BFQ11▼	250mt	3.5†	30		30Δ	30m	10m	10m%	100p	.20Ø	15†	1.0m				8.0p	2.0m	200J	PE§#	L21	
18#	BFQ12▼	250mt	3.5†	30		30Δ	30m	10m	10m%	100p	.20Ø	15†	1.0m				8.0p	2.0m	200J	PE§#	L21	
19#	BFQ13▼	250mt	3.5†	30		30Δ	30m	10m	10m%	100p	.20Ø	15†	1.0m				8.0p	2.0m	200J	PE§#	L21	
20#	BFQ14▼	250mt	3.5†	30		30Δ	30m	10m	10m%	100p	.20Ø	15†	1.0m				8.0p	2.0m	200J	PE§#	L21	
21#	BFQ15▼	250mt	3.5†	30		30Δ	30m	10m	10m%	100p	.20Ø	15†	1.0m				8.0p	2.0m	200J	PE§#	L21	
22#	BFQ16▼	250mt	3.5†	30		30Δ	30m	10m	10m%	100p	.20Ø	15†	1.0m				8.0p	2.0m	200J	PE§#	L21	
23#	BFX63	250m	4.5†	20	30	30	50m		30m		5Ø	20	1.3m	2.5mΔ		.18kt	.75pØ	2.5m	125J	*	TO33	DW
24#	BSX82Ø	250m			30	30	50m		30m							.18kt	.75pØ	2.5m	125J	*	TO33	DW
25#	C94E	250m	5.0	10	25Δ	25Δ		50m	10m	500u		10	2.0m	3.0mΔ			3.0pt*	2.0m	150A	ØØ	TO92	DA
26#	C95E	250m	8.0	10	25Δ	25Δ		50m	18m	500u		10	2.0m	4.0mΔ			3.0pt*	2.0m	150A	ØØ	TO92	DA
27#	C96E	250m	8.0	10	25Δ	25Δ		50m	18m	2.0n		10	2.0m				3.0pt*	2.0m	150A	ØØ	TO92	DA
28	E100	250m	10	20		30		50m	20m	.50n	0.0	20	.50m			3.0k	8.0p#	2.5m	125S	#Ø	X45	DB
29	E101	250m	1.5	20		30		50m	1.0m	.50n	0.0	20	.50m			3.0k	8.0p#	2.5m	125S	#Ø	X45	DB
30	E102	250m	4.0	20		30		50m	4.5m	.50n	0.0	20	1.0m			1.2k	8.0p#	2.5m	125S	#Ø	X45	DB
31	E103	250m	10	20		30		50m	20m	.50n	0.0	20	1.5m			.65k	8.0p#	2.5m	125S	#Ø	X45	DB
32#	ESM25▼	250m	4.5†	15Δ	30	30	15m	10m	10m	100p	0.0	15	1.0m	5.0m	50u%		6.0p#	2.5m	175J	§Δ	L61a	
33#	ESM25A	250m	4.5†	15Δ	30	30	15m	10m	10m	100p	0.0	15	1.0m	5.0m	50u%		6.0p#	2.5m	175J	§Δ	L61a	
34	IMF3954▼	250mt	4.5†	20	40	40		50m	5.0m	100p	0.0	20	1.0m	3.0m	5.0u%		5.0p#	2.8m	200J	D#Ø	L58	
35	IMF3954A▼	250mt	4.5†	20	40	40		50m	5.0m	100p	0.0	20	1.0m	3.0m	5.0u%		5.0p#	2.8m	200J	D#Ø	L58	
36	IMF3955▼	250mt	4.5†	20	40	40		50m	5.0m	100p	0.0	20	1.0m	3.0m	5.0u%		5.0p#	2.8m	200J	D#Ø	L58	
37	IMF3955A▼	250mt	4.5†	20	40	40		50m	5.0m	100p	0.0	20	1.0m	3.0m	5.0u%		5.0p#	2.8m	200J	D#Ø	L58	
38	IMF3956▼	250mt	4.5†	20	40	40		50m	5.0m	100p	0.0	20	1.0m	3.0m	5.0u%		5.0p#	2.8m	200J	D#Ø	L58	
39	IMF3957▼	250mt	4.5†	20	40	40		50m	5.0m	100p	0.0	20	1.0m	3.0m	5.0u%		5.0p#	2.8m	200J	D#Ø	L58	
40	IMF3958▼	250mt	4.5†	20	40	40		50m	5.0m	100p	0.0	20	1.0m	3.0m	5.0u%		5.0p#	2.8m	200J	D#Ø	L58	
41▼#	MEF3954	250m	4.5†	20Δ		50Δ			5.0m	100p	0.0	20	1.0m	3.0m			4.0p	2.9m	200S		R148	
42▼#	MEF3955	250m	4.5†	20Δ		50Δ			5.0m	100p	0.0	20	1.0m	3.0m			4.0p	2.9m	200S		R148	
43▼#	MEF3956	250m	4.5†	20Δ		50Δ			5.0m	100p	0.0	20	1.0m	3.0m			4.0p	2.9m	200S		R148	
44▼#	MEF3957	250m	4.5†	20Δ		50Δ			5.0m	100p	0.0	20	1.0m	3.0m			4.0p	2.9m	200S		R148	
45▼#	MEF3958	250m	4.5†	20Δ		50Δ			5.0m	100p	0.0	20	1.0m	3.0m			4.0p	2.9m	200S		R148	
46▼#	MEF5561	250m	3.0†	10Δ		50Δ			10m	100p	.70Ø	10	2.0m	3.0m			8.0p	2.8m	200S		R148	
47▼#	MEF5562	250m	3.0†	10Δ		50Δ			10m	100p	.70Ø	10	2.0m	3.0m			8.0p	2.8m	200S		R148	
48▼#	MEF5563	250m	3.0†	10Δ		50Δ			10m	100p	.70Ø	10	2.0m	3.0m			8.0p	2.8m	200S		R148	
49	SU2098▼	250m	4.0	10		30Δ			8.0m	.40n	0.0	10	1.0m				7.0p#	1.7m	200J	Ø	L21	
50	SU2098A▼	250m	4.0†	10		50		50p	8.0m	100p	0.0	10	1.5m	4.5m	15u%		6.0p#	1.7m	200J	§Ø	L21	
51	SU2098B▼	250m	4.0†	10		50		50p	8.0m	100p	0.0	10	1.5m	4.5m	15u%		6.0p#	1.7m	200J	§Ø	L21	
52	SU2099▼	250m	4.0	10		30Δ			8.0m	.40n	0.0	10	1.0m				7.0p#	1.7m	200J	Ø	L21	
53	SU2099A▼	250m	4.0†	10		50		50p	8.0m	100p	0.0	10	1.5m	4.5m	15u%		6.0p#	1.7m	200J	§Ø	L21	
54	U257▼	250m	5.0	10		25		50m	40m%	100p	5.0Ø	10	5.0m	10m			5.0p#	3.8m	150S	#	L54b	
55	UC2147	250m	50	20	30	30		10m		.20n	0.0	20	1.0m		50u	1.2k	6.0p#		200J	PL§Ø	L58	
56	2N3066	300m	9.5	30		50Δ		100m	4.0m	1.0n	0.0	30	400u	1.0m	50u†		10p%	1.7m	200C		TO18	DBØ
57	2N3067	300m	4.5	30		50Δ		100m	1.0m	1.0n	0.0	30	300u	1.0m	20u†		10p%	1.7m	200C		TO18	DBØ
58	2N3068	300m	2.2	30		50Δ		100m	250u	1.0n	0.0	30	200u	1.0m	5.0u†		10p%	1.7m	200C		TO18	DBØ
59	2N3365	300m	12	20		40Δ		10m	4.0m	5.0n	0.0	30	.40m	2.0m	50u		15p%	2.4m	150C		TO18	DBØ
60	2N3366	300m	6.5	20		40Δ		10m	1.0m	5.0n	0.0	30	.25m	1.0m	20u		15p%	2.4m	150C		TO18	DBØ
61	2N3367	300m	2.2	20		40Δ		10m	.25m	5.0n	0.0	30	.10m	1.0m	10u		15p%	2.4m	150C		TO18	DBØ
62	2N3368	300m	12	20		40Δ		10m	12m	5.0n	0.0	30	1.0m	4.0m	80u		20p%	2.4m	150C		TO18	DBØ
63	2N3369	300m	6.5	20		40Δ		10m	2.5m	5.0n	0.0	30	.60m	2.5m	30u		20p%	2.4m	150C		TO18	DBØ
64	2N3370	300m	3.2	20		40Δ		10m	.60m	5.0n	0.0	30	.30m	2.5m	15u		20p%	2.4m	150C		TO18	DBØ
65	2N3436	300m	9.8	20		50Δ		10m	15m	.50n	0.0	20	2.5m	10m	35u†		18p%	1.7m	200C		TO18	DBØ
66	2N3437	300m	4.8	20		50Δ		10m	4.0m	.50n	0.0	20	1.5m	6.0m	20u†		18p%	1.7m	200C		TO18	DBØ
67	2N3438	300m	2.3	20		50Δ		10m	1.0m	.50n	0.0	20	.80m	4.5m	5.0u†		18p%	1.7m	200C		TO18	DBØ
68	2N3452	300m	9.8	20		50Δ		10m	4.0m	.10n	0.0	30	.20m	1.2m	15u		6.0p%	1.7m	200C		TO18	DBØ
69	2N3453	300m	4.8	20		50Δ		10m	1.0m	.10n	0.0	30	.15m	.90m	5.0u		6.0p%	1.7m	200C		TO72	DH
70	2N3454	300m	2.3	20		50Δ		10m	.25m	.10n	0.0	30	.10m	.60m	3.0u		6.0p%	1.7m	200C		TO72	DH
71	2N3455	300m	10	20		50Δ		10m	4.0m	.04n	0.0	30	.40m	1.2m	15u		5.0p%	1.7m	200C		TO72	DH
72	2N3456	300m	4.8	20		50Δ		10m	1.0m	.04n	0.0	30	.30m	.90m	5.0u		5.0p%	1.7m	200C		TO72	DH
73	2N3457	300m	2.3	20		50Δ		10m	.25m	.04n	0.0	30	.15m	.60m	3.0u		5.0p%	1.7m	200C		TO72	DH
74	2N3458	300m	8.0†	20		50		10m	15m	250p	0.0	20	2.5m	10m			18p	1.7m	200S	Ø	TO18	DBØ
75	2N3459	300m	4.0†	20		50		10m	4.0m	250p	0.0	20	1.5m	6.0m			18p	1.7m	200S	Ø	TO18	DBØ
76	2N3460	300m	2.0†	20		50		10m	1.0m	250p	0.0	20	800u	4.5m			18p	1.7m	200S	Ø	TO18	DBØ
77	2N3631	300m	6.0†	10	20†		20m		10m		0.0	10	1.4m	2.8m	120u%		7.5p%	2.0m	200S	*	TO18	DAØ
78	JAN2N3821	300m	4.0†	15	50	50		10m	2.5m	100p	0.0	15	1.5m	4.5mt	10u*		6.0p#	2.0m	200S	Ø	TO72	DH
79	JAN2N3822	300m	6.0†	15	50	50		10m	10m	100p	0.0	15	3.0m	6.5mt	20u*		6.0p#	2.0m	200S	Ø	TO72	DH
80	2N3823	300m	8.0	15Δ	30	30Δ			20m	.50n	0.0	15	3.5m	6.5m	200u		6.0p#	2.0m	200S		TO72	DH
81	JAN2N3823	300m	8.0†	15	30	30		10m	20m	500p	0.0	15	3.5m	6.5mt	35u*		6.0p#	2.0m	200S	Ø	TO72	DH
82	2N3824	300m		Δ	50	50Δ		10m		100p							6.0p#	2.0m	200S	Ø	TO72	DH
83	2N3966†	300m		Δ	30	30Δ		10m	2.0m	100p							6.0p#	1.7m	200S		TO72	DH
84	2N3967	300m	5.0†	20Δ	30	30		10m	10m	.10n	0.0	20	1.6m	2.4m	35u%		5.0p#	1.7m	200S		TO72	DH
85	2N3967A	300m	5.0†	20Δ	30	30		10m	10m	.10n	0.0	20	1.6m	2.4m	35u%		5.0p#	1.7m	200S		TO72	DH
86	2N3968	300m	3.0†	20Δ	30	30		10m	5.0m	.10n	0.0	20	1.4m	2.0m	15u%		5.0p#	1.7m	200S		TO72	DH
87	2N3968A	300m	3.0†	20Δ	30	30		10m	5.0m	.10n	0.0	20	1.4m	2.0m	15u%		5.0p#	1.7m	200S		TO72	DH
88	2N3969	300m	1.7†	20Δ	30	30		10m	2.0m	.10n	0.0	20	.95m	1.4m	5.0u%		5.0p#	1.7m	200S		TO72	DH
89	2N3969A	300m	1.7†	20Δ	30	30		10m	2.0m	.10n	0.0	20	.95m	1.5m	5.0u%		5.0p#	1.7m	200S		TO72	DH
90	2N4117	300m	1.8	10Δ	40	40	50m	50m	.09mΔ	.01n	0.0	10	70m%	210m	3.0u		3.0p#	2.0m	175S		TO72	DH
91	2N4117A	300m	1.8†	10Δ	40	40	50m	50m	90u	1.0p	0.0	10	70u	210u	3.0u%		3.0p#	2.0m	175S		TO72	DH
92	2N4118	300m	3.0	10Δ	40	40	50m	50m	.24mΔ	.01n	0.0	10	80m%	250m	5.0u		3.0p#	2.0m	175S		TO72	DH
93	2N4118A	300m	3.0†	10Δ	40	40	50m	50m	240u	1.0p	0.0	10	80u	250u	5.0u%		3.0p#	2.0m	175S		TO72	DH
94	2N4119	300m	6.0	10Δ	40	40	50m	50m	.60mΔ	.01n	0.0	10	100m%	330m	10u		3.0p#	2.0m	175S		TO72	DH
95	2N4119A	300m	6.0†	10Δ	40	40	50m	50m	600n	1.0p	0.0	10	100u	330u	10u%		3.0p#	2.0m	175S		TO72	DH
96	2N4139	300m	8.0†	20Δ	50	50		10m	11m	1.0n	0.0	20	3.5m	7.0m	35u		18p#	1.7m	200S	Ø	TO18	DBØ
97	2N4220	300m	4.0†	15Δ	30	30	15m	10m	3.0m	100p	0.0	15	1.0m	4.0m	10u		6.0p#	2.0m	200S		TO72	DJ
98	2N4220A	300m	4.0†	15Δ	30	30	15m	10m	3.0m	100p	0.0	15	1.0m	4.0m	10u		6.0p#	2.0m	200S	Ø	TO72	DJ
99	2N4221	300m	6.0†	15Δ	30	30	15m	10m	6.0m	100p	0.0	15	2.0m	5.0m	20u		6.0p#	2.0m	200S		TO72	DJ
100	2N4221A	300m	6.0†	15Δ	30	30	15m	10m	6.0m	100p	0.0	15	2.0m	5.0m	20u		6.0p#	2.0m	200S	Ø	TO72	DJ
101	2N4222	300m	8.0†	15Δ	30	30	15m	10m	15m	100p	0.0	15	2.5m	6.0m	40u		6.0p#	2.0m	200S		TO72	DJ
102	2N4222A	300m	8.0†	15Δ	30	30	15m	10m	15m	100p	0.0	15	2.5m	6.0m	40u		6.0p#	2.0m	200S	Ø	TO72	DJ
103	2N4223	300m	8.0†	15Δ	30	30	20m	10m	18m%	.25n	0.0	15	3.0mt	7.0mt				2.0m	175J	Ø	TO72	DJ
104	2N4224	300m	8.0†	15Δ	30	30	20m	10m	20m%	.50n	0.0	15	2.0mt	7.5mt				2.0m	175J		TO72	DJ
105	2N4302	300m	4.0	20	30Δ	30Δ		10m	5.0m	1.0n	0.0	20		1.0m	50u%		6.0p#	2.5m	125J		R97b	
106	2N4303	300m	6.0	20	30Δ	30Δ		10m	10m	1.0n	0.0	20		2.0m	50u%		6.0p#	2.5m	125J		R97b	
107	2N4304	300m	10	20	30Δ	30Δ		10m	15m	1.0n	0.0	20		1.0m	50u%		6.0p#	2.5m	125J		R97b	
108	2N4338	300m	1.0†	15Δ	50Δ	50		50m	.60m		0.0	15	.60m	1.8m	.50u	2.5kt	7.0p#	10m	200S		TO18	DBØ
109	2N4339	300m	1.8†	15Δ	50Δ	50		50m	1.5m	.10n	0.0	15	.80m	2.4m	15u	1.7kt	7.0p#	2.0m	200S		TO18	DBØ
110	2N4340	300m	3.0†	15Δ	50Δ	50		50m	3.6m	.10n	0.0	15	1.3m	3.0m	30u	1.5kt	7.0p#	2.0m	200S		TO18	DBØ

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L C Y200 E 0 s/a A D TO200 D E Ser.
1	2N4341	300m	6.0†	15Δ	50Δ	50		50m	9.0m	.10n	0.0	15	2.0m	4.0m	60u	.80k†	7.0p#	2.0m	200S		TO18 DBØ
2	2N4351†	300m	5.0Δ	10*	30	30	30m		10n	10p							5.0p#	1.7m	200S	☑	TO72 DR
3	2N4416	300m	6.0†	15Δ	30	30		10m	15m	100p	0.0	15	4.5m%	7.5m%	50u%		4.0p#	1.7m	200S	Ø	TO72 DH
4	2N4416A	300m	6.0†	15Δ	35	35		10m	15m	.10n	0.0	15	4.5m	7.5m	50u		4.0p#	1.7m	200S	Ø	TO72 DH
5	JAN2N4416A	300m	6.0†	15	35	35		10m	15m%	100p	0.0	15	4.5m	7.5m†	50u%		4.0p#	1.7m	200S	#Ø	TO72 DH
6	2N4867	300m	2.0†	20Δ	40	40	50m	50m	1.2m	.25n	0.0	20	.70m	2.0m	1.5u		25p#	1.7m	175S	Ø	TO72 DH
7	2N4867A	300m	2.0†	20	40	40	50m	50m	1.2m	.25n	0.0	20	.70m	2.0m	1.5u		25p#	1.7m	175S	#Ø	TO72 DH
8	2N4868	300m	3.0†	20Δ	40	40	50m	50m	3.0m	.25n	0.0	20	1.0m	3.0m	4.0u		25p#	1.7m	175S	Ø	TO72 DH
9	2N4868A	300m	3.0†	20	40	40	50m	50m	3.0m	.25n	0.0	20	1.0m	3.0m	4.0u		25p#	1.7m	175S	#Ø	TO72 DH
10	2N4869	300m	5.0†	20Δ	40	40	50m	50m	7.5m	.25n	0.0	20	1.3m	4.0m	10u		25p#	1.7m	175S	Ø	TO72 DH
11	2N4869A	300m	5.0†	20	40	40	50m	50m	7.5m	.25n	0.0	20	1.3m	4.0m	10u		25p#	1.7m	175S	#Ø	TO72 DH
12	2N5078	300m	8.0†	15Δ	30	30Δ	30m	10m	25m	.25n	0.0	15	4.5m	10m	150u		6.0p#	1.7m	200S	Ø	TO72 DGØ
13	2N5103	300m	4.0†	15Δ	25Δ	25	30m	10m	8.0m	100p	0.0	15	2.0m	8.0m	100u		1.0p#	1.7m	200S		TO72 DH
14	2N5104	300m	4.0†	15Δ	25Δ	25	30m	10m	6.0m	100p	0.0	15	3.5m	7.5m	100u		1.0p#	1.7m	200S		TO72 DH
15	2N5105	300m	4.0†	15Δ	25Δ	25	30m	10m	15m	100p	0.0	15	5.0m	10m	100u		1.0p#	1.7m	200S		TO72 DH
16	2N5358	300m	3.0†	15		40			1.0m	.10n	0.0	15	1.0m	3.0m	10u		6.0p#	2.0m	175J	Ø#	TO72 DJ
17	2N5359	300m	4.0†	15		40			1.6m	.10n	0.0	15	1.2m	3.6m	10u		6.0p#	2.0m	175J	Ø#	TO72 DJ
18	2N5360	300m	4.0†	15		40			3.0m	.10n	0.0	15	1.4m	4.2m	20u		6.0p#	2.0m	175J	Ø#	TO72 DJ
19	2N5361	300m	6.0†	15		40			5.0m	.10n	0.0	15	1.5m	4.5m	20u		6.0p#	2.0m	175J	Ø#	TO72 DJ
20	2N5362	300m	7.0†	15		40			8.0m	.10n	0.0	15	2.0m	5.5m	40u		6.0p#	2.0m	175J	Ø#	TO72 DJ
21	2N5363	300m	8.0†	15		40			14m	.10n	0.0	15	2.5m	6.0m	40u		6.0p#	2.0m	175J	Ø#	TO72 DJ
22	2N5364	300m	8.0†	15		40			18m	.10n	0.0	15	2.7m	6.5m	60u		6.0p#	2.0m	175J	Ø#	TO72 DJ
23	2N5391	300m	2.0†	20	70	70		10m	1.5m	.20n	0.0	20	1.5m	4.5m	4.0u		18p#	1.7m	200S	#Ø	TO18 DBØ
24	2N5392	300m	2.5†	20	70	70		10m	3.0m	.20n	0.0	20	2.0m	6.0m	7.0u		18p#	1.7m	200S	#Ø	TO18 DBØ
25	2N5393	300m	3.0†	20	70	70		10m	4.5m	.20n	0.0	20	3.0m	6.5m	10u		18p#	1.7m	200S	#Ø	TO18 DBØ
26	2N5394	300m	4.0†	20	70	70		10m	6.0m	.20n	0.0	20	4.0m	7.0m	15u		18p#	1.7m	200S	#Ø	TO18 DBØ
27	2N5395	300m	4.0†	20	70	70		10m	8.0m	.20n	0.0	20	4.5m	7.0m	20u		18p#	1.7m	200S	#Ø	TO18 DBØ
28	2N5396	300m	5.0†	20	70	70		10m	10m	.20n	0.0	20	4.5m	7.5m	25u		18p#	1.7m	200S	#Ø	TO18 DBØ
29	2N5397	300m	6.0†	10	25	25		10m	30m△%	.10n		10	6.0m	10m	200u		5p#	1.7m	200S	Ø#	TO72 DH
30	2N5398	300m	6.0†	10	25	25		10m	40m△%	.10n		10	5.5m	10m	400u		5.5p#	1.7m	200S	#	TO72 DH
31	2N5432†	300m	10†	5.0	25	25	400m	100m	150m%	200p						5.0	30p#	2.3m	150S	#	TO52 DJ
32	2N5433†	300m	9.0†	5.0	25	25	400m	100m	100m%	200p						7.0	30p#	2.3m	150S	#	TO52 DJ
33	2N5434†	300m	4.0†	5.0	25	25	400m	100m	30m△%	.20n						.01k	30p#	2.3m	150S	#	TO52 DJ
34	2N5556	300m	4.0†	15		30			2.5m	.10n	0.0	15	1.5m	6.5m	20u%		6.0p#	2.0m	200S	Ø#	TO72 DH
35	2N5557	300m	5.0†	15		30			5.0m	.10n	0.0	15	1.5m	6.5m	20u%		6.0p#	2.0m	200S	Ø#	TO72 DH
36	2N5558	300m	6.0†	15		30			10m	.10n	0.0	15	1.5m	6.5m	20u%		6.0p#	2.0m	200S	Ø#	TO72 DH
37	2N5592	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	TO72 DH
38	2N5593	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	TO72 DH
39	2N5594	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	TO72 DH
40	2N5647	300m	1.8†	15		50		10m	600u%	10p	.20Ø	15	300u	600u	5.0u%		3.0p	1.7m	150S	Ø#	TO72 DG
41	2N5648	300m	2.4†	15		50		10m	6.0m%	10p	.40Ø	15	400u	800u	7.0u%		3.0p	1.7m	150S	Ø#	TO72 DG
42	2N5649	300m	3.0†	15		50		10m	1.6m%	10p	.60Ø	15	450u	900u	10u%		3.0p	1.7m	150S	Ø#	TO72 DG
43#	2SK43	300m	1.2	10		30Δ	20m	5.0m	9.9	10n		10	6.3m	20m			13p*		120S	EPL#	TO92 DD
44	3N124	300m	2.5†	15	50	50	20m	20m	2.0m	.25n	0.0	15	.50m	2.0m	2.0u	1.0k	14p	1.7m	200		TO72 DV
45	3N125	300m	4.0†	15	50	50	20m	20m	4.5m	.25n	0.0	15	.80m	2.4m	10u	.75k	14p	1.7m	200		TO72 DV
46	3N126	300m	6.5†	15	50	50	20m	20m	9.0m	.25n	0.0	15	1.2m	3.6m	20u	.50k	14p	1.7m	200		TO72 DV
47▼	3N209	300m	4.0†	15Δ	25	30Δ	30m	10m	30m	20n	4.0	15	10m%	20m%			7.0p	1.7m	200C	*$	TO72 DX
48▼#	3SK44	300m	3.3†	15	20†	6.0	45m		3.0m#Δ	100n	0.0	15	13mΔ				5.5p#*	2.7m	150J	HØ$	TO72 DX
49	40841	300m	2.0†	15Δ	18	3.0	50m	100u	10m*	60n	4.0	15	12u				11p#*	2.2m	175A	*Ø	TO72 DX
50	A5T3821	300m	4.0†	15	50Δ	50		10m	2.5m	100n	0.0	15	1.5m	4.5m†	10u%		6.0p#	2.4m	150S	PE†Ø	X55 DB
51	A5T3822	300m	6.0†	15	50Δ	50		10m	10m	100n	0.0	15	3.0m	6.5m†	20u%		6.0p#	2.4m	150S	PE†Ø	X55 DB
52	A5T3823	300m	8.0	15	30Δ	30		10m	20m	500p	0.0	15	3.5m	6.5m†	35u%		6.0p#	2.4m	150S	PE†Ø	X55 DB
53	A5T3824	300m			50Δ	50		10m	24m	100p						250 %	6.0p#	2.4m	150S	PE†Ø	X55 DB
54	A5T3824Ø	300m	8.0†	15	50Δ	50	50m	10m	24m	100p						250 %	6.0p#	2.4m	150S	Ø	TO106 DBØ
55#	BC264A	300m	.50#	15Δ	30	30		10m	4.5m	10n	0.0	15	2.5m					2.3m	150J	†Ø	X55c DD
56#	BC264B	300m	.50#	15Δ	30	30		10m	6.5m	10n	0.0	15	3.0m					2.3m	150J	†Ø	X55c DD
57#	BC264C	300m	.50#	15Δ	30	30		10m	8.0m	10n	0.0	15	3.5m					2.3m	150J	†Ø	X55c DD
58#	BC264D	300m	.50#	15Δ	30	30		10m	12m	10n	0.0	15	4.0m					2.3m	150J	†Ø	X55c DD
59#	BC264L	300m	8.0†	15Δ	30	30		50m	12m%	1.0n	0.0	15	2.5m	4.5mΔ	50u%		6.0p#	2.8m	150S	PEØ	X20 DA
60#	BC264LA	300m	8.0†	15Δ	30	30		50m	4.5m%	1.0n	0.0	15	2.5m	4.5mΔ	50u%		6.0p#	2.8m	150S	PEØ	X20 DA
61#	BC264LB	300m	8.0†	15Δ	30	30		50m	6.5m%	1.0n	0.0	15	2.5m	4.5mΔ	50u%		6.0p#	2.8m	150S	PEØ	X20 DA
62#	BC264LC	300m	8.0†	15Δ	30	30		50m	8.0m%	1.0n	0.0	15	2.5m	4.5mΔ	50u%		6.0p#	2.8m	150S	PEØ	X20 DA
63#	BC264LD	300m	8.0†	15Δ	30	30		50m	12m%	1.0n	0.0	15	2.5m	4.5mΔ	50u%		6.0p#	2.8m	150S	PEØ	X20 DA
64#	BF244A	300m	8.0	15Δ	30	30	25m	10m	6.5m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	†Ø	TO92 DC
65#	BF244B	300m	8.0	15Δ	30	30	25m	10m	15m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	†Ø	TO92 DC
66#	BF244C	300m	8.0	15Δ	30	30	25m	10m	25m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	†Ø	TO92 DC
67#	BF245A	300m	8.0	15Δ	30	30	25m	10m	6.5m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	†Ø	X55c DD
68#	BF245B	300m	8.0	15Δ	30	30	25m	10m	15m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	†Ø	X55c DD
69#	BF245C	300m	8.0	15Δ	30	30	25m	10m	25m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	†Ø	X55c DD
70#	BF256A	300m†	7.5†	15Δ	30	30		10m	7.0m	5.0n	0.0	15	4.5m	5.0mΔ				2.0m	150J	†	X55c DD
71#	BF256B	300m†	7.5†	15Δ	30	30			13m	5.0n	0.0	15	4.5m	5.0mΔ				2.0m	150J	†	X55c DD
72#	BF256C	300m†	7.5†	15Δ	30	30			18m	5.0n	0.0	15	4.5m	5.0mΔ				2.0m	150J	†	X55c DD
73#	BF805	300m	6.0†	6.0Δ	30	30	13m	10m	13mΔ	2.0p	3.0Ø	6.0	3.0m	5.5m	30u		3.5p#	1.7m	200S	PE	TO72 DH
74#	BF806	300m	6.0†	6.0Δ	30	30	13m	10m	13mΔ	5.0p	3.0Ø	6.0	3.0m	5.5m	30u		3.5p#	1.7m	200S	PE	TO72 DH
75#	BF810	300m	6.0†	6.0Δ	30	30	20m	10m	20mΔ	30p	5.0Ø	6.0	5.0m	9.0m	25u		6.0p#	1.7m	200S	PE	TO72 DH
76#	BF811	300m	6.0†	6.0Δ	30	30	20m	10m	20mΔ	100p	5.0Ø	6.0	5.0m	9.0m	25u		6.0p#	1.7m	200S	PE	TO72 DH
77#	BF815	300m	6.0†	6.0Δ	30	30	40m	10m	40mΔ	100p	10Ø	6.0	10m	20m	100u		10p#	1.7m	200S	PE	TO72 dh
78#	BF816	300m	6.0†	6.0Δ	30	30	40m	10m	40mΔ	250p	10Ø	6.0	10m	20m	100u		10p#	1.7m	200S	PE	TO72 DH
79#	BF817	300m	5.0†	6.0Δ	30	30	40m	10m	40m	30p	10Ø	6.0	15m	25m	70u		13p#	1.7m	200S	PE	TO72 DH
80#	BF818	300m	5.0†	6.0Δ	30	30	40m	10m	40m	100p	10Ø	6.0	15m	25m	70u		13p#	1.7m	200S	PE	TO72 dh
81#	BFR84	300m	5.0Δ	20Δ	25	6.0	50m		100m	10n	0.0	15	10m	15mΔ			5.5p*	2.0m	175S	Ø	TO72 DX
82#	BFS21	300m	6.0	15	30	30	20m	10m	1.0m			15	1.0m					1.6m	200J	§	TO72 DH
83#	BFS21A	300m	6.0	15	30	30	20m	10m	1.0m			15	1.0m					1.6m	200J	§	TO72 DH
84#	BFW10	300m	8.0	15	30	30Δ	20m	10m	20mΔ	.50n	0.0	15			85u%		5.0p	1.7m	200	PE	TO72 DH
85#	BFW11	300m	6.0	15	30	30Δ	20m	10m	10mΔ	.50n	0.0	15			50u%		5.0p	1.7m	200	PE	TO72 DH
86#	BFW54	300m	6.0†	15	50	50		10m	10m	100p	0.0	15	3.0m	6.5m†	20u†		6.0p#	2.0m	200S	PEØ	TO18
87#	BFW55	300m	6.0†	15	50	50		10m	10m	100p	0.0	15	3.0m	6.5m†	20u†		6.0p#	2.0m	200S	PEØ	TO18
88#	BFW56	300m	6.0†	15	50	50		10m	10m	100p	0.0	15	3.0m	6.5m†	20u†		6.0p#	2.0m	200S	PEØ	TO18
89#	BFW61	300m	8.0	15	25	25	20m	10m	20mΔ%	1.0n	0.0	15	2.0m%	6.5m%	85u%		6.0p	1.7m	200J	PE#	TO72 DH
90	CM640	300m	2.2	15Δ	20Δ	20Δ	100m	100m	500u#%	400p	0.0	10	5.0m†			250 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
91	CM641	300m	2.2	15Δ	20Δ	20Δ	100m	100m	3.0m#%	400p	0.0	10	10m†	Δ		100 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
92	CM642	300m	3.0	15Δ	20Δ	20Δ	100m	100m	10m#%	400p	0.0	10	20m†	Δ		50 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
93	CM643	300m	5.0	15Δ	20Δ	20Δ	100m	100m	50m#%	400p	0.0	10	30m†	Δ		35 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
94	CM644	300m	3.0	15Δ	30Δ	30Δ	100m	100m	10m#%	400p	0.0	10	20m†	Δ		50 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
95	CM645	300m	5.0	15Δ	30Δ	30Δ	100m	100m	15m#%	400p	0.0	10	20m†	Δ		40 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
96	CM646	300m	7.0	15Δ	30Δ	30Δ	100m	100m	30m#%	400p	0.0	10	30m†	Δ		30 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
97	CM647	300m	10	15Δ	30Δ	30Δ	100m	100m	50mΔ%	400p	0.0	10	30m†	Δ		25 %	5.0pt	2.3m	200J	EΔ☑	TO18 DD
98	CM800	300m	7.0	5.0		30	400m		30m#%	400p						30 %		2.3m	150J	E#Δ	TO46 DDØ
99	DU4339	300m	1.8	15		50		50m	1.5m	100p	0.0	15	800u	2.4m		1.7k%	7.0p	2.0m	175A	#Ø	L21b
100	DU4340	300m	3.0	15		50		50m	3.6m	100p	0.0	15	1.3m	3.0m		1.5k%	7.0p	2.0m	175A	#Ø	L21b
101	FE4302	300m	4.0†	20	30	30		10m	5.0m	1.0n	0.0	20	1.0m		50u%		6.0p#	2.5m	145J	DPLØ	TO106 DB
102	FE4303	300m	6.0†	20	30	30		10m	10m	1.0n	0.0	20	2.0m		50u%		6.0p#	2.5m	145J	DPLØ	TO106 DB
103	FE4304	300m	1.0†	20	30	30		10m	15m	1.0n	0.0	20	1.0m		50u%		6.0p#	2.5m	145J	DPLØ	TO106 DB
104	FF409♦	300m	5.0	25	30Δ	30Δ		50m	35m%*	1.0n	5.0Ø	15	8.0m	25m		50		1.7m	200J	EΔ#	R135a DB
105	FF411♦	300m	5.0	25	30Δ	30Δ		50m	35m%*	1.0n	5.0Ø	15	8.0m	25m		50		1.7m	200J	E#Δ	R135b DB
106	FF600♦	300m	5.0	10Δ	15Δ	15Δ		50m	25m*	3.0n	0.0	10	8.0m				35pt	1.7m	200J	EΔ#	R150 DH
107	FF617♦	300m	5.0	10Δ	15Δ	15Δ		50m	25m*	3.0n	0.0	10	8.0m				35pt	1.7m	200J	EΔ#	R150a DH
108	FT0654A	300m	8.0†	20	50	50		50m	40mΔ	.10n	0.0	20	4.5m%	9m%	52u	.15k†	20p#	2.0m	175J	DPL	TO18 DBØ
109	FT0654B	300m	8.0†	20	50	50		50m	40mΔ	1.0n	0.0	20	4.5m%	9m%	52u	.15k†	20p#	2.0m	175J	DPL	TO18 DBØ
110	FT0654C	300m	4.0†	20	50	50		50m	12mΔ	.10n	0.0	20	3.5m%	8m%	27u	.22k†	20p#	2.0m	175J	DPL	TO18 DBØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS · N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	& Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0	PARAMETERS @25°C TEST COND Vgs	Vds	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	LEAD CONFIG DE
1	FT0654D	300m	4.0†	20	50	50		50m	12m△	1.0n	0.0	20	3.5m%	8m%	27u	.22k†	20p#	2.0m	175J	DPL	TO18	DBØ
2	HEPF2005-RT	300m		20		30	10m		10m	50p			2.0m						175J		TO72	DJ
3	ITE4391†	300m	10†	20	30	30		50m	150m%	1.0n						35 †	14p#	3.0m	125J	PE#Ø	TO106	DB
4	ITE4392†	300m	5.0†	20	30	30		50m	75m%	1.0n						65 †	14p#	3.0m	125J	PE#Ø	TO106	DB
5	ITE4393†	300m	3.0†	20	30	30		50m	30m%	1.0n						110 †	14p#	3.0m	125J	PE#Ø	TO106	DB
6	JH2101	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	L58	
7	JH2102	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	L58	
8	JH2103	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	L58	
9	JH2104	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	L58	
10	JH2105	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	L58	
11	JH2106	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	L58	
12	KE510	300m	10†	20△	30	30△		10m	50m%	10n	0.0	10	20m△			50 †	15p#*	2.0m	125A	PE#	TO106	DB
13	KE511	300m	10†	10△	20	20△		10m	50m%	100n	0.0	10	20m△			50 †	15p#*	2.0m	125A	PE#	TO106	DB
14	KE3970	300m	10†	20	40	40△			30m#%							30	16p#	2.5m	125J	Ø	TO106	DB
15	KE3971	300m	7.0†	20	40	40△			15m#%							50	16p#	2.5m	125J	Ø	TO106	DB
16	KE3972	300m	5.0†	20	40	40△			8.0m#%							80	16p#	2.5m	125J	Ø	TO106	DB
17	KE5103	300m	4.0†	20△	30	30	10m	10m	5m△	1.0n	0.0	10	1.0m		50u		5.0p	1.7m	200S	Ø	TO106	DB
18	KE5104	300m	6.0†	20△	30	30	10m	10m	10m△	1.0n	0.0	10	2.0m		50u		5.0p	1.7m	200S	Ø	TO106	DB
19	KE5105	300m	6.0†	15△	30	30	10m	10m	15m△	100p	0.0	10	4.5m	7.5m	50u		4.0p	1.7m	200S	Ø	TO106	DB
20	M100	300m	5.0	10△	20		20m		4.5m		0.0	10	1.0m	2.2m		350	7.5p#	2.0m	200S	*	TO18	DAØ
21	M101	300m	8.0	10△	20		20m		12m		0.0	10	1.5m	3.3m		300	7.5p#	2.0m	200S	*	TO18	DAØ
22♦#	MEF101	300m	10	20	30△	30△			20m	500p	0.0	20		500u			8.0p	2.5m	125J	Ø	TO106	DB
23♦#	MEF102	300m	20†	20		40△			1.0m	100p	0.0	20		1.0m			8.0p	1.7m	200S	Ø	TO106	DB
24▼#	MEF3458	300m	8.0†	20		50△			15m	200p	0.0	20	2.5m	10m			5.0p	1.7m	200S	Ø	TO106	DB
25▼#	MEF3459	300m	4.0†	20		50△			4.0m	250p	0.0	20	1.5m	6.0m			5.0p	1.7m	200S	Ø	TO106	DB
26▼#	MEF3460	300m	2.0†	20		50△			1.0m	250p	0.0	20	800u	4.5m			5.0p	1.7m	200S	Ø	TO106	DB
27▼#	MEF3823	300m	8.0†	15△		30△			20m	500p	0.0	15	3.5m	6.5m			6.0p	2.0m	200S	Ø	TO106	DB
28▼#	MEF3967	300m	5.0†	20△		30△			10m	100p	0.0	20	2.5m				5.0p	1.7m	200S	Ø	TO106	DB
29▼#	MEF3968	300m	5.0†	20△		30△			5.0m	100p	0.0	20	2.0m				5.0p	1.7m	200S	Ø	TO106	DB
30▼#	MEF3969	300m	1.7†	20△		30△			2.0m	100p	0.0	20	1.3m				5.0p	1.7m	200S	Ø	TO106	DB
31▼#	MEF4220	300m	4.0†	20△		30△			3.0m	100p	0.0	15	1.0m	4.0m			6.0p	2.0m	200S	Ø	TO106	DB
32▼#	MEF4221	300m	6.0†	20△		30△			6.0m	100p	0.0	15	2.0m	5.0m			6.0p	2.0m	200S	Ø	TO106	DB
33▼#	MEF4222	300m	4.0	20		30△			15m	100p	0.0	15	2.5m	6.0m			6.0p	2.5m	125J	Ø	TO106	DB
34▼#	MEF4223	300m	8.0†	15△		30△			18m	250p	0.0	15	1.5m				6.0p	2.0m	175J	Ø	TO106	DB
35▼#	MEF4224	300m	8.0†	15△		30△			20m	500p	0.0	15	2.0m	7.5m			6.0p	2.0m	175J		TO106	DB
36▼#	MEF4338	300m	1.0†	15△		50△			600u	100p	0.0	15	600u	1.8m			6.0p	10m	200S	Ø	TO106	DB
37▼#	MEF4339	300m	1.8†	15△		50△			1.5m	100p	0.0	15	800u	2.4m			6.0p	2.0m	200S	Ø	TO106	DB
38▼#	MEF4340	300m	3.0†	15△		50△			3.6m	100p	0.0	15	1.3m	3.0m			6.0p	2.0m	200S	Ø	TO106	DB
39▼#	MEF4341	300m	6.0†	15△		50△			9.0m	100p	0.0	15	2.0m	4.0m			6.0p	2.0m	200S	Ø	TO106	DB
40▼#	MEF4416	300m	6.0†	15△		30△			15m	100p	0.0	15	4.0m	7.5m			4.0p	1.7m	200S	Ø	TO106	DB
41▼#	MEF5103	300m	4.0†	15△		25△			8.0m	100p	0.0	15	2.0m	8.0m			5.0p	1.7m	200S		TO106	DB
42▼#	MEF5104	300m	4.0†	15△		25△			6.0m	100p	0.0	15	3.5m	7.5m			5.0p	1.7m	200S		TO106	DB
43▼#	MEF5105	300m	4.0†	15△		25△			15m	100p	0.0	15	5.0m	10m			5.0p	1.7m	200S		TO106	DB
44▼#	MEF5358	300m	3.0†			40△			1.0m	100p	0.0	15	1.0m	3.0m			6.0p	2.0m	175J	Ø	TO106	DB
45▼#	MEF5359	300m	4.0†			40△			1.6m	100p	0.0	15	1.2m	3.6m			6.0p	2.0m	175J	Ø	TO106	DB
46▼#	MEF5360	300m	4.0†			40△			3.0m	100p	0.0	15	1.4m	4.2m			6.0p	2.0m	175J	Ø	TO106	DB
47▼#	MEF5361	300m	6.0†			40△			5.0m	100p	0.0	15	1.5m	4.5m			6.0p	2.0m	175J	Ø	TO106	DB
48▼#	MEF5362	300m	7.0†			40△			8.0m	100p	0.0	15	2.0m	5.5m			6.0p	2.0m	175J	Ø	TO106	DB
49▼#	MEF5363	300m	8.0†			40△			14m	100p	0.0	15	2.5m	6.0m			6.0p	2.0m	175J	Ø	TO106	DB
50▼#	MEF5364	300m	8.0†			40△			18m	100p	0.0	15	1.5m	2.7m			6.0p	2.0m	175J	Ø	TO106	DB
51▼#	MEF5391	300m	2.0†	70		70△			1.5m	200p	0.0	15	1.5m	4.5m			18p	1.7m	200S	Ø	TO106	DB
52▼#	MEF5392	300m	5.0†	20		70△			3.0m	200p	0.0	20	2.0m	6.0m			18p	1.7m	200S	Ø	TO106	DB
53▼#	MEF5393	300m	3.0†	20		70△			4.5m	200p	0.0	20	3.0m	6.5m			18p	1.7m	200S	Ø	TO106	DB
54▼#	MEF5394	300m	4.0†	20		70△			6.0m	200p	0.0	20	4.0m	7.0m			18p	1.7m	200S	Ø	TO106	DB
55▼#	MEF5395	300m	4.0†	20		70△			8.0m	200p	0.0	20	4.5m	7.0m			18p	1.7m	200S	Ø	TO106	DB
56▼#	MEF5396	300m	5.0†	20		70△			10m	200p	0.0	20	4.5m	7.5m			18p	1.7m	200S	Ø	TO106	DB
57▼#	MEF5556	300m	5.0†	15		30△			2.5m	100p	0.0	15	1.5m	6.5m			6.0p	2.0m	200S	Ø	TO106	DB
58▼#	MEF5557	300m	5.0†	15		30△			5.0m	100p	0.0	15	1.5m	6.5m			6.0p	2.0m	200S	Ø	TO106	DB
59▼#	MEF5558	300m	6.0†	15		30△			10m	100p	0.0	15	1.5m	6.5m			6.0p	2.0m	200S	Ø	TO106	DB
60	MFE120	300m	4.0	15$	25	20	30m		18m	20n	4.0	15	8.0m	18m			7.0p#	1.7m	200J	*Ø	TO72	DX
61	MFE121	300m	4.0	15$	25	20	30m		30m	20n	4.0	15	10m	20m			6.0p#	1.7m	200J	*Ø	TO72	DX
62	MFE122	300m	4.0	15$	25	20	30m		20m	20n	4.0	15	8.0m	18m			7.0p#	1.7m	200J	*Ø	TO72	DX
63	MFE130	300m	4.0†	15$	25		30m		30m	20n	4.0	15	8.0m%	20m%			4.5p#	1.7m	200J	*Ø	TO72	DN
64	MFE131	300m	4.0†	15$	25		30m		30m	20n	4.0	15	8.0m%	20m%			4.5p#	1.7m	200J	*Ø	TO72	EN
65	MFE132	300m	4.0†	15$	25		30m		30m	20n	4.0	15	8.0m%	20m%			4.5p#	1.7m	200J	*Ø	TO72	EN
66	MFE824	300m		$	20	10	30m		15m	1.0p	0.0	10	1.0m%	4.0m%			4.0p#	1.7m	200J	*	TO18	EM
67	MFE2000	300m	4.0†	15△	25	25	30m		10m	100p	0.0	15	2.5m	6.0m	50u		5.0p#	2.0m	175J	Ø	TO72	DH
68	MFE2001	300m	6.0†	15△	25	25	30m		20m	100p	0.0	15	4.0m	8.0m	75u		5.0p#	2.0m	175J	Ø	TO72	DH
69	MFE2093	300m	2.5†	15	50	50	3.0m		.70m	.10n	0.0	15	.25m	.50m	1.5u	2.5k	6.0p	2.0m	175	△	TO72	DJ
70	MFE2094	300m	4.5†	15	50	50	3.0m		1.4m	100p	0.0	15	350u	700u	3.0u	1.6k	6.0p	2.0m	175	△	TO72	
71	MFE2095	300m	5.5†	15	50	50	3.0m		3.0m	100p	0.0	15	400u	800u	10u	1.3k	6.0p	2.0m	175	△	TO72	DJ
72	MFE3004	300m	5.0†	15△	20	30	10m		10m△	50p	2.0Ø	15	500				4.5p#	2.0m	175J	*Ø	TO72	DW
73	MFE3005	300m	5.0†	15△	20	30	10m		10m△	50p	2.0Ø	15	500				4.5p#	2.0m	175J	*Ø	TO72	DW
74	MFE3006	300m	3.0†	15$	25△	35	30m		18m	1.0n	4.0	15	8.0m%	18m%			6.0p#	1.7m	175J	*Ø	TO72	DXØ
75	MFE3007	300m	3.0†	15$	25	35	30m		20m	1.0n	4.0	15	10m%	18m%			5.5p#	1.7m	175J	*Ø	TO72	DX
76	MFE3008	300m	3.0†	15$	25	35	30m		20m	1.0n	4.0	15	8.0m	18m			6.0p#	1.7m	175J	*	TO72	DX
77	MMF1▼	300m	8.0†	15△	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	X74	DH
78	MMF2▼	300m	8.0†	15△	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	X74	DH
79	MMF3▼	300m	8.0†	15△	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	X74	DH
80	MMF4▼	300m	8.0†	15△	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	X74	DH
81	MMF5▼	300m	8.0†	15△	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	X74	DH
82	MMF6▼	300m	8.0†	15△	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	X74	DH
83	NF500	300m	8.0†	15	25	25△		1.0m	30m%	10n	0.0	15	4.5m△	†		180 †	2.5p#*	2.4m	150J	Ø#	TO72	DH
84	NF506	300m	5.0†	15		25		10m	15m	1.0n	0.0	15	2.5m	7.0m	50u%		4.0p#	2.4m	150J	Ø	TO72	DH
85	NF520	300m	8.0†	15	30	30△		1.0m	10m	1.0n	0.0	15	500u	2.0m△			4.0p#*	2.4m	150J	#Ø	TO72	DH
86	NF521	300m	8.0†	15	30	30△		1.0m	2.0m	1.0n	0.0	15	400u	1.2m△			4.0p#*	2.4m	150J	#Ø	TO72	DH
87	NF530	300m	8.0†	15	30	30△		1.0m	10n	8.0n	0.0	15	500u	2.0m△			4.0p#*	2.4m	150J	#Ø	TO18	DBØ
88	NF531	300m	8.0†	15	30	30△		1.0m	2.0m	8.0n	0.0	15	400u	1.2m△			4.0p#*	2.4m	150J	#Ø	TO18	DBØ
89	NF580	300m	12†	5.0△	25	25	200m		10m	1.0n						5.0	25p	1.7m	200S	Ø	TO52	DB
90	NF581	300m	10†	5.0△	25	25	200m		10m	1.0n						6.0	35p	1.7m	200S	Ø	TO52	DB
91	NF582	300m	6.0†	5.0△	25	25	200m		10m	1.0n						10	30p	1.7m	200S	Ø	TO52	DB
92	NF583	300m	4.0†	5.0△	25	25	200m		10m	1.0n						20	30p	1.7m	200S	Ø	TO52	DB
93	NF584	300m	10†	5.0△	25	25	200m		10m	50n						10	35p	1.7m	200S	Ø	TO52	DB
94	NF3819	300m	8.0†	15	30	30	30m		10m	25m	250p	0.0	15	4.0m		150u%	300	6.0p#	2.5m	125J	Ø	TO106	DB
95	NF4302	300m	4.0†	20	30△	30△	20m		10m	5.0m△	1.0n	0.0	20		1.0m	50u%		5.0p#	2.5m	125J	Ø	TO18	DBØ
96	NF4303	300m	6.0†	20	30△	30△	20m		10m	10m△	1.0n	0.0	20		2.0m	50u%		6.0p#	2.5m	125J	Ø	TO18	DBØ
97	NF4304	300m	10†	20	30△	30△	20m		10m	10m△	1.0n	0.0	20		1.0m	50u%		6.0p#	2.5m	125J	Ø	TO18	DBØ
98	NF5163	300m	8.0†	15	25△	25△	50m		10m	40m△	10n	15	0.0	2.0m	9.0m	200u	500	20p#	2.5m	125J	Ø	TO18	DBØ
99#	NKT80421	300m	8.0	15	30△	30△			10m	12m△	100p	0.0	15	5.0m△				4.0p△	1.7m	200	#	TO72	DH
100#	NKT80422	300m	7.0	15	30△	30△			10m	10m△	100p	0.0	15	5.0m△				4.0p△	1.7m	200	#Ø	TO72	DH
101#	NKT80423	300m	8.0	15	30△	30△			10m	12m△	500p	0.0	15	6.0m△				2.0p△	1.7m	200	#Ø	TO72	DH
102#	NKT80424	300m	8.0	15	50△	50△			10m	12m△	100p	0.0	15	5.0m△			250 %	3.0p△	1.7m	200	#Ø	TO72	DH
103#	PH241N♦	300m	1.0†	15	25	25			10m	3.0m	200p	0.0	15	2.0m	7.0m			13p#	1.7	200S	PE△	X8f	DBØ
104#	PH242N♦	300m	1.5†	15	25	25			10m	6.0m	200p	0.0	15	3.5m	7.5m			13p#	1.7	200S	PE△	X8f	
105#	PH243N♦	300m	2.5†	15	25	25			10m	15m	200p	0.0	15	5.0m	10m			13p#	1.7	200S	PE△		
106#	SI241N	300m	1.0†	15	25	25			10m	3.0m	200p	0.0	15	2.0m	7.0m			18p#	1.7	200S	PE	TO18	DBØ
107#	SI242N	300m	1.5†	15	25	25			10m	6.0m	200p	0.0	15	3.5m	7.5m			18p#	1.7	200S	PE	TO18	DBØ
108#	SI243N	300m	2.5†	15	25	25			10m	15m	200p	0.0	15	5.0m	10m			18p#	1.7	200S	PE	TO18	DBØ
109	SU2080▼	300m	4.0	10					10m	.50n	.2Ø	10†	1.5m		20u		7.0p	1.7m	200J		L21	

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	TYPE No.	MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	SU2081▼	300m	4.0	10					10m	.50n	.2Ø	10†	1.5m		20u		7.0p	1.7m	200J		L21	
2	SU2365▼	300m	3.5†	15	30	30	50m	10m	10m△	100p	0.0	10	15.m		2.0u		16p	1.7m	200S	Ø	L61a	
3	SU2366▼	300m	3.5†	15	30	30	50m	10m	10m△	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	L61a	
4	SU2366A▼	300m	3.5†	15	30	30	50m	10m	10m△	50p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	L61a	
5	SU2367▼	300m	3.5†	15	30	30	50m	10m	10m△	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	L61a	
6	SU2367A▼	300m	3.5†	15	30	30	50m	10m	10m△	50p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	L61a	
7	SU2368▼	300m	3.5†	15	30	30	50m	10m	10m△	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	L61a	
8	SU2368A▼	300m	3.5†	15	30	30	50m	10m	10m△	50p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	L61a	
9	SU2369▼	300m	3.5†	15	30	30	50m	10m	10m△	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	L61a	
10	SU2410▼	300m	3.5†	10	40	40	50m	10m	1.0m△	3.0p	10	0.0	250u	1.5m	10u		3.0p	1.7m	200S	Ø	L61a	
11	SU2411▼	300m	3.5†	10	40	40	10m	10m	1.0m	3.0p	10	0.0	250u	1.5m	10u		3.0p#	1.7m	175S	Ø	L61a	
12	SU2412▼	300m	3.5†	10	40	40	10m	10m	1.0m	3.0p	10	0.0	250u	1.5m	10u		3.0p#	1.7m	125S	Ø	L61a	
13	TD5902▼	300m	2.5†	10△	40	40	50m	10m	500u△	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	175S	Ø	L61a	
14	TD5902A▼	300m	4.5†	10△	40	40	50m	10m	2.0m△	5.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	175S	Ø	L61a	
15	TD5903▼	300m	2.5†	10△	40	40	50m	10m	500u△	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	175S	Ø	L61a	
16	TD5903A▼	300m	4.5†	10△	40	40	50m	10m	2.0m△	5.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	175S	Ø	L61a	
17	TD5904▼	300m	2.5†	10△	40	40	50m	10m	500u△	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	175S	Ø	L61a	
18	TD5904A▼	300m	4.5†	10△	40	40	10m	10m	2.0m△	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
19	TD5905▼	300m	2.5†	10△	40	40	10m	10m	500u△	5.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
20	TD5905A▼	300m	4.5†	10△	40	40	10m	10m	2.0m△	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
21	TD5906▼	300m	2.5†	10△	40	40	10m	10m	500u△	2.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
22	TD5906A▼	300m	4.5†	10△	40	40	10m	10m	2.0m△	2.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
23	TD5907▼	300m	4.5†	10△	40	40	10m	10m	500u△	2.0p	0.0	10	70u		5.0u%		3.0p#	1.7m	200S	Ø	L61a	
24	TD5907A▼	300m	4.5†	10△	40	40	10m	10m	2.0m△	2.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
25	TD5908▼	300m	2.5†	10△	40	40	10m	10m	500u△	2.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
26	TD5908A▼	300m	4.5†	10△	40	40	10m	10m	2.0m△	2.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
27	TD5909▼	300m	2.5†	10△	40	40	10m	10m	500u△	2.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
28	TD5909A▼	300m	4.5†	10△	40	40	10m	10m	2.0m△	2.0p	0.0	10	400u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	L61a	
29	TD5911▼	300m	5.0†	10△	25	25	50m	10m	40m△	100p	5.0Ø	10	5.0m	10m	100u%		5.0p#	1.7m	200S	Ø	L61a	
30	TD5911A▼	300m	6.0†	10△	30	30	50m	10m	40m△	100p	5.0Ø	10	3.5m		100u%		4.0p#	1.7m	200S	Ø	L61a	
31	TD5912▼	300m	5.0†	10△	25	25	50m	10m	40m△	100p	5.0Ø	10	5.0m	10m	100u%		5.0p#	1.7m	200S	Ø#	L61a	
32	TD5912A▼	300m	6.0†	10△	30	30	50m	10m	40m△	100p	5.0Ø	10	3.5m		100u%		4.0p#	1.7m	200S	Ø#	L61a	
33	TIS14	300m	6.0		30	30		10m	15m%	1.0n	0.0	15	1.0m	7.5m†	25u*		8.0p#	2.0m	175A	PE	TO38	
34	TIS25	300m			50	50		10m	8.0m△	.25n			1.5m	6.0m	25u	.50k	8.0p	2.0m	200	PE	L21a	
35	TIS26	300m			50	50		10m	8.0m△	.25n			1.5m	6.0m	25u	.50k	8.0p	2.0m	200	PE	L21a	
36	TIS27	300m			50	50		10m	8.0m△	.25n			1.5m	6.0m	25u	.50k	8.0p	2.0m	200	PE	L21a	
37	TIXS80	300m	5.0†	10		30△		10m	25m%	10n	5Ø	10	5.0m	10m			.80p△	.50m	175J	PE$	TO72	DU
38	TIXS81	300m	10†	10		30△		10m	75m%	10n	15Ø	10	5.0m	10m			.80p△	.50m	175J	PE$	TO72	DU
39	TN4117	300m	1.8†	10△	40	40	50m	50m	90u△	10p	0.0	10	70u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
40	TN4117A	300m	1.8†	10△	40	40	50m	50m	90u△	1.0p	0.0	10	70u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
41	TN4118	300m	3.0†	10△	40	40	50m	50m	240u△	10p	0.0	10	80u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
42	TN4118A	300m	3.0†	10△	40	40	50m	50m	240u△	1.0p	0.0	10	80u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
43	TN4119	300m	6.0†	10△	40	40	50m	50m	670u△	10p	0.0	10	100u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
44	TN4119A	300m	6.0†	10△	40	40	50m	50m	600u△	1.0p	0.0	10	100u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
45	TN4338	300m	4.0†	15△	30	30△	15m	10m	3.0m	100p	0.0	15	1.0m	4.0m	10u		6.0p#	2.0m	200S	Ø	TO72	DH
46	TN4339	300m	4.0†	15△	30	30△	15m	10m	3.0m	100p	0.0	15	1.0m	4.0m	10u		6.0p#	2.0m	200S	Ø	TO72	DH
47	U184	300m	8.0	15		25		10m	30m	1.0n	0.0	15	3.0m	8.5m	75u		4.0p#	1.7m	200S	#Ø	TO72	DH
48	U197	300m	1.0	20		30		50m	1.0m	500p	0.0	20	200u			4.0k	7.0p#	2.0m	200S	#	TO18	DBØ
49	U198	300m	4.0	20		30		50m	6.0m	500p	0.0	20	600u			1.5k	7.0p#	2.0m	200S	#	TO18	DBØ
50	U199	300m	10	20		30		50m	20m	500p	0.0	20	1.5m			650	7.0p#	2.0m	200S	#	TO18	DBØ
51	U231▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	L21b	
52	U232▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	L21b	
53	U233▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	L21b	
54	U234▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	L21b	
55	U235▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	L21b	
56	U273	300m	3.0	10		30		10m	2.0m	5.0p	.20Ø	10†	500u				2.0p#	1.7m	150A	#	TO72	DH
57	U273A	300m	3.0	10		30		10m	2.0m	2.0p	.20Ø	10†	500u				2.0p#	1.7m	150A	#	TO72	DH
58	U274	300m	5.0	10		30		10m	4.0m	5.0p	.60Ø	10†	600u				2.0p#	1.7m	150A	#	TO72	DH
59	U274A	300m	5.0	10		30		10m	4.0m	2.0p	.60Ø	10†	600u				2.0p#	1.7m	150A	#	TO72	DH
60	U275	300m	7.0	10		30		10m	6.5m	5.0p	1.5Ø	10†	800u				2.0p#	1.7m	150A	#	TO72	DH
61	U275A	300m	7.0	10		30		10m	6.5m	2.0p	1.5Ø	10†	800u				2.0p#	1.7m	150A	#	TO72	DH
62	U290†	300m	10	5.0		30	1.5	100m	500m%	1.0n						2.5	160p#	2.3m	150A	#Ø	TO52	DBØ
63	U291†	300m	4.5	5.0		30	1.5	100m	200m%	1.0n						7.0	160p#	2.3m	150A	#Ø	TO52	DBØ
64	U311	300m	6.0	10		25		20n	60m%	150p	10Ø	10	10m	20m			5.0p†	1.7m	200	#	TO72	DBØ
65	U318	300m	4.0	10		25		20n	30m%	150p	10Ø	10	10m	20m			5.0p†	2.0m	200	#§	TO99	DB
66	U319	300m	6.0	10		25		20n	60m%	150p	10Ø	10	10m	20m			5.0p†	2.0m	200	#§	TO99	DB
67	U430*	300m	4.0	10		25		10m	30m%	100p	10Ø	10	10m	20m			5.0p†	2.0m	200S	Si#§	TO99	
68	U431*	300m	6.0	10		25		10m	60m%	100p	10Ø	10	10m	20m			5.0p†	2.0m	200S	Si#§	TO99	
69	U1277	300m	8.0	10		50△			8.0m	.10n	1.5Ø	10†	.45m		20u		6.0p%	1.7m	200J	DPL	TO72	DH
70	U1278	300m	4.5	10		50△			3.0m	100p	.50Ø	10†	350u		10u		6.0p%	1.7m	200J	DPL	TO72	DH
71	U1279	300m	2.5	10		50△			1.5m	.10n	.2Ø	10†	.25m		5.0u		6.0p%	1.7m	200J	DPL	TO72	DH
72	U1280	300m	10	20		50△			10m	.10n	0.0	20	.25m				6.0p%	1.7m	200J	DPL	TO72	DH
73	U1281	300m	8.0	10		50△			8.0m	.50n	8Ø	10†	3.0m		30u†	.30k†	18p%	1.7m	200J	DPL	TO18	DBØ
74	U1282	300m	4.5	10		50△			20m	.50n	4Ø	10†	2.5m		30u		18p%	1.7m	200J	DPL	TO18	DBØ
75	U1283	300m	2.5	10		50△			10m	.50n	1Ø	10†	1.5m		15u		18p%	1.7m	200J	DPL	TO18	DBØ
76	U1284	300m	10	20		50△			40m	.50n	0.0	20	1.0m				18p%	1.7m	200J	DPL	TO18	DBØ
77	U1285	300m	8.0	20		30△			.10m#	5.0n	0.0	20	.20m	1.2m			20p△	1.7m	200J	DPL	TO72	DH
78	U1286	300m	8.0	20		30△			.20m#	10n	0.0	20	1.0m	10m			8.0p△	1.7m	200J	DPL	TO18	DBØ
79	U1325	300m	1.2	10		30△			.50m	.10n	.2Ø	10	.85m	1.2m			6.0p	1.7m	200J	PEØ	TO18	DH
80	U1714	300m	5.0†	10		25			5.0m	5.0p	0.0	10	400u				3.0p#	1.7m	200J		TO18	DBØ
81	U1837E	300m	8.0†	15	30	30	30m	10m	25m	250p	0.0	15	4.0m		150u%	300	6.0p#	2.5m	125J	Ø	R97b	DB
82	U1897E†	300m	10†	20	40	40△			30m#%							30	16p#	2.5m	125J		R97b	DB
83	U1898E†	300m	7.0†	20	40	40△			15m#%							50	16p#	2.5m	125J		R97b	DB
84	U1899E†	300m	5.0†	20	40	40△			8.0m#%							80	16p#	2.5m	125J		R97b	DB
85	U1994E	300m	6.0†	15	30	30	30m		15m	100p	0.0	15	4.5m	7.5m	50u%		4.0p#	2.5m	125J	Ø	R97b	DD
86	UC100	300m	5.0	20		30		10m	7.5m	100p	0.0	20	2.0m			600 †	5.0p%		200J	PL	TO72	DH
87	UC110	300m	3.0	20		30		10m	3.0m	100p	0.0	20	1.5m			800 †	5.0p%		200J	PL	TO72	DH
88	UC115	300m	3.0	20		30		10m	3.0m	100p	0.0	20	1.5m			800 †	5.0p%		200J	PL	TO18	DD
89	UC130	300m	1.2	20		30		10m	500u	100p	0.0	20	500u			2.4k†	5.0p%		200J	PL	TO72	DH
90	UC155	300m	10	20	30△	30	30m	10m	30m	.10n						.12k	4.0p	1.7m	200	PE	TO72	
91	UC240	300m	5.0	20		50			10m	100p	0.0	20	1.2m				1.8p#		200J	E	TO18	DB
92	UC241	300m†	5.0†	20		50△		50m	10m△	.25n	0.0	20	2.0m		10u		20p#	1.7m	200J	E#	TO72	DH
93	UC703	300m	6.0	20		40		50m	10m	500p	0.0	20	500u	5.0m		2.0k†	6.0p	1.7m	200		TO72	DH
94	UC704	300m	8.0	20		40			24m	500p	0.0	20	1.0m	10m		1.0k†	8.0p			PE	TO72	
95	UC705	300m	8.0	20		40		50m	50m	1.0n	0.0	20	2.0m	20m		500 †	12p	1.7m	200		TO72	DH
96	UC714	300m	8.0	20		30		50m	20m	100p	0.0	20	2.0m	6.5m			8.0p#	1.7m	200		TO72	DH
97	UC714E	300m	8.0†	15	30	30	30m	10m	25m	250p	0.0	15	4.0m		150u%	300	6.0p#	2.5m	125J	Ø	TO106	DBØ
98	UC734	300m	8.0	15	30△	30		10m	20m△	5.0n	0.0	15	3.5m	6.5m	50u		4.0p#		200J	PL#	TO72	DH
99	UC734E	300m	8.0	15	30△	30		10m	20m△	5.0n	0.0	15	3.5m	6.5m	50u		4.0p#		200J	#†Ø	TO106	DB
100	UC751	300m	6.0	20		30			100u#	2.0n	0.0	20	350u				10p#			PE	TO18	
101	UC752	300m	6.0	20		30			300u#	6.0n	0.0	20	1.0m				17p#			PE	TO18	
102	UC753	300m	6.0	20		30			900u#	10n	0.0	20	2.5m				25p#			PE	TO18	
103	WK5457	300m	6.0†	15	25	25		10m	5.0m	1.0n	0.0	15	1.0m	5.0m	50u%		7.0p#	2.7m	135J	#	u91	DD
104	WK5458	300m	7.0†	15	25	25		10m	9.0m	1.0n	0.0	15	1.5m	5.5m	50u%		7.0p#	2.7m	135J	#	u91	DD
105	WK5459	300m	8.0†	15	25	25		10m	16m	1.0n	0.0	15	2.0m	6.0m	50u%		7.0p#	2.7m	135J	#	u91	DD
106	2N5457	310m	6.0†	15		25			5m△%	1.0n	0.0	15	1.0m	5.0m†	50u*		7.0p#	2.8m	150S	Ø#	TO92	DD
107	2N5458	310m	7.0†	15		25			9m△%	1.0n	0.0	15	1.5m	5.5m†	50u*		7.0p#	2.8m	150S	Ø#	TO92	DD
108	2N5459	310m	8.0†	15		25			16m△%	1.0n	0.0	15	2.0m	6.0m†	50u*		7.0p#	2.8m	150S	Ø#	TO92	DD
109	2N5484	310m	3.0†			25		10m	5m△	1.0n	0.0	15	3.0m	6.0m	50u		5.0p#	2.8m	150S	Ø#	TO92	DD
110	2N5485	310m	4.0†			25		10m	10m△	1.0n	0.0	15	3.5m	7.0m	60u		5.0p#	2.8m	150S	Ø#	TO92	DD

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	[2] TYPE No.	[1] MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	TEST COND Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	2N5486	310m	7.5†			25		10m	20mΔ	1.0n	0.0	15	4.0m	8.0m	75u		5.0p#	2.8m	150S	Ø#	TO92	DD
2	2N5555†	310m	1.0†	0.0	25	25	40m		15m	1.0n						.15k%	5.0p#	2.8m	150S	#	TO92	DD
3	2N5638†	310m				30Δ			50mΔ	1.0n						30 %	10p#	2.8m	150S	#⍁	TO92	DD
4	2N5639†	310m				30Δ			25mΔ	1.0n						60 %	10p#	2.8m	150S	#⍁	TO92	DD
5	2N5640†	310m				30Δ			2.0mΔ	1.0n						100 %	10p#	2.8m	150S	#⍁	TO92	DD
6	2N5653†	310m				30Δ			40mΔ	1.0n						50 %	10p#	2.8m	150S	#⍁	TO92	DD
7	2N5654†	310m				30Δ			15mΔ	1.0n						100 %	10p#	2.8m	150S	#⍁	TO92	DD
8	2N5668	310m	4.0†	15		25		10m	5.0m	2.0n	0.0	15	1.5m	6.5m	20u		7.0p#	2.8m	150S	#	TO92	DD
9	2N5669	310m	6.0†	15		25		10m	10m	2.0n	0.0	15	2.0m	6.5m	50u		7.0p#	2.8m	150S	#	TO92	DD
10	2N5670	310m	8.0†	15		25		10m	20m	2.0n	0.0	15	3.0m	7.5m	75u		7.0p#	2.8m	150S	#	TO92	DD
11	FE5457	310m	6.0†	15	25	25		10m	5.0m%	1.0n	0.0	15	1.0m†	5.0m†	50u%		7.0p#	2.8m	135J	DPL	TO106	DB
12	FE5458	310m	7.0†	15	25	25		10m	9.0m%	1.0n	0.0	15	1.5m†	5.5m†	50u%		7.0p#	2.8m	135J	DPL	TO106	DB
13	FE5459	310m	8.0†	15	25	25		10m	16m%	1.0n	0.0	15	2.0m†	6.0m†	50u%		7.0p#	2.8m	135J	DPL	TO106	DB
14	FE5484	310m	3.0†	15		25		10m	5.0m	1.0n	0.0	15	3.0m	6.0m	50u%		5.0p#	2.8m	135J	DPLØ	TO106	DD
15	FE5485	310m	4.0†	15		25		10m	10m	1.0n	0.0	15	3.5m	7.0m	60u%		5.0p#	2.8m	135J	DPLØ	TO106	DD
16	FE5486	310m	7.5†	15		25		10m	20m	1.0n	0.0	15	4.0m	8.0m	75u%		5.0p#	2.8m	135J	DPLØ	TO106	DD
17	HEPF0021-RT	310m		25		25	30m		20m	1.0n			3.5m						150J		TO92	DD
18▼#	MEF5457	310m	6.0†	15		25Δ			5.0m	1.0n	0.0	15	1.0m	5.0m			7.0p	2.8m	150S	Ø	TO106	DB
19▼#	MEF5458	310m	7.0†	15		25Δ			9.0m	1.0n	0.0	15	1.5m	5.5m			7.0p	2.8m	150S	Ø	TO106	DB
20▼#	MEF5459	310m	8.0†	15		25Δ			16m	1.0n	0.0	15	2.0m	6.0m			7.0p	2.8m	150S	Ø	TO106	DB
21▼#	MEF5484	310m	3.0†	15		25Δ			5.0m	1.0n	0.0	15	3.0m	6.0m			4.0p	2.8m	150S	Ø	TO106	DB
22▼#	MEF5485	310m	4.0†	15		25Δ			10m	1.0n	0.0	15	3.5m	7.0m			4.0p	2.8m	150S	Ø	TO106	DB
23▼#	MEF5486	310m	6.0†	15		25Δ			20m	1.0n	0.0	15	4.0m	8.0m			4.0p	2.8m	150S	Ø	TO106	DB
24	MPF108	310m	8.0†	15Δ	25	25			24m	1.0n	0.0	15	2.0m%	7.5m%	75u%		6.5p	2.8m	135J	#Ø	TO92	DD
25	MPF109	310m	8.0†	15Δ	25	25			24m	1.0n	0.0	15	800u%	6.0m%	75u%		7.0p	2.8m	135J	#Ø	TO92	DD
26	NF5457	310m	6.0†	15	25Δ	25Δ	50m	10m	5.0mΔ%	1.0n	0.0	15	1.0m	5.0m†	50u*		7.0p#	2.8m	150S	Ø#	TO18	DBØ
27	NF5458	310m	7.0†	15	25Δ	25Δ	50m	10m	9.0mΔ%	1.0n	0.0	15	1.5m	5.5m†	50u*		7.0p#	2.8m	150S	Ø#	TO18	DBØ
28	NF5459	310m	8.0†	15	25	25Δ	50m	10m	9.0mΔ%	1.0n	0.0	15	2.0m	6.0m†	50u*		7.0p#	2.8m	150S	Ø#	TO18	DBØ
29	NF5485	310m	4.0†	15Δ	25	25	30m	10m	10mΔ	1.0n	0.0	15	3.5m	7.0m	60u%		5.0p#	2.8m	150S	Ø#	TO72	DH
30	NF5486	310m	6.0†	15Δ	25	25	30m	10m	20mΔ	1.0n	0.0	15	4.0m	8.0m	75u%		5.0p#	2.8m	150S	Ø#	TO72	DH
31	NF5638	310m	12†	15Δ	30	30	200m	10m	50mΔ#	1.0n						30 %	10p#	2.8m	150S	#⍁	TO18	DBØ
32	NF5639	310m	8.0†	15Δ	30	30	200m	10m	25mΔ#	1.0n						60 %	10p#	2.8m	150S	#⍁	TO18	DBØ
33	NF5640	310m	6.0†	15Δ	30	30	200m	10m	5.0mΔ#	1.0n						100 %	10p#	2.8m	150S	#⍁	TO18	DBØ
34	NF5653	310m	12†	15Δ	30	30	200m	10m	40mΔ#	1.0n						50 %	10p#	2.8m	150S	#⍁	TO18	DBØ
35	NF5654	310m	8.0†	15Δ	30	30	200m	10m	15mΔ#	1.0n						100 %	10p#	2.8m	150S	#⍁	TO18	DBØ
36	2N5564▼	325m	3.0†	15Δ	40	40	30		30m%	100p	2.0Ø	15	7.5m	12m	45u	100	12p#	2.2m	200S	Ø	L61a	
37	2N5565▼	325m	3.0†	15Δ	40	40	30		30m%	100p	2.0Ø	15	7.5m	12m	45u	100	12p#	2.2m	200S	Ø	L61a	
38	2N5566▼	325m	3.0†	15Δ	40	40	30		30m%	100p	2.0Ø	15	7.5m	12m	45u	100	12p#	2.2m	200S	Ø	L61a	
39	2N3821	330m	4.0†	15Δ	50	50		10m	2.5m	100p	0.0	15	1.5m%	4.5m†	10u*		6.0p#	2.0m	200S	Ø	TO72	DH
40	2N3822	330m	6.0†	15Δ	50	50		10m	10m	100p	0.0	15	1.5m%	6.5m†	20u*		6.0p#	2.0m	200S	Ø	TO72	DH
41	3N128	330m	8.0†	15Δ	20	20Δ	50m	50m	25m	50p	5.0Ø	15	5.0m	12m			7.0p#	2.2m	175S	Ø	TO72	DW
42	3N142	330m	8.0†	20Δ	20	20Δ	50m		25m	1.0n	5.0Ø	15	5.0m%				10p#	2.2m	175S	Ø	TO72	DW
43	3N143	330m	8.0†	15Δ	20	20Δ	50m		30m	1.0n	5.0Ø	15	5.0m%				7.0p#	2.2m	175S		TO72	DW
44	3N152	330m	8.0†	15Δ	20	8.0	50m		30m	1.0n	5.0Ø	15	5.0m	12m%				2.2m	175S	Ø	TO72	DW
45	3N154	330m	8.0†	15Δ	20	8.0	50m		25m	50p	5.0Ø	15	5.0m	12m%				2.2m	175S	Ø	TO72	DW
46	3N187	330m	4.0†	15Δ	20	20Δ	50m	1.0m		50n	7.2	15	7.0m	18m				2.2m	175S	$*	TO72	DX
47	3N200	330m	3.0†	15Δ	20	6.0	50m	1.0m		50n			10m	20m				2.2m	175S		L77	
48#	3SK45	330m			20	7.0	35m			20n		10	14m%				4.0p		A	*		
49	40673	330m	4.0†	15Δ	20	1.0	50m		35m	20n	4.0	15	12mΔ				6.0p#*	2.2m	175A	Ø*	TO72	DX⍁
50	40819	330m	4.0†	15Δ	25		50m	100u	35m	50n	4.0	15	12m%	Δ			6.0p#*	2.2m	175A	Ø*	TO72	DX
51	40820	330m	3.0†	15Δ	20	9.0	50m	100u	15m	50n	4.0	15	12mΔ				8.5p#	2.2m	175A	Ø*	TO72	DX
52	40821	330m	3.0†	15Δ	20	11	50m	100u	20m	50n	4.0	15	12mΔ				9.0 #	2.2m	175A	*	TO72	DX
53	40822	330m	4.0†	15Δ	18	9.0	50m	100u	30m	50n	4.0	15	12mΔ				9.5 #	2.2m	175A	Ø*	TO72	DX
54	40823	330m	4.0†	15Δ	18	11	50m	100u	35m	50n	4.0	15	12mΔ				10p#	2.2m	175A	*	TO72	DX
55▼#	MEF3821	330m	4.0†	15Δ		50Δ			2.5m	100p	0.0	15	1.5m	4.5m			6.0p	2.0m	200S		TO106	DB
56▼#	MEF3822	330m	6.0†	15Δ		50Δ			10m	100p	0.0	15	3.0m	6.5m			6.0p	2.0m	200S		TO106	DB
57	SK3050-RT	330m					50m		15m		4.0	15	12mΔ					2.2m	175	*	TO72	DX⍁
58	SK3065-RT	330m					50m		15m		4.0	15	13mΔ					2.2m	175	*	TO72	DX⍁
59	2N3069	350m	9.5	30		50Δ		100m	10m	1.0n	0.0	30	1.0m	2.5m	80u†		15p%	2.0m	200C		TO18	DBØ
60	2N3070	350m	4.5	30		50Δ		100m	2.5m	1.0n	0.0	30	750u	2.5m	30u†		15p%	2.0m	200C		TO18	DBØ
61	2N3071	350m	2.2	30		50Δ		100m	600u	1.0n	0.0	30	500u	2.5m	7.0u†		15p%	2.0m	200C		TO18	DBØ
62	2N3684	350m	4.5	20		50	7.5m	50m	7.5m	.10n	0.0	20	2.0m	3.0m	50u%		4.0p#	2.0m	200S	Ø	TO72	DH
63	2N3684A	350m	5.0†	20		50	7.5m	50m	7.5m	100p	0.0	20	2.0m	3.0m	5.0u		4.0p#	2.0m	200S	#*	TO72	DH
64▼	3N210	350m	4.0†	15Δ	25	30Δ	30m	10m	30m	20n	4.0	15	10m%	20m%			7.0p	2.8m	150C	*$	u102	EE
65#	3SK49	350m			20Δ	8.0Δ	30m		30m	20n	5.0Ø	10	15mΔ				5.5p	2.8m	150J	S*	TO72	DX
66#	BSV78†	350m	11	15	40	40		50m	50mΔ	250p						25 %	14p	2.0m	200J	#	TO18	DBØ
67#	BSV79†	350m	7.0	15	40	40		50m	20mΔ	250p						40 %	14p	2.0m	200J	#	TO18	DBØ
68#	BSV80†	350m	5.0	15	40	40		50m	10mΔ	250p						60 %	14p	2.0m	200J	#	TO18	DBØ
69#	C94	350m	5.0	10	25Δ	25Δ		50m	5.0m	10n		10	500u	2.0m		100k	3.0p†*	2.0m	150A	Ø⍁	TO18	DD
70#	C94A	350m	5.0	10	25Δ	25Δ		50m	5.0m	500u		10	500u	2.0m		100k	3.0p†*	2.0m	150A	Ø⍁	TO18	DD
71#	C95	350m	15	10	25Δ	25Δ		50m	7.0m	10n		10	300u	1.5m		200k	3.0p†*	2.0m	150A	Ø⍁	TO18	DD
72#	C95A	350m	15	10	25Δ	25Δ		50m	7.0m	1.0n		10	500u	1.5m		200k	3.0p†*	2.0m	150A	Ø⍁	TO18	DD
73	E105†	350m	10	5.0		30		50m	500m#%	3.0n						3.0 %	160p#	3.5m	125A	#⍁	U121	DB
74	E106†	350m	6.0	5.0		30		50m	200m#%	3.0n						6.0 %	160p#	3.5m	125A	#⍁	U121	DB
75	E107†	350m	4.5	5.0		30		50m	100m#%	3.0n						8.0 %	160p#	3.5m	125A	#⍁	u121	DB
76	E108†	350m	10	5.0		25		50m	80m#%	3.0n						8.0 %	85p#	3.5m	125A	#⍁	U121	DB
77	E109†	350m	6.0	5.0		25		50m	40m#%	3.0n						12 %	85p#	3.5m	125A	#⍁	u121	DB
78	E110†	350m	4.0	5.0		25		50m	10m#%	3.0n						15 %	85p#	3.5m	125A	#⍁	U121	DB
79	E111†	350m	10	5.0		35		50m	20m#%	1.0n						30 %	28p#	3.5m	125A	#⍁	U121	DB
80	E112†	350m	5.0	5.0		35		50m	5.0m#%	1.0n						50 %	28p#	3.5m	125A	#⍁	U121	DB
81	E113†	350m	3.0	5.0		35		50m	2.0m#%	1.0n						100 %	28p#	3.5m	125A	#⍁	U121	DB
82	E114†	350m	10	5.0		25		50m	15mΔ%	1.0n						150 %	8.0p#	3.5m	125A	#⍁	U121	DB
83	E201	350m	1.5	20		40		50m	1.0m%	100p	0.0	20	500u†				5.0p#	3.5m	125A	#†	U121	DB
84	E202	350m	4.0	20		40		50m	4.5m%	100p	0.0	20	1.0m†				5.0p#	3.5m	125A	#†	U121	DB
85	E203	350m	10	20		40		50m	20m%	100p	0.0	20	1.5m†				5.0p#	3.5m	125A	#†	U121	DB
86	E210	350m	3.0	15		25		10m	15m%	100p	0.0	15	4.0m†	12m†			5.0p#	3.5m	125A	#†	U121	DB
87	E211	350m	4.5	15		25		10m	20m%	100p	0.0	15	7.0m	12m			5.0p#	3.5m	125A	#†	U121	DB
88	E212	350m	6.0	15		25		10m	40m%	100p	0.0	15	7.0m	12m			5.0p#	3.5m	125A	#†	U121	DB
89	E230	350m	3.0	20		40		50m	3.0m	250p	0.0	20	1.0m	2.5m			15p#	3.5m	125A	#†	U121	DB
90	E231	350m	5.0	20		40		50m	6.0m	250p	0.0	20	1.5m	3.0m			15p#	3.5m	125A	#†	U121	DB
91	E232	350m	6.0	20		40		50m	10m	250p	0.0	20	2.5m	4.0m			15p#	3.5m	125A	#†	U121	DB
92	E300	350m	6.0	10		25		10m	30m%	500p	5.0Ø		45m†	9.0m†	200u		5.5p#	3.5m	125A	#Ø	u121	DB
93	E304	350m	6.0	15		30		10m	15m%	100p	0.0	15	4.5m†	7.0m†	50u		3.0p*#	3.5m	125A	#†	U121	DB
94	E305	350m	3.0	15		30		10m	8.0m%	100p	0.0	15	3.0m†		50u		3.0p*#	3.5m	125A	#†	U121	DB
95	E310	350m	6.5	10		25		20n	60m%	100p	10Ø	10	8.0m	18m			5.0p†	3.5m	125	#	TO100	DB
96	E311	350m	4.0	10		25		20n	30m%	100p	10Ø	10	10m	20m			5.0p†	3.5m	125	#	TO106	DB
97	E312	350m	6.5	10		25		20n	60m%	100p	10Ø	10	8.0m	18m			5.0p†	3.5m	125	#	TO106	DB
98	E400▼	350m	4.5	20		40		50m	5.0m%	200p	0.0	20	1.0m	3.0m			4.5p*#	3.5m	125A	#†	L83	
99	E401▼	350m	4.5	20		40		50m	5.0m%	200p	0.0	20	1.0m	3.0m			4.5p*#	3.5m	125A	#†	L83	
100	E402▼	350m	4.5	20		40		50m	5.0m%	200p	0.0	20	1.0m	3.0m			4.5p*#	3.5m	125A	#†	L83	
101	E413▼	350m	4.5	20		40		50m	6.0m%	250p	0.0	20	1.0m	3.0m			4.0p*#	3.5m	125A	#†	L83	
102	E414▼	350m	4.5	20		40		50m	6.0m%	250p	0.0	20	1.0m	3.0m			4.0p*#	3.5m	125A	#†	L83	
103	E415▼	350m	4.5	20		40		50m	6.0m%	250p	0.0	20	1.0m	3.0m			4.0p*#	3.5m	125A	#†	L83	
104	E420	350m	6.0	10		25		50m	30m%	500p	5.0Ø		4.5m	9.0m			3.5p*#	3.5m	125A	#§	L83	
105	E421	350m	6.0	10		25		50m	30m%	500p	5.0Ø		4.5m	9.0m			3.5p*#	3.5m	125A	#§	L83	
106	E430	350m	4.0	10		25		20n	30m%	100p	10Ø	10	10m	20m			5.0p†	3.5m	125	#§	TO105	DB
107	E431	350m	6.0	10		25		20n	60m%	100p	10Ø	10	10m	20m			5.0p†	3.5m	125	#§	TO105	DB
108▼#	MEF3069	350m	9.5			50Δ			10m	1.0n	0.0	30	1.0m	2.5m			15p	2.0m	200C	Ø	TO106	DB
109▼#	MEF3070	350m	4.5	30		50Δ			2.5m	1.0n	0.0	30	750u	2.5m			15p	2.0m	200C	Ø	TO106	DB

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1▼#	MEF3071	350m	2.2	30		50Δ			600u	1.0n	0.0	30	500u	2.5m			15p	2.0m	200C	Ø	TO106 DB
2▼#	MEF3684	350m	4.5	20		50Δ			7.5m	100p	0.0	20	2.0m	3.0m			4.0p	2.0m	200S		TO106 DB
3	MPF130	350m	4.0†	15$	25		30m		30m	20n	4.0	15	8.0m%	20m%			4.5p#	2.3m	175J	*Ø	u102 EE
4	MPF131	350m	4.0†	15$	25		30m		30m	20n	4.0	15	8.0m%	20m%			4.5p#	2.3m	175J	*Ø	u102 EE
5	MPF132	350m	4.0†	15$	25		30m		30m	20n	4.0	15	8.0m%	20m%			4.5p#	2.3m	175J	*Ø	u102 EE
6	MPF256	350m	7.5†	15Δ	30	25			18m	5.0n	0.0	15	6.0m%				3.0p#*	2.7m	150J	#Ø	TO92 DD
7	UC200	350m	6.0	20		50			30mΔ	.10n			6.0m			.15k	7.0p		200	E	TO72 DH
8	UC201	350m	8.0	20		50			15m	100p						130 †	7.0p#			PE	TO72
9	UC210	350m	4.0	20		50			12mΔ	.10n			4.5m			.25k	7.0p		200	E	TO72 DH
10	UC220	350m	2.5	20		50			5.0mΔ	.10n	0.0	20	3.0m			.35k	7.0p		200J	EØ	TO72 DH
11	2N3819	360m	8.0†	15Δ	25	25		10m	20m%	2.0n	0.0	15	2.0m	6.5m	50u*		8.0p#	2.9m	150S	†	TO92 DA
12	JAN2N4091†	360m	10†	20	40	40		10m	30 #%	100p						30 %	16 #	2.4m	175A	#☑	TO18 DBØ
13	JAN2N4092†	360m	7.0†	20	40	40		10m	15 #%	100p						50 %	16 #	2.4m	175A	#☑	TO18 DBØ
14	JAN2N4093†	360m	5.0†	20	40	40		10m	8.0 #%	100p						80 %	16 #	2.4m	175A	#☑	TO18 DBØ
15	2N4856†	360m	10†	15Δ	40	40		50m	50m#%	250p						25 %	18p#	2.0m	200S	Δ	TO18 DBØ
16	JAN2N4856	360m	10	15	40	40		50m	50m#%	250p						30 †	18p#	2.4m	200S	☑	TO18 DBØ
17	2N4856A†	360m	10†	15Δ	40	40		50m	50m#%	250p						25 %	10 #	2.0m	200S	☑	TO18 DBØ
18	2N4857†	360m	6.0†	15Δ	40	40		50m	50m#%	250p						40 %	18p#	2.0m	200S	Δ	TO18 DBØ
19	JAN2N4857	360m	6.0	15	40	40		50m	100m%	250p						40 †	18 #	2.4m	200S	☑	TO18 DBØ
20	2N4857A†	360m	6.0†	15Δ	40	40		50m	100m	250p						40 %	10 #	2.0m	200S	☑	TO18 DBØ
21	2N4858†	360m	4.0†	15Δ	40	40		50m	50m#%	250p						60 %	18p#	2.0m	200S	Δ	TO18 DBØ
22	JAN2N4858	360m	4.0	15	40	40		50m	80m%	250p						60 †	18 #	2.4m	200S	☑	TO18 DBØ
23	2N4858A†	360m	4.0†	15Δ	40	40		50m	80m%	250p						60 %	10 #	2.0m	200S	☑	TO18 DBØ
24	2N4859†	360m	10†	15Δ	30	30		50m	50m#%	250p						25 %	18p#	2.0m	200S	Δ	TO18 DBØ
25	JAN2N4859	360m	10	15	30	30		50m	50m%#	250p						30 †	18 #	2.4m	200S	☑	TO18 DBØ
26	2N4859A†	360m	10†	15Δ	30	30		50m	50m%	250p						25 %	10 #	2.0m	200S	☑	TO18 DBØ
27	2N4860†	360m	6.0†	15Δ	30	30		50m	50m#%	250p						40 %	18p#	2.0m	200S	Δ	TO18 DBØ
28	JAN2N4860	360m	6.0	15	30	30		50m	100m%	250p						40 †	18 #	2.4m	200S	☑	TO18 DBØ
29	2N4860A†	360m	6.0†	15Δ	30	30		50m	100m	250p						40 %	10 #	2.0m	200S	☑	TO18 DBØ
30	2N4861†	360m	4.0†	15Δ	30	30		50m	50m#%	250p						60 %	18p#	2.0m	200S	Δ	TO18 DBØ
31	JAN2N4861	360m	4.0	15	30	30		50m	80m%	250p						60 †	18 #	2.4m	200S	☑	TO18 DBØ
32	2N4861A†	360m	4.0†	15Δ	30	30		50m	80m%	250p						60 %	10 #	2.0m	200S	☑	TO18 DBØ
33	2N5245	360m	6.0†	15		30		50m	15mΔ%	1.0n	0.0	15	4.5m	7.5m	50u		4.5p#	2.9m	150S	#Ø	X55 DD
34	2N5246	360m	4.0†	15		30		50m	7mΔ%	1.0n	0.0	15	3.0m	6.0m	50u		4.5p#	2.9m	150S	#Ø	X55* DD
35	2N5247	360m	8.0†	15		30		50m	24mΔ%	1.0n	0.0	15	4.5m	8.0m	70u		4.5p#	2.9m	150S	#Ø	X55 DD
36	2N5248	360m	8.0†	15		30		10m	20m%	5.0n	0.0	15	3.5m	6.5m	50u		6.0p#	2.9m	150S	#	TO92 DA
37	2N5549	360m				40				250p			6.0m	15m		100 %	8.0p#☑	2.4m	200S	#	TO18 DH
38	2N5949	360m	7.0†	15		30			18m%	1.0n	0.0	15	3.5m	7.5m	75u%	200 %	6.0p#	2.8m	150S	Ø#	X55 DB
39	2N5950	360m	0.0†	15		30			15m%	1.0n	0.0	15	3.5m	7.5m	75u%	210 %	6.0p#	2.8m	150S	Ø#	X55 DB
40	2N5951	360m	5.0†	15		30			13m%	1.0n	0.0	15	3.5m	6.5m	75u%	250 %	6.0p#	2.8m	150S	Ø#	X55 DB
41	2N5952	360m	3.5†	15		30			8.0m%	1.0n	0.0	15	2.0m	6.5m	50u%	300 %	6.0p#	2.8m	150S	Ø#	X55 DB
42	2N5953	360m	.0†	15		30			5.0m%	1.0n	0.0	15	2.0m	6.5m	50u%	375 %	6.0p#	2.8m	150S	Ø#	X55 DB
43	2N6451	360m	3.5†	10Δ		20		10m	20m%	100u	5.0Ø	10	15m%	30m%	50u		25p#	2.4m	200S	#Ø	TO72 DH
44	2N6452	360m	3.5†	10Δ		25		10m	20m%	100u	5.0Ø	10	15m%	30m%	50u		25p#	2.4m	200S	#Ø	TO72 DH
45	2N6453	360m	5.0†	10Δ		20		10m	50m%	100u	15Ø	10	20m%	40m%	100u		25p#	2.4m	200S	#Ø	TO72 DH
46	2N6454	360m	5.0†	10Δ		25		10m	50m%	100u	15Ø	10	20m%	40m%	100u		25p#	2.4m	200S	#Ø	TO72 DH
47	3N201	360m	5.0†	15Δ	25	30Δ	50m	10m		10n	4.0	15	8.0m	20m				2.4m	200S	Ø*	TO72 DX
48	3N202	360m	5.0†	15Δ	25	30Δ	50m	10m		10n	4.0	15	8.0m	20m				2.4m	200S	Ø*	TO72 DX
49	3N203	360m	5.0†	15Δ	25	30Δ	50m	10m		10n	4.0	15	7.0m	15m				2.4m	200S	Ø*	TO72 DX
50▼	3N203A	360m	5.0†	15	25	30Δ	50m	10m	15m	10n	4.0	15	7.0m%	15m%				2.4m	200S	*$	TO72 DX
51	3N204	360m	4.0†	15Δ	25	30Δ	50m	10m	30mΔ%	10n	4.0	15	10m%	22m%				2.4m	200S	*§	TO72 DX
52	3N205	360m	4.0†	15Δ	25	30Δ	50m	10m	30mΔ%	10n	4.0	15	10m%	22m%				2.4m	200S	*§	TO72 DX
53	3N206	360m	4.0†	15Δ	25	30Δ	50m	10m	15mΔ%	10n	4.0	15	7.0m%	17m%				2.4m	200S	*§	TO72 DX
54	3N211	360m	5.5†	15Δ	27	35Δ	50m	10m		10n	4.0	15	17m%	40m%				2.4m	200S	Ø*	TO72 DX
55	3N212	360m	4.0†	15Δ	27	35Δ	50m	10m		10n	4.0	15	17m%	40m%				2.4m	200S	*	TO72 DX
56	3N213	360m	5.5†	15Δ	35	40Δ	50m	10m		10n	4.0	15	15m%	35m%				2.4m	200S	Ø*	TO72 DX
57	3N214	360m	6.0†	12$	20	20Δ	50m	1.0m	50mØ#	10n	6.0					20	6.0p	2.4m	200S	*☑	TO72 DW
58	3N215	360m	6.0†	12$	20	20Δ	50m	1.0m	50mØ#	10n	6.0					35	6.0p	2.4m	200S	*☑	TO72 DW
59	3N216	360m	6.0†	12$	20	20Δ	50m	1.0m	50mØ#	10n	6.0					50	6.0p	2.4m	200S	*☑	TO72 DW
60	3N217	360m	6.0†	12$	20	20Δ	50m	1.0m	50mØ#	10n	6.0					70	6.0p	2.4m	200S	*☑	TO72 DW
61▼	3N225	360m	4.0†	15Δ	20	25Δ	50m	10m	20m%	10n	4.0	15	6.0m%	15m%				2.4m	200S	*$	TO72 DX
62▼	3N225A	360m	3.0†	15Δ	20	25Δ	50m	10m	15m%	10n	4.0	15	7.5m%	15m%				2.4m	200S	*$	TO72 DX
63#	BF244	360m	8.0†	15	30	30		10m	25m	5.0n	0.0	15	3.0m%	6.5m%			4.0p*	2.9m	150S	PE	X55
64#	BF245	360m	8.0†	15	30	30		10m	25m	5.0n	0.0	15	3.0m%	6.5m%			4.0p*	2.9m	150S	PE	TO92
65#	BF246	360m	8.0†	15	25			10m	300m	5.0n	0.0	15	8.0m%	23mΔ			12p*	2.9m	150S	PE	X55
66#	BF247	360m	8.0†	15	25			10m	300m	5.0n	0.0	15	8.0m%	23mΔ			12p*	2.9m	150S	PE	TO92
67#	BF256L	360m	7.5†	15Δ	30	30		50m	18m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	X20 DA
68#	BF256LA	360m	7.5†	15Δ	30	30		50m	7.0m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	X20 DA
69#	BF256LB	360m	7.5†	15Δ	30	30		50m	13m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	X20 DA
70#	BF256LC	360m	7.5†	15Δ	30	30		50m	18m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	X20 DA
71#	BF346	360m	5.5	11	20	20		10m	80m	5.0n		10	16m					2.8m	150	PE	X55 DW
72#	BF348	360m	6.0†	15Δ		40		25m	60m	5.0n	0.0	15	6.0m	15m		100 %	4.0p#	2.8m	150S	PEØ	X20 DA
73#	BF350	360m	5.0†	15	15		50m	10m		100n	4.0	15		10 Δ				2.4m	175	*	TO72 DX
74#	BF351	360m	5.0†	15	24		50m	10m		20n	4.0	15	8.0m					2.4m	175	Ø*	TO72 DX
75#	BF352	360m	2.0†	15	24		50m	10m		20n	4.0	15	8.0m					2.4m	175	Ø*	TO72 DX
76#	BF353	360m	3.0†	15	24		50m	10m		20n	4.0	15		12 Δ				2.4m	175	Ø*	TO72 DX
77	FE3819	360m	8.0†	15	25	25		10m	20m	2.0n	0.0	15	2.0m	6.5m†	50u%		8.0p#	2.8m	150J	DPL	TO106 DB
78	FE5245	360m	6.0†	15		30		50m	15m%	1.0n	0.0	15	4.5m	7.5m	50u%		4.5p#	2.8m	150J	DPLØ	TO106 DD
79	FE5246	360m	4.0†	15		30		50m	7.0m%	1.0n	0.0	15	3.0m	6.0m	50u%		4.5p#	2.8m	150J	DPLØ	TO106 DD
80	FE5247	360m	8.0†	15		30		50m	24m%	1.0n	0.0	15	4.5m	8.0m	70u%		4.5p#	2.8m	150J	DPLØ	TO106 DD
81	KE3684	360m	5.0	20		50		50m	7.5m	1.0n		20	2.0m	3.0m	50u	600	4.0p				TO106 DB
82	KE3685	360m	3.5	20		50		50m	3.0m	1.0n		20	1.5m	2.5m	25u	800	4.0p				TO106 DB
83	KE3686	360m	2.0	20		50		50m	1.2m	1.0n		20	1.0m	2.0m	10u	1.2k	4.0p				TO106 DB
84	KE3687	360m	1.2	20		50		50m	500u	1.0n		20	500u	1.5m	5.0u	2.4k	4.0p				TO106 DB
85	KE4091	360m	10	20		40		50m		1.0n						30	16p				TO106 DB
86	KE4092	360m	7.0	20		40		50m		1.0n						50	16p				TO106 DB
87	KE4093	360m	5.0	20		40		50m		1.0n						80	16p				TO106 DB
88	KE4220	360m	4.0	15		30		50m	3.0m	1.0n		15	1.0m	4.0m	10u		6.0p				TO106 DB
89	KE4221	360m	6.0	15		30		50m	6.0m	1.0n		15	2.0m	5.0m	20u		6.0p				TO106 DB
90	KE4222	360m	6.0	15		30		50m	15m	1.0n		15	2.5m	6.0m	40u		6.0p				TO106 DB
91	KE4223	360m	8.0	15		30		50m	18m	1.0n		15	3.0m	7.0m	200u		6.0p				TO106 DB
92	KE4224	360m	8.0	15		30		50m	20m	500p		15	2.0m	7.5m	200u		6.0p				TO106 DB
93	KE4391	360m	10	20		40		50m	150m	1.0n						30	14p				TO106 DB
94	KE4392	360m	5.0	20		40		50m	75m	1.0n						60	14p				TO106 DB
95	KE4393	360m	3.0	20		40		50m	30m	1.0n						100	14p				TO106 DB
96	KE4416	360m	6.0	15		30		50m	15m	1.0n		15	4.5m	7.5m	50u		4.0p				TO106 DB
97	KE4856	360m	10	15		40		50m		1.0n						25	18p				TO106 DB
98	KE4857	360m	6.0	15		40		50m	100m	1.0n						40	18p				TO106 DB
99	KE4858	360m	4.0	15		40		50m	80m	1.0n						60	18p				TO106 DB
100	KE4859	360m	10	15		30		50m		1.0n						25	18p				TO106 DB
101	KE4860	360m	6.0	15		30		50m	100m	1.0n						40	18p				TO106 DB
102	KE4861	360m	4.0	15		30		50m	80m	1.0n						60	18p				TO106 DB
103▼#	MEF68	360m	5.0†	15		25Δ			15m	2.0n	0.0	15	1.0m	6.0m			8.0p	350u	150S		R148
104▼#	MEF69	360m	5.0†	15		25Δ			15m	2.0n	0.0	15	1.0m	6.0m			8.0p	350u	150S		R148
105▼#	MEF70	360m	5.0†	15		25Δ			15m	2.0n	0.0	15	1.0m	6.0m			8.0p	350u	150S		R148
106▼#	MEF3819	360m	8.0†	15Δ		25Δ			20m	2.0n	0.0	15	2.0m	6.5m			8.0p	2.9m	150S		TO106 DB
107▼#	MEF4391†	360m	10	20Δ		40Δ			150m	100p						30 †	14p		200S		TO106 DB
108▼#	MEF4392†	360m	5.0	20Δ		40Δ			75m	100p						60 †	14p		200S		TO106 DB
109▼#	MEF4393†	360m	3.0	20Δ		40Δ			30m	100p						100 †	14p		200S		TO106 DB
110▼#	MEF4856†	360m	10†	15Δ		40Δ			50m#	250p						25 †	18p	2.4m	200S		TO106 DB

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L C Y200 E O s/a A D T0200 D E Ser.
1▼#	MEF4857†	360m	6.0†	15△		40△			100m	250p						40 †	18p	2.4m	200S		TO106 DB
2▼#	MEF4858†	360m	4.0†	15△		40△			80m	250p						60 †	18p	2.4m	200S		TO106 DB
3▼#	MEF4859†	360m	10†	15△		30△			50m#	250p						25 †	18p	2.4m	200S		TO106 DB
4▼#	MEF4860†	360m	6.0†	15△		30△			100m	250p	0.0	20	1.0m	3.0m		40 †	18p	2.9m	200S		TO106 DB
5▼#	MEF4861†	360m	4.0†	15△		30△			80m	250p	0.0	20	1.0m	3.0m		60 †	18p	2.9m	200S		TO106 DB
6▼#	MEF5245	360m	6.0†	15		30△			15m	1.0n	0.0	15	4.5m	7.5m			4.5p	2.9m	150S	Ø	TO106 DB
7▼#	MEF5246	360m	4.0†	15		30△			7.0m	1.0n	0.0	15	3.0m	6.0m			4.5p	2.9m	150S	Ø	TO106 DB
8▼#	MEF5247	360m	8.0†	15		30△			24m	1.0n	0.0	15	4.5m	8.0m			4.5p	2.8m	150S	Ø	TO106 DB
9▼#	MEF5248	360m	8.0†	15		30△			20m	5.0n	0.0	15	3.5m	6.5m			6.0p	2.8m	150S	Ø	TO106 DB
10	MEM616	360m	4.0†	15△	25	6.0	50m		30m	50n	4.0	15	12m%	18m△			6.0p#	2.4m	175S	Ø	TO72 DX
11	MEM617	360m	4.0†	15△	25	6.0	50m		15m	50n	4.0	15	4.4m△	%			6.0p#*	2.4m	175S	§	TO72 DX
12	MEM618	360m	4.0†	15△	25	6.0	50m		20m	50n	4.0	15	10m%	14m△			5.1p#*	2.4m	175S	§	TO72 DX
13	MEM640	360m	4.0	15	25	6.0	10u	100u	18m	50n	0.0	15	10	20	500u†		8.0p#	2.4m	175J	*	TO72 DX
14	MEM641	360m	4.0	15	25	6.0	10u	100u	18m	50n	0.0	15	10	20	60u†		6.0p#	2.4m	175J	*	TO72 DX
15	MEM642	360m	4.0	15	25	6.0	10u	100u	18m	50n	0.0	15	10	20	50u†		6.0p#	2.4m	175J	*	TO72 DX
16	MPF110	360m	10	10		20		50m	20m	100p		10	500u	7.5m							TO92 DD
17	NF5555	360m	10†	10△	25	25	40m	10m	15m	1.0n						150 %	5.0p#	2.0m	200S	PE#△	TO72 DH
18#	PN3819	360m	8.0	15	25△	25△		10m	10m△	2.0n	0.0	15	2.0	65			4.0p△	2.7m	150	#	TO106 DB
19#	SI211NA	360m	.40	5.0△		25△			150u	200p	0.0	5.0	200u	800u			8.0p*	2.0	150J	PL	TO18 DBØ
20#	SI212NA	360m	.80	5.0△		25△			300u	200p	0.0	5.0	300u	1.2m			8.0p*	2.0	150J	PL	TO18 DBØ
21#	SI213NA	360m	1.2	5.0△		25△			600u	200p	0.0	5.0	500u	1.5m			8.0p*	2.0	150J	PL	TO18 DBØ
22#	SI214NA	360m	2.0	5.0△		25△			1.5m	200p	0.0	5.0	800u	2.4m			8.0p*	2.0	150J	PL	TO18 DBØ
23#	SI215NA	360m	2.8	5.0△		25△			3.0m	200p	0.0	5.0	1.2m	3.6m			8.0p*	2.0	150J	PL	TO18 DBØ
24#	SI216NA	360m	4.0	5.0△		25△			6.0m	200p	0.0	5.0	1.5m	4.5m			8.0p*	2.0	150J	PL	TO18 DBØ
25	TIS34	360m	8.0	15	30	30		10m	20m△	5.0n	0.0	15	3.5m	6.5m	50u		6.0p	2.9m	150J	PE	TO92
26	TIS41	360m			30	30		50m	50m%△	20						25 †	18p#	2.4m	200S	PE	TO18
27	TIS42	360m			25	25		10m	10m%	5.0						70 †		2.9m	150J	PE	TO92
28	TIS58	360m	5.0†	15	25	25			8.0m	4.0m	0.0	15	1.3m	4.0m	20u%		6.0p#	2.8m	150S	PE†	TO92 DA
29	TIS59	360m	9.0†	15	25	25			25m	4.0m	0.0	15	2.3m	5.0m	50u%		6.0p#	2.8m	150S	PE†	TO92 DA
30	TIS68▼	360m	5.0†	15		25△		30m	8.0m	2.0n	0.0	15	1.0m	6.0m	35u%		8.0p#	.35m	150S	PE	TO92
31	TIS69▼	360m	5.0†	15		25△		30m	8.0m	2.0n	0.0	15	1.0m	6.0m	35u%		8.0p#	.35m	150S	PE	TO92
32	TIS70▼	360m	5.0†	15		25△		30m	8.0m	2.0n	0.0	15	1.0m	6.0m	35u%		8.0p#	350u	150S	PE	TO92
33	TIS73†	360m	10†	15	30△	30△		50m	50m%	2.0n						5.0 %	18p#	350u	150S	PE	X55 DB
34	TIS74†	360m	6.0†	15	30△	30△		50m	20m#	2.0n						.04k%	18p#	.35m	150S	PE	X55 DB
35	TIS75†	360m	4.0†	15	30△	30△		50m	8m#	2.0n						.06k%	18p#	.35m	150S	PE	X55 DB
36	TIS78	360m	10†	30		300△		10m	10m%	2.0n	0.0	30	750u	3.0m†	100u*	1.5k%	15p#	2.0m	150J	P	X55 DB
37	TIS79	360m	12†	30		200△		10m	10m%	2.0n	0.0	30	750u	3.0m†	100u*	2.0k%	18p#	2.0m	150J	P	X55 DB
38#	TIS88A	360m	6.0†	15△	30	30		50m	15m%	1.0n	0.0	15	4.5m	7.5m	50u%		4.5p#	2.8m	150S	PEØ	X20 DA
39	U254	360m	10†	15△	30	30	10m	50m	50m#	%250p						25 %	18p#	2.0m	200S	Ø	TO18 DBØ
40	U255	360m	6.0†	15△	30	30	10m	50m	50m#	%250p						40 %	18p#	2.0m	200S	△	TO18 DBØ
41	U256	360m	4.0†	15△	30	30	10m	50m	50m#	%250p						60 %	18p#	2.0m	200S	△	TO18 DBØ
42	UC588	360m	6.0†	15		30		10m	15m△	1.0n	0.0	15	4.5m	7.5m	50u		4.0p	2.8m	200	†Ø	TO106 DD
43	2N5902▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
44	2N5903▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
45	2N5904▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
46	2N5905▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
47	2N5906▼	367m	4.5%	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
48	2N5907▼	367m	4.5†	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
49	2N5908▼	367m	4.5†	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
50	2N5909▼	367m	4.5†	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	L54b
51	2N5911▼	367m	5.0†	10△	25	25		100p	40m	100p			5.0m	10m	100u		5.0p#	3.0m	150S	Ø	L54b
52	2N5912▼	367m	5.0†	10△	25	25		100p	40m	100p			5.0m	10m	100u		5.0p#	3.0m	150S	Ø	L54b
53	40468A	375m		△	20	1.0	25m		25m%△	1.0n		15		7.5m△			10p#	2.5m	175J	*Ø	TO72 DW
54	40559A	375m		△	20	1.0	25m		25m%△	1.0n							5.5p#*	2.5m	175J	*	TO72 DW
55	IMF6485▼	375m	4.0†	20△	50	50		10m	7.5m	200p	0.0	20	1.0m	4.0m			20p#	2.1m	200S	§#	L61
56	IT1750	375m	3.0△	$	25	125	100m		10n			10	3.0m			25 †	6.0p#	3.0m	150J		TO72 DR
57	NDF9406▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	L61
58	NDF9407▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	L61
59	NDF9408▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	L61
60	NDF9409▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	L61
61	NDF9410▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	L61
62	2N3084	400m	10†	15	30	15		50m	3.0m	.10n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		R82
63	2N3085	400m	10†	15	30	15		50m	3.0m	.10n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		TO18 DD
64	2N3086	400m	10†	15	40	15		50m	3.0m	1.0n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		R82
65	2N3087	400m	10†	15	40	15		50m	3.0m	1.0n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		TO18 DD
66	2N3088	400m	5.0†	15	15	10		50m	2.0m	1.0n	1.0	15	.30m	2.0m	50u%		14p	2.3m	200C		R82
67	2N3088A	400m	5.0†	15	15	10		50m	2.0m△	1.0n	1.0	15	.30m	2.0m	50u		14p#	2.3m	200C		R82
68	2N3089	400m	5.0†	15	15	10		50m	2.0m	1.0n	1.0	15	.30m	2.0m	50u%		14p	2.3m	200C		TO18 DD
69	2N3089A	400m	5.0†	15	15	10		50m	2.0m△	1.0n	1.0	15	.30m	2.0m	50u		14p#	2.3m	200C		TO18 DD
70	2N3465	400m	10†	15	40	40△		50m	5.0m	1.0n	0.0	15	.40m	1.2m	10u%		15pt	2.3m	200C		R82
71	2N3466	400m	10†	15	40	40△		50m	5.0m	1.0n	0.0	15	.40m	1.2m	10u%		15pt	2.3m	200C		TO18 DD
72	2N4445†	400m	10	5.0△	25	25	400m	100m	150m%	3.0n						5.0 †	70p#	2.3m	200S		TO46 DDØ
73	2N4446†	400m	10	5.0△	25	25	400m	100m	100m%	3.0n						.01kt	70p#	2.3m	200S		TO46 DDØ
74	2N4447†	400m	10	5.0△	20	20	400m	100m	150m%	3.0n						6.0 †	70p#	2.3m	200S		TO46 DDØ
75	2N4448†	400m	10	5.0△	20	20	400m	100m	100m%	3.0n						.01kt	70p#	2.3m	200S		TO46 DDØ
76	2N5158†	400m	8.0	5.0△	40	40	400m	100m	100m%	1.0n							50p#	2.3m	200S	☑	TO46 DJØ
77	2N5159†	400m	10	5.0△	40	40	400m	100m	100m%	1.0n							50p#	2.3m	200S	☑	TO46 DJØ
78	3N140	400m	4.0†	16△	20	4.0	50m		30m	1.0n	4.0	14	6.0m	18m			7.0p#	2.7m	175A	$Ø	TO72 DX
79	3N141	400m	4.0†	16△	20	4.0	50m		30m	1.0n	4.0	14	6.0m	18m			7.0p#	2.7m	175A	$	TO72 DX
80	3N153	400m		△	20	8.0	50m		5.0m	50p						300 %	8.0p#	2.6m	175S		TO72 DW
81	3N159	400m	4.0†	16△	20	8.0	50m		30m△	1.0n	0.0	14	7.0m	18m			7.0p#	2.6m	175C	*Ø	TO72 DX
82	40467A	400m	8.0†	12△	20	1.0	50m		50m%△	1.0n		15	4.0m	7.5m△		200 †		2.6m	175A	*Ø	TO72 DW
83	40600	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*Ø	TO72 DX
84	40601	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*	TO72 DX
85	40602	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*	TO72 DX
86	40603	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*Ø	TO72 DX
87	40604	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	2.8m△				5.5p#	2.7m	175A	*	TO72 DX
88#	C81	400m	18	50			10m						400u	200u	500n				150J		R111 A
89	C413N	400m	3.0	5.0△	15△	15△		50m	10m#	3.0n		5.0	25m	40m△	50u		80p*	2.3m	200J	E#	R135 DDØ
90	CM697†	400m	3.0	5.0	25	25	400m	100m		3.0n						.01k%		2.3m	200J	E#	R135 DDØ
91#	ESM4446	400m	10	5.0	25	25		100m	100m%	200p						8.0 †	50p	2.3m	200J		TO18 DDØ
92#	ESM4448	400m	10	5.0	25	25		100m	50m%	200p						12 †	50p	2.3m	200J		TO18 DDØ
93	HEPF2004-RT																				
		400m		20		1.0	50m		30m	1.0n			6.0k						175J		TO72 DX
94	NF511	400m	10†	10	20	20△		10m	50m%	100n	0.0	10	20m△			50 †	15p#*	4.0m	125J		TO18 DB
95	U240†	400m	10	5.0		25	400m	100m	150m%	3.0n						5.0	70p#	2.3m	200S	△☑	TO52 DBØ
96	U241†	400m	10	5.0		25	400m	100m	100m%	3.0n						10	70p#	2.3m	200S	△☑	TO52 DBØ
97	U242†	400m	10	5.0		20	400m	100m	150m%	3.0n						6.0	70p#	2.3m	200S	△☑	TO52 DBØ
98	U243†	400m	10	5.0		20	400m	100m	100m%	3.0n						12	70p#	2.3m	200S	△☑	TO52 DBØ
99	2N5543	500m	15†	30		75			10m%	1.0u	0.0	30	750u	3.0m†	100u*	2.0k%	10p#	3.3m	200S	#	TO39 DBØ
100	2N5544	500m				30			10m%	1.0u	0.0	30	750u	3.0m†	100u*	2.0k%	10p#	3.3m	200S	#	TO39 DBØ
101	FM1100A	500m	3.0	3.0		35△	50m	50m	1.2m	1.0p	.10Ø	35△	500u	3.0m	1.0u		5.0p	4.0m	150	#Ø	L74
102	FM1101A	500m	3.0	3.0		35△	50m	50m	1.2m	1.0p	.10Ø	35△	500u	3.0m	1.0u		5.0p	4.0m	150	#Ø	L74
103	FM1102A	500m	3.0	3.0		35△	50m	50m	1.2m	1.0p	.10Ø	35△	500u	3.0m	1.0u		5.0p	4.0m	150	#Ø	L74
104	FM1103A	500m	3.0	3.0		35△	50m	50m	1.2m	1.0p	.10Ø	35△	500u	3.0m	1.0u		5.0p	4.0m	150	#Ø	L74
105	FM1104A	500m	3.0	3.0		35△	50m	50m	1.2m	1.0p	.10Ø	35△	500u	3.0m	1.0u		5.0p	4.0m	150	#Ø	L74
106	FM1105A	500m	6.0	6.0		35△	50m	50m	10m	1.0p	.10Ø	35△	1.0m	6.0m	1.0u		5.0p	4.0m	150	#Ø	L74
107	FM1106A	500m	6.0	6.0		35△	50m	50m	10m	1.0p	.10Ø	35△	1.0m	6.0m	1.0u		5.0p	4.0m	150	#Ø	L74
108	FM1107A	500m	6.0	6.0		35△	50m	50m	10m	1.0p	.10Ø	35△	1.0m	6.0m	1.0u		5.0p	4.0m	150	#Ø	L74
109	FM1108A	500m	6.0	6.0		35△	50m	50m	10m	1.0p	.10Ø	35△	1.0m	6.0m	1.0u		5.0p	4.0m	150	#Ø	L74

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD DATA
1	FM1109A	500m	6.0	6.0		35Δ	50m	50m	10m	1.0p	.10Ø	35Δ	1.0m	6.0m	1.0u		5.0p	4.0m	150	#Ø	L74	
2	FM1110A	500m	10	10		35Δ	50m	50m	10m	10p	.10Ø	35Δ	500u	6.0m			5.0p	4.0m	150	#Ø	L74	
3	FM1111A	500m	10	10		35Δ	50m	50m	10m	10p	.10Ø	35Δ	500u	6.0m			5.0p	4.0m	150	#Ø	L74	
4	FM3954*	500m	4.5†	20	50	50Δ		100u	5.0m	100p	0.0	20	1.0m	4.0m	35u%		4.0p#	2.8m	200J	#	L74	
5	FM3954A*	500m	4.5†	20	50	50Δ		100u	5.0m	100p	0.0	20	1.0m	4.0m	35u%		4.0p#	2.8m	200J	#Ø	L74	
6	FM3955*	500m	4.5†	20	50	50Δ		100u	5.0m	100p	0.0	20	1.0m	4.0m	35u%		4.0p#	2.8m	200J	#Ø	L74	
7	FM3955A*	500m	4.5†	20	50	50Δ		100u	5.0m	100p	0.0	20	1.0m	4.0m	35u%		4.0p#	2.8m	200J	#Ø	L74	
8	FM3956*	500m	4.5†	20	50	50Δ		100u	5.0m	100p	0.0	20	1.0m	4.0m	35u%		4.0p#	2.8m	200J	#Ø	L74	
9	FM3957*	500m	4.5†	20	50	50Δ		100u	5.0m	100p	0.0	20	1.0m	4.0m	35u%		4.0p#	2.8m	200J	#Ø	L74	
10	FM3958*	500m	4.5†	20	50	50Δ		100u	5.0m	100p	0.0	20	1.0m	4.0m	35u%		4.0p#	2.8m	200J	#Ø	L74	
11	HEPF2007-RT																					
		500m		25		20	30m		30m	20n			10m						175J		u80	
12	MEM620	500m	4.0†	15Δ	25	6.0	30m		18m	20n	4.0	15	14 Δ	%			7.0p#	5.0m	175J	†*	u80	EH
13	MEM621	500m	4.0†	15Δ	25	6.0	30m		30m	20n	4.0	15	16 Δ	%			6.0p#	5.0m	175J	†*	u80	EH
14	MEM622	500m	4.0†	15Δ	25	6.0	30m		20m	20n							7.0p#	5.0m	175J	†*	u80	EH
15	MEM630	500m	4.0†	15Δ	25	6.0	30m		18m	20n	4.0	15	14 Δ	%			7.0p#	5.0m	175J	†*	u130	EE
16	MEM631	500m	4.0†	15Δ	25	6.0	30m		30m	20n	4.0	15	16 Δ	%			6.0p#	5.0m	175J	†*	u130	EE
17	MEM632	500m	4.0†	15Δ	25	6.0	30m		20m	20n							7.0p#	5.0m	175J	†*	u130	EE
18	MEM633	500m	4.0†	15Δ	25	6.0	30m		20m	20n							7.0p#	5.0m	175J	†*	u130	EE
19♦	MPF120	500m	4.0†	15$	25		30m		18m	20n	4.0	15	8.0m	18m			7.0p#	5.0m	175J	Ø*	u80	EH
20♦	MPF121	500m	4.0†	15$	25		30m		30m	20n	4.0	15	10m	20m			6.0p#	5.0m	175J	Ø*	u80	EH
21♦	MPF122	500m	4.0†	15$	25		30m		20m	20n	4.0	15	8.0m	18m			7.0p#	5.0m	175J	Ø*	u80	EH
22	NDF9401▼	500m	4.0†	20Δ	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	L54b	
23	NDF9402▼	500m	4.0†	20Δ	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	L54b	
24	NDF9403▼	500m	4.0†	20Δ	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	L54b	
25	NDF9404▼	500m	4.0†	20Δ	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	L54b	
26	NDF9405▼	500m	4.0†	20Δ	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	L54b	
27	NF510	500m	10†	20	30	30Δ		10m	50m%	10n	0.0	10	20mΔ			50 †	15p#*	4.0m	150J		TO18	DB
28	NF4445	500m	10	5.0Δ	25	25	400m	10m	150m%	3.0nΔ						5.0 %	50p#	2.8m	200S	PE#	TO52	DJ
29	NF4446	500m	10	5.0Δ	25	25	400m	10m	100m%	3.0nΔ						10 %	50p#	2.8m	200S	PE#	TO52	DJ
30	NF4447	500m	10	5.0Δ	20	20	400m	10m	150m%	3.0nΔ						6.0 %	50p#	2.8m	200S	PE#	TO52	DJ
31	NF4448	500m	10	5.0Δ	20	20	400m	10m	100m%	3.0nΔ						12 %	50p#	2.8m	200S	PE#	TO52	DJ
32	TIXS35	500m	5.0	10Δ	30	30		10m	10m%Δ	10n	10Ø	10	10m	20m	200u	50 †	12p#	3.3m	175A	PE$	TO12	DG
33	TIXS36	500m	10	10Δ	30	30		10m	200m%Δ	10n	40Ø	10	10m	20m	400u	50 †	12p#	3.3m	175A	PE$	TO12	DG
34	U280▼	500m	4.5	20		50		50m	6.0m%	100p	0.0	20	1.0m†	3.0m			6.0p#	7.7m	150S	#	L21	
35	U281▼	500m	4.5	20		50		50m	6.0m%	100p	0.0	20	1.0m†	3.0m			6.0p#	7.7m	150S	#	L21	
36	U282▼	500m	4.5	20		50		50m	6.0m%	100p	0.0	20	1.0m†	3.0m			6.0p#	7.7m	150S	#	L21	
37	U283▼	500m	4.5	20		50		50m	6.0m%	100p	0.0	20	1.0m†	3.0m			6.0p#	7.7m	150S	#	L21	
38	U284▼	500m	4.5	20		50		50m	6.0m%	100p	0.0	20	1.0m†	3.0m			6.0p#	7.7m	150S	#	L21	
39	U285▼	500m	4.5	20		50		50m	6.0m%	100p	0.0	20	1.0m†	3.0m			6.0p#	7.7m	150S	#	L21	
40	U308	500m	4.0	10		25		20n	30m%	150p	10Ø	10	10m	20m			5.0pt	4.0m	150	#	TO52	DB
41	U309	500m	6.0	10		25		20n	60m%	150p	10Ø	10	10m	20m			5.0pt	4.0m	150	#	TO52	DB
42	U310	500m	6.0	10		25		20m	60m%	150p	10Ø	10	10m	20m§	250u§		5.0pt	4.0m	150A	#	TO52	DBØ
43	U312	500m	6.0	10		25		10m	30m%	100p	10Ø	10	6.0m	10m§	200u§		3.8pt	4.0m	150A	#	TO52	DBØ
44	UC250	500m	10	20		30			150m%	1.0n	0.0	20	20mf			.03kt	25p			PL	TO18	DB
45	UC251	500m	6.0	20		30			75m%	1.0n	0.0	20	12mf	%		75 †	25p			PL	TO18	DB
46	UC2130Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	L21	
47	UC2132Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	L21	
48	UC2134Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	L21	
49	UC2136Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	L21	
50	UC2138Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	L21	
51	UC2139	500m	6.0	15		30			6.0m	.20n										PE	L21b	
52	UC2149	500m	6.0	20		30			15m	.20n										PE	L21b	
53	A5T6449	625m	15†	30Δ		300		10m	10mΔ	10n	0.0	30	500u☑	3.0m☑	100 %	1.0kt	20p#	5.0m	150A	#†	X55	DB
54	A5T6450	625m	15†	30Δ		200		10m	10mΔ	10n	0.0	30	500u☑	3.0m☑	100 %	1.0kt	20p#	5.0m	150A	#†	X55	DB
55	MPF820	625m	5.0†	15Δ	25	25			10m	5.0n	0.0	15	20mΔ				15p#*	5.0m	150J	#Ø	T092	DD
56	MPF4391†	625m	10†	15Δ	30	30			130m%	1.0n	60Ø	15	20mΔ			30 †	10p#	5.0m	150J	#☑	T092	DD
57	MPF4392†	625m	5.0†	15Δ	30	30			75m%	1.0n	25Ø	15	17mΔ			60 †	10p#	5.0m	150J	#☑	T092	DD
58	MPF4393†	625m	3.0†	15Δ	30	30			30m%	1.0n	5.0Ø	15	12mΔ			100 †	10p#	5.0m	150J	#☑	T092	DD
59	2N4881	800m	15†	50Δ	300	100		10m	2.0m	2.0n	0.0	50	.35m%	1m%	10u%	5.0kt	15p#	4.6m	200S	Ø	T05	DBØ
60	2N4882	800m	15†	50Δ	300	100		10m	7.5m	2.0n	0.0	50	.60m%	1.5m%	20u%	3.0kt	15p#	4.6m	200S	Ø	T05	DBØ
61	2N4883	800m	10†	50Δ	200	100		10m	2.0m	1.0n	0.0	50	.35m%	1m%	10u%	5.0kt	15p#	4.6m	200S	Ø	T05	DBØ
62	2N4884	800m	10†	50Δ	200	100		10m	7.5m	1.0n	0.0	50	.60m%	1.5m%	20u%	3.0kt	15p#	4.6m	200S	Ø	T05	DBØ
63	2N4885	800m	10†	50Δ	125	75		10m	2.0m	1.0n	0.0	50	.35m%	1m%	10u%	5.0kt	15p#	4.6m	200S	Ø	T05	DBØ
64	2N4886	800m	10†	50Δ	125	75		10m	7.5m	1.0n	0.0	50	.60m%	1.5m%	20u%	3.0kt	15p#	4.6m	200S	Ø	T05	DBØ
65	2N5277	800m	7.0†	30		150		10m	12.m	5.0n	0.0	30	2.0m	5.0m	25u		25p#	4.6m	200S	Ø#	T05	DBØ
66	2N5278	800m	10†	30		150		10m	25m	5.0n	0.0	30	3.0m	6.0m	60u		25p#	4.6m	200S	Ø#	T05	DBØ
67	2N6449	800m	15†	30Δ		300		10m	10m%	10n	0.0	30	500u%	3.0m%	100u%		20p#	5.3m	200S	#	T039	DBØ
68	2N6450	800m	15†	30Δ		200		10m	10m%	10n	0.0	30	500u%	3.0m%	100u%		20p#	5.3m	200S	#	T039	DBØ
69	3N169†	800m	1.5Δ	10*	25	35Δ	30m		10n	10p						200	5.0p#	4.5m	200S		T072	DRØ
70	3N170†	800m	2.0Δ	10*	25	35Δ	30m		10n	10p						200	5.0p#	4.5m	200S		T072	DRØ
71	3N171†	800m	3.0Δ	10*	25	35Δ	30m		10n	10p						200	5.0p#	4.5m	200S		T072	DRØ
72	U221	800m	8.0	20		50		25m	110m	1.0n	0.0	20	15m	40m			28p#	4.6m	200J	#	T05	DBØ
73	U222	800m	10	20		50		25m	250m	1.0n	0.0	20	20m	50m			28p#	4.6m	200J	#	T05	DBØ
74	U1715	800m	15†	50		200			50m	5.0n						40kt	25p#	4.5m	200J	Ø	T05	DBØ
75	2N3970†	1.8	10	20Δ	40	40		50m	150m							30kt	25p#	10m	200S		T018	Ø
76	2N3971†	1.8	5.0	20Δ	40	40		50m	75m							60kt	25p#	10m	200S		T018	DBØ
77	2N3972†	1.8	3.0	20Δ	40	40		50m	30m							100kt	25p#	10m	200S		T018	DBØ
78	2N4091	1.8	10	20Δ	40	40Δ		10m	30m%								16p#	10m	200S		T018	DBØ
79	2N4092	1.8	7.0	20Δ	40	40Δ		10m	15m%								16p#	10m	200S		T018	DBØ
80	2N4093	1.8	5.0	20Δ	40	40Δ		10m	8.0m%								16p#	10m	200S		T018	DBØ
81	2N4391†	1.8 Δ	10	20Δ	40	40		50m	150m%	.10n						.03kt	14p#		200S	☑	T018	DBØ
82	2N4392†	1.8 Δ	5.0	20Δ	40	40		50m	75m%	.10n						.06kt	14p#		200S	☑	T018	DBØ
83	2N4393†	1.8 Δ	3.0	20Δ	40	40		50m	30m%	.10n						.10kt	14p#		200S	☑	T018	DBØ
84	2N4977†	1.8 Δ	10†	15Δ	30	30		10m	50m	500p						15 †	35p#	10m	200S		T018	DBØ
85	2N4978†	1.8 Δ	80†	15Δ	30	30		10m	15m	500p						20 †	35p#	10m	200S		T018	DBØ
86	2N4979†	1.8 Δ	5.0†	15Δ	30	30		10m	7.5m	500p						40 †	35p#	10m	200S		T018	DBØ
87	MFE2004†	1.8 Δ	6.0†	20Δ	30	30		10m	8.0m%#	200p						80 †	16p#	10m	175J	#☑	T018	DBØ
88	MFE2005†	1.8 Δ	8.0†	20Δ	30	30		10m	15m%#	200p						50 †	16p#	10m	175J	#☑	T018	DBØ
89	MFE2006†	1.8 Δ	10†	20Δ	30	30		10m	30m%#	200p						30 †	16p#	10m	175J	#☑	T018	DBØ
90	MFE2007†	1.8 Δ	10†	15Δ	25	25		50m	8.0m%#	2.0n						40 †	30p#	10m	175J	#☑	T018	DBØ
91	MFE2008†	1.8 Δ	10†	15Δ	25	25		50m	20m%#	2.0n						30 †	30p#	10m	175J	#☑	T018	DBØ
92	MFE2009†	1.8 Δ	10†	15Δ	25	25		50m	50m%#	2.0n						20 †	30p#	10m	175J	#☑	T018	DBØ
93	MFE2010†	1.8 Δ	10†	15Δ	25	25		50m	15m%#	3.0n						25 †	50p#	10m	175J	#☑	T018	DBØ
94	MFE2011†	1.8 Δ	10†	15Δ	25	25		50m	40m%#	3.0n						15 †	50p#	10m	175J	#☑	T018	DBØ
95	MFE2012†	1.8 Δ	10†	15Δ	25	25		50m	100m%#	3.0n						10 †	50p#	10m	175J	#☑	T018	DBØ
96	U200	1.8 Δ	3.0	20		30		50m	25m	1.0n						150 %	30p#	10m	200S	#☑	T018	DBØ
97	U201	1.8 Δ	5.0	20		30		50m	75m	1.0n						75 %	30p#	10m	200S	#☑	T018	DBØ
98	U202	1.8 Δ	10	20		30		50m	150m	1.0n						50 %	30p#	10m	200S	#☑	T018	DBØ
99	UC707	1.8	12	20		20		50m	250m	2.0n	0.0	20	5.0m			200 †	30p		200		T018	DB
100	CP640	2.0 Δ	10	5.0	20	15	1.2		800m%	100n	40Ø	15	40m	80m				16m	150J	EØ#	TO5	DDØ
101	CP643	2.0 Δ	7.0	5.0	30	15	300m		250m%	10n	25Ø	15	20m	30m				16m	150J	EØ#	TO46	DDØ
102	U320	3.0	10	10		25			500m	3.0n	15	15	75m	200m		10	30p	17m	150	#	TO5	DDØ
103	U321	3.0	4.0	10		25			250m	3.0n	15	15	75m	200m		11	30p	17m	150	#	TO5	DDØ
104	U322	3.0	10	10		25			700m	3.0n	15	15	75m	200m		8.0	30p	17m	150	#	TO5	DDØ
105	CP600	3.6 Δ	8.0	5.0	20Δ	20Δ		10m	180m%	50n	0.0	15	10m	30m		60kΔ	35pt	52m	200J	E	TO59	DDØ
106	CP601	5.4 Δ	8.0	5.0Δ	30Δ	30Δ		10m	180m%	50n	0.0	15	10m	30m		.06kΔ	35pt	.03m	200J	E#	TO59	DDØ
107	CP602	6.0 Δ	15	5.0Δ	20Δ	20Δ		10m	300mΔ	50n	0.0	15	20m	60m		.04kΔ	35pt	.03m	200J	E#	TO59	DDØ
108	CP650	8.0 Δ	10	5.0Δ	25Δ	25Δ	1.2		1.2 %	10n	0.0	15	100mf	250m		4.0	25pt	20u	200J	E	TO5	DDØ
109	CP651	8.0 Δ	10	5.0Δ	20Δ	20Δ	600m		500m%	10n	0.0	15	75m	200mf		7.0	25pt	20u	200J	E#	TO5	DDØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	CP652	8.0 Δ	10	5.0Δ	20Δ	20Δ	600m		100m#%	3.0n	0.0	15	100mΔ	†		4.0	25pt	20u	200J	E#	TO5	DDØ
2	CP653	8.0 Δ	10	5.0Δ	20Δ	20Δ	600m		60m#%	3.0n	0.0	15	60mΔ	†		7.0	25pt	20u	200J	E#	TO5	DDØ
3	CP603	9.0 Δ	15	5.0Δ	30Δ	30Δ		10m	300mΔ	50n	0.0	15	20m	60m		.04kΔ	35pt	.02m	200J	E#	TO59	DDØ
4	U244	10 Δ	8.0	10		25	900m		900m%	1.0n	0.0	10	80m	200m†			35p#	57m	200J	D	TO60	DB
5	U266	10 Δ	15	10		20	500m		300m%		0.0	50	20m	40m		100 %	28p#	80m	150J	#	TO60	DB

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1#	2SA416†		6.0 #	ØJ	700m	50m	70	1.5	60	600uØ	10Ø	600m	40	100	90M§		200n	AD	T03		
2#	2SB282†		30 Ø	#J	6.0	1.0	80	40	60	100uØ	1.0Ø	6.0	15	30	250k†		15u	A	T03		
3#	2SB283†		30 Ø	#J	6.0	1.0	60	20	48	100uØ	1.0Ø	6.0	35	80	250k†		15u	A	T03		
4#	2SB284†		30 Ø	#J	6.0	1.0	60	20	48	100uØ	1.0Ø	6.0	20	45	250k†		15u	A	T03		
5#	2SB285†		30 Ø	#J	6.0	1.0	80	40	60	100uØ	1.0Ø	6.0	20	65	250k†		15u	A	T03		
6#	2SB337		12 Ø		7.0	1.0	40	10	30 §	1.0m	2.0Ø	1.0	50	165	300k†			A	T03		
7#	2SB367		4.0 Ø		1.0		25	12	25 Ø	100m	1.5Ø	.50	45	170	500k†			A	T066		
8#	2SB367H		4.0 Ø		1.0	.30	30	12	25	70m	1.5Ø	.50	50	80	500k†			A	T066		
9#	2SB368		4.0 Ø		1.0		45	12	45 Ø	100m	1.5Ø	.50	45	170	500k†			A	T066		
10#	2SB368H		4.0 Ø		1.0	.30	45	12	35	70m	1.5Ø	.50	50	80	500k†			A	T066		
11#	2SB468		10 Ø		10 Ø	10	200	1.5	90		1.5Ø	4.0	14	130			2.5u#Ø	D	T03		
12#	2SB471		12 Ø		10	3.0	60	10	45	.50m	2.0Ø	1.0	50	165	300k†			A	T03		
13#	2SB472		12 Ø		10	3.0	60	10	45	.50m	2.0Ø	1.0	50	165	300k†			A	T03		
14	HEP200-RT		90 %	♦J	3.0 $		30 $	10$	30 §$	6.0m$	30		40 Ø		600k§				T03	CØ	
15	HEP230-RT		90 %	♦J	5.0 $		30 $	10$	30 §$	3.0m$	30		60 Ø		600k§				T03	CØ	
16	HEP231-RT		150 %	♦J	15 $		30 $	10$	30 §$	6.0m$	30		40 Ø		500k§				T036	A	
17	HEP232-RT		90 %	♦J	7.0 $		70 $	10$	70 Ø$	80u$	2.0		60 Ø		600k§				T03	CØ	
18	HEP233-RT		170 %	♦J	15 $		65 $	60$	65 Ø$	20m$	65		55 Ø		500k§				T036	A	
19	HEP234-RT		56 %	♦J	5.0 $		200 $	2.0$	200 Ø$	400u$	10		60 Ø		1.0M§				T03	CØ	
20	HEP235-RT		56 %	♦J	10 $		320 $	2.0$	320 Ø$	400u$	10		60 Ø		1.0M§				T03	CØ	
21	HEP236-RT		160 %	♦J	25 $		110 $	2.0$	80 Ø$	200u$	2.0		60 Ø		210k§				T041	CØ	
22	HEP237-RT		170 %	♦J	30 $		75 $	40$	60 Ø$	900u$	75		80 Ø		270k§				T036	A	
23	HEP238-RT		20 %	♦J	3.0 $		60 $	20$	40 Ø$	125u$	30		120 Ø		200k§				T05	A	
24	HEP239-RT		20 %	♦J	3.0 $		100 $	20$	60 Ø$	125u$	30		120 Ø		200k§				T05	A	
25	HEP623-RT		77 %	♦J	7.0 $		60 $	20$	35 Ø$	1.0m$	35		70 Ø		600k§				T03	CØ	
26	HEP624-RT		77 %	♦J	7.0 $		60 $	20$	35 Ø$	1.0m$	35		120 Ø		600k§				T03	CØ	
27	HEP625-RT		90 %	#J	10 $		100 $	50$	75 Ø$	20m$	90		40 Ø		5.0k§				T03	CØ	
28	HEP626-RT		85 %	♦J	20 $		80 $	2.0$	50 Ø$	10m$	80		60 Ø		1.0M§				T03	CØ	
29	HEP627-RT		85 %	♦J	10 $		80 $	5.0$	80 Ø$	20m$	80		40 Ø		700k§				T03	CØ	
30	HEP628-RT		77 %	♦J	7.0 $		60 $	20$	35 Ø$	1.0m$	35		45 Ø		600k§				T03	CØ	
31	HEP642-RT		57 %	♦J	3.0 $		30 $	20$	25 Ø$	1.0m$	30		95 Ø		350k§				T066	CØ	
32	HEP643-RT		57 %	♦J	3.0 $		30 $	20$	25 Ø$	1.0m$	30		160 Ø		350k§				T066	CØ	
33	HEP644-RT		85 %	♦J	10 $		160 $	5.0$	160 Ø$	3.0m$	160		40 Ø		50k§				T03	CØ	
34	HEPG6001-RT		85 %	♦J	25 $		90 $	1.5$	80 Ø$	200u$	2.0		70 Ø		850k§				T03	CØ	
35	SK3009-RT		30	#J	10		60	10	50		2.0Ø	1.0	90 Ø		450k§			A	T03	CØ	
36	SK3012-RT		150	#J	15		50	20	30		2.0Ø	5.0	50 Ø		100k§			A	T036	CØ	
37	SK3013-RT		150	#J	15		60	10	50		2.0Ø	1.0	90 Ø		450k§			A*	T03	CØ	
38	SK3014-RT		12	#J	5.0		75	1.5	50		2.0Ø	1.0	150 Ø		4.0M§			D	T03	CØ	
39	SK3015-RT		12	#J	5.0		75	1.5	50		2.0Ø	1.0	150 Ø		4.0M§			D*	T03	CØ	
40	SK3034-RT		10	#J	10		200	2.0					35 Ø		2.5M§			D	T03	CØ	
41	SK3035-RT		5.0	#J	10		320	2.0					25 Ø		2.5M§			D	T03	CØ	
42	SK3052-RT		6.0	#J	2.0		60	12	60				110 Ø		450k§				T066	CØ	
43	SK3082-RT		12		2.0		35	6.0	35				110 Ø		450k§						
44	SK3086-RT		12		2.0		35	6.0	35				110 Ø		450k§			*			
45#	2SB535	4.0mØ	250m	#	1.0	1.0 Ø	35	12	30 §	20u	.50Ø	500m	50	180	1.2M†			A	T039	Á	
46	JAN2N2557	14m	1.1	#S			60	20	40	70uØ	.50Ø	1.0	20	60		250m			MT28	AØ	
47	JAN2N2559	14m	1.1	#S			100	20	60	70uØ	.50Ø	1.0	20	60		250m			MT28	AØ	
48#	AC128-01	22m	1.0	#J	1.0		32	10	16	200u	0.0	1.0	45	165	1.5M§			A*	X9c	A	
49#	AC128K	22m	1.0	#J	1.0 #	40m	32	10	32 §	10uØ	0.0	300m△	90 Ø		1.5M§			△	X9c	A	
50#	AC176K	22m	1.1	ØJ	1.0	500m	32	10	18	50uØ	0.0	300m	50	100 Ø	3.0M§				X9a		
51	2N4106	25m	1.6 Ø	#S	1.0		25	10		25uØ	10	5.0m△	70	350					TO1	A	
52#	AC193	25mØ	1.0 #	#C	1.0		25	10	25 Ø	14uØ		400m△	200 Ø		3.0M§			A	TO1		
53#	AC193K	25mØ	1.0 #	#C	1.0		25	10	25 Ø	14uØ		400m△	200 Ø		3.0M§			A	TO1		
54	2N2786	29m	1.5 Ø	#S	150m		35	.50	20	10uØ	2.0	100m	33	200					T039	AØ	
55#	2SB325	30mØ	1.8	#J	600m	600mØ	120	50	100 §	20uØ	2.0Ø	50m	20	250				AΔ	R57		
56#	AC180K	33m	2.5 Ø	#J	1.0		32	10	24 §	20uØ	1.0Ø	600m	50	250	1.0M§△			A*	X9b		
57#	2SB16A	40mØ	1.8 Ø	ØJ	600m		20			20uØ	2.0Ø	50m	20	50 Ø				A	R57		
58#	2SB17A	40mØ	1.8 Ø	ØJ	600m		40			20uØ	2.0Ø	50m	20	50 Ø				A	R57		
59#	2SB18A	40mØ	1.8 Ø	ØJ	600m		80			20uØ	2.0Ø	50m	20	50 Ø				A	R57		
60	2N1172†	66m		#J	1.5 Ø#	250m	40	20		200u	2.0	100m	30	90	17k	600u	3.0u		TO37	AØ	
61	2N2282	66m	5.0 Ø	♦C	3.0	1.0	60 †	1.5†	30	100uØ♦	1.0Ø	3.0	15		20M§△	400m			TO37	AØ	
62	2N2283	66m	5.0 Ø	♦C	3.0	1.0	100 †	1.5†	60	100uØ♦	1.0Ø	3.0	15		20M§△	400m			TO37	AØ	
63	2N2284	66m	5.0 Ø	♦C	3.0	1.0	200 †	1.5†	100	100uØ♦	1.0Ø	3.0	15		20M§△	400m			TO37	AØ	
64	2N3461	66m	5.0 Ø	♦C	3.0	1.0	60	1.5	30	3.0m#	1.0Ø	500m	90	150	10k△	400m			TO5	AØ	
65#	2SB473	66m	4.3 Ø	#J	1.0		32	6.0		15uØ	0.0	500m△	40	180	10k△			A	MD9b		
66	2N101/13	80m	1.0	ØJ	1.5		30	15	15 §	5.0m#	2.0Ø	500m	11		600k	2.0		A	TO13	FØ	
67#	2SB487	83m	5.0 Ø	#J	500m		30	2.5	20 Ø	20uØ	1.0Ø	300m	30	150	1.0M†			A	MD26a	AØ	
68#	2SB488	83m	5.0 Ø	#J	500m		60	12	30 Ø	20uØ	1.0Ø	300m	30	150	1.0M†			A	MD26a	AØ	
69#	2SB180	85m	5.5 Ø	#J	500m		40	12	30 Ø	1.0m	1.5Ø	500m	20	150				A	TO8		
70#	2SB181	85m	5.5 Ø	#J	500m		60	12	40 Ø	1.0m	1.5Ø	500m	20	150				A	TO8		
71#	2SB481	92m	6.0 Ø	#J	1.0	200m	32	10			0.0	1.0 △	30	110	15k			A	MD9c		
72	2N1183	100m	1.0	#C	3.0	500m	45	20	20	250u		400m	20	60	500k†△	1.2			TO8	AØ	
73	JAN2N1183	100m	7.5	#S			45		20	250u	2.0Ø	400m	20	75	350k†△	750m			TO8	AØ	
74	2N1183A	100m	1.0	#C	3.0	500m	60	20	30	250u		400m	20	60	500k†△	1.2			TO8	AØ	
75	JAN2N1183A	100m	7.5	#S			60		30	250u	2.0Ø	400m	20	75	350k†△	750m			TO8	AØ	
76	2N1183B	100m	1.0	#C	3.0	500m	80	20	40	250u		400m	20	60	500k†△	1.2			TO8	AØ	
77	JAN2N1183B	100m	7.5	#S			80		40	250u	2.0Ø	400m	20	75	350k†△	750m			TO8	AØ	
78	2N1184	100m	1.0	#C	3.0	500m	45	20	20	250u		400m	40	120	500k†△	1.2			TO8	AØ	
79	JAN2N1184	100m	7.5	#S			45	1.5	20		2.0Ø	400m	40	120	350k†△	750m			TO8	AØ	
80	2N1184A	100m	1.0	#C	3.0	500m	60	20	30	250u		400m	40	120	500k†△	1.2			TO8	AØ	
81	JAN2N1184A	100m	7.5	#S			60	1.5	30		2.0Ø	400m	40	120	350k†△	750m			TO8	AØ	
82	2N1184B	100m	1.0	#C	3.0	500m	80	20	40	250u		400m	40	120	500k†△	1.2			TO8	AØ	
83	JAN2N1184B	100m	7.5	#S			80	1.5	40		2.0Ø	400m	40	120	350k†△	750m			TO8	AØ	
84	2N2826	100m	7.5 Ø	♦C	1.0	250m		15	15	1.0m#	2.0Ø	100m	75	200	4.0k△	2.0			TO37	AØ	
85	2N3732	100m#	3.0 Ø	#C	3.0	500m	100 †	.50	100 Ø	200uØ	4.0Ø	700m	35	500	1.0M§△	350m			TO3	CØ	
86#	2SB463	100m	6.0 Ø	#J	2.0	2.0 Ø	32	12	32 §	70uØ	1.0Ø	500mØ	30	250 *	900k†			A	TO66	CØ	
87#	2SB19	122mØ	5.5 Ø	ØJ	2.5		16			100uØ	2.0Ø	50m	20	250				A	R58		
88#	2SB20	122mØ	5.5 Ø	ØJ	2.5		32			100uØ	2.0Ø	50m	20	250				A	R58		
89#	2SB21	122mØ	5.5 Ø	ØJ	2.5		60			100uØ	2.0Ø	50m	20	250				A	R58		
90#	OC26	125m§	13 Ø	#J	3.5	500m	32	10	35	20mØ	1.0Ø	1.0	20	60	150k†			A	TO3	CØ	
91#	2SB493	139m	9.0 Ø	#J	5.0		40	10	20	1.0m	0.0	3.0 △	40		300k§△			A	TO8	A	
92	2N3212	143m	14 Ø	♦J	5.0	2.0	100	2.0	80	1.0m#	2.0Ø	3.0	30	90	600k§	100m	3.0u	D	TO37	AØ	
93	2N3213	143m	14 Ø	♦J	5.0	2.0	80	2.0	60	1.0m#	2.0Ø	3.0	30	90	600k§	100m	3.0u	D	TO37	AØ	
94	2N3214	143m	14 Ø	♦J	5.0	2.0	60	2.0	40	1.0m#	2.0Ø	3.0	30	90	600k§	100m	3.0u	D	TO37	AØ	
95	2N3215	143m	14 Ø	♦J	5.0	2.0	40	2.0	30	1.0m#	2.0Ø	3.0	25	100	600k§	100m	3.0u	D	TO37	AØ	
96	2N83	149m		#S	2.0		66	12			1.5Ø	.50	8.0		350k†						
97	2N3731	167m#	5.0 Ø	#C	10 #	4.0 #	320 †	2.0†	320 Ø	200uØ	3.0Ø	6.0	15			250m			TO3	CØ	
98	2N4346	167m#	5.0 Ø	#C	10	4.0		2.0	60							130m			TO3	CØ	
99#	2SB445	167m	10 Ø	#J	1.5	1.5 Ø	40	1.0	40 §	200uØ	2.0Ø	1.0	40	200	1.5M§			D	MD10a		
100#	2SB446	167m	10 Ø	#J	1.5	1.5 Ø	60	1.0	50 §	100uØ	2.0Ø	1.0	40	200	1.5M§			D	MD10a		
101	40612	167m	12 Ø	#A	5.0	1.0		5.0		3.0u	2.0Ø	1.0	30	150				A	TO3	CØ	
102	40623	167m	12 Ø	#A	5.0	1.0		5.0		500u	2.0Ø	1.0	50	170				A	TO3	CØ	
103	40626	167m	12 Ø	#A	5.0	1.0		5.0		500u	2.0Ø	1.0	50	170				A	TO3	CØ	
104#	AUY10	182m#	4.5 Ø	ØJ	700m	50m	70		60	2.0mØ†	10	600m△	40		120M§			ADΔ	TO3		
105#	2SB180A	185m	12 Ø	#J	500m	500mØ	40	12	30 Ø	500uØ	1.5Ø	500m	25	150	13k			A	TO8		
106#	2SB181A	185m	12 Ø	#J	500m	500mØ	60	12	40 Ø	200uØ	1.5Ø	500m	25 *	150	13k			A	TO8		
107#	2SB338	185m	12 Ø	#J	7.0	1.0	60	10	30	1.0mØ	1.5Ø	4.0	50 Ø		250k†	40m▼		A	MD24		
108#	2SB339	185m	12 Ø	#J	10	1.0	80	50	35	250uØ	1.0Ø	8.0	35 Ø		250k†	70m▼		A	MD24		
109#	2SB340	185m	12 Ø	#J	10	1.0	100	50	40	250uØ	1.0Ø	8.0	35 Ø		250k†	50m▼		A	MD24		
110#	2SB341	185m	12 Ø	#J	10	1.0	120	50	50	250uØ	1.0Ø	8.0	35 Ø		250k†	50m▼		A	MD24		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AXEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	2SB466	185m	12	#J	500m	500mØ	40	12	30 Ø	500uØ	1.5Ø	500m	25	150	13k			A	MD10a	
2#	2SB467	185m	12	#J	500m	500mØ	60	12	40 Ø	200uØ	1.5Ø	500m	25	150	13k			A	MD10a	
3	2N1658/13	200m	15 Ø	#J	1.0		80		50 Ø			200m	30	90	10k			A	ZA22	
4	2N1659/13	200m	15 Ø	#J	1.0		60		40 Ø			200m	30	90	10k			A	ZA22	
5	2N2659	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	30	90		400m			R122	AØ
6	2N2660	200m	15 Ø	#C	3.0	1.0	70 †	20†	70 #	600u#♦	.50Ø	500m	30	90		400m			R122	AØ
7	2N2661	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	30	90		400m			R122	AØ
8	2N2662	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	30	90		400m			MT27	AØ
9	2N2663	200m	15 Ø	#C	3.0	1.0	70 †	20†	70 #	600u#♦	.50Ø	500m	30	90		400m			MT27	AØ
10	2N2664	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	30	90		400m			MT27	AØ
11	2N2665	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	50	150		400m			R122	AØ
12	2N2666	200m	15 Ø	#C	3.0	1.0	70 †	20†	70 #	600u#♦	.50Ø	500m	50	150		400m			R122	AØ
13	2N2667	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	50	150		400m			R122	AØ
14	2N2668	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	50	150		400m			MT27	AØ
15	2N2669	200m	15 Ø	#C	3.0	1.0	70 †	20†	70 #	600u#♦	.50Ø	500m	50	150		400m			MT27	AØ
16	2N2670	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	50	150		400m			MT27	AØ
17#	2SB448	200m	13 Ø	#J	1.0	200m	32	10		1.0m#		1.0 Δ	30	110	10kΔ			A	MD11	
18#	2SB474	200m	12 Ø	#J	2.0		35	6.0	35 §	200uØ	1.5Ø	200m	50	275	700k†			A	TO3	CØ
19#	AD136	200m	11 Ø	#J	10	2.0	40	10	22		.5ØØ	5.0	20	100	300k§			AΔ	TO8	AØ
20#	AUY18	200m*	9.0 Ø	#J	8.0		64	20	35		.5ØØ	5.0 Ø	20	60	300k§			AΔ	TO8	
21#	AUY35	200m	15		10	3.0	70	2.0	25	.10mØ	1.0Ø	5.0	35	260	2.5M§			D	TO8	
22#	AUY36	200m	15		10	3.0	70	2.0	25	.10mØ	1.0Ø	5.0	100		3.0M§			D	TO8	
23#	AD162	222m	6.0 ØØ	#J	3.0	100m	32	10	20	200u	1.0Ø	50m	74	300	1.5M§			A	MD17C	CØ
24	2N2835	250m	16 #		1.0	.20	32	10	32		0.0	1.0 Δ	30			10		A	MD17	
25#	AD148	250m*	11 Ø	#J	2.0	400m	32	10	32 §		1.0Ø	1.0	30	100	450k§			A	MD23	
26#	AD262	250m	10 Ø	#J	4.0	2.0	35	10	20	100uØ	2.0Ø	1.5	30		325 §			A	MD17b	
27#	AD263	250m	10 Ø	#J	4.0	2.0	60	10	40	100uØ	2.0Ø	1.5	20		325 §			A	MD17b	
28#	AL112	250m	10 Ø	#J	6.0	1.0	130	2.0	60	10m	2.0Ø	500m	20	200	3.0M§			D	TO3	CØ
29#	AL113	250m	10 Ø	#J	6.0	1.0	100	1.5	40	10m	2.0Ø	500m	20	200	3.0M§			D	TO3	CØ
30	2N1038-1	263m	1.0	#J	3.0	1.0	40	20	30	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	MT27	AØ
31	2N1038-2	263m	1.0	#J	3.0	1.0	40	20	30	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	MT28	AØ
32	2N1039-1	263m	1.0	#J	3.0	1.0	60	20	40	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	MT27	AØ
33	2N1039-2	263m	1.0	#J	3.0	1.0	60	20	40	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	MT28	AØ
34	2N1040-1	263m	1.0	#J	3.0	1.0	80	20	50	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	MT27	AØ
35	2N1040-2	263m	1.0	#J	3.0	1.0	80	20	50	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	MT28	AØ
36	2N1041-1	263m	1.0	#J	3.0	1.0	100	20	60	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	MT27	AØ
37	2N1041-2	263m	1.0	#J	3.0	1.0	100	20	60	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT28	AØ
38	2N1042-1	263m	1.0	#J	3.0	1.0	40	20	30	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT27	AØ
39	2N1042-2Δ	263m	1.0	#J	3.0	1.0	40	20	30	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT28	AØ
40	2N1043-1	263m	1.0	#J	3.0	1.0	60	20	40	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT27	AØ
41	2N1043-2Δ	263m	1.0	#J	3.0	1.0	60	20	40	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT28	AØ
42	2N1044-1	263m	1.0	#J	3.0	1.0	80	20	50	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT27	AØ
43	2N1044-2Δ	263m	1.0	#J	3.0	1.0	80	20	50	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT28	AØ
44	2N1045-1	263m	1.0	#J	3.0	1.0	100	20	60	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT27	AØ
45	2N1045-2Δ	263m	1.0	#J	3.0	1.0	100	20	60	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	MT28	AØ
46	2N1038	267m	20 Ø	#C	3.0	1.0	40 †	20†	40 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
47	2N1039	267m	20 Ø	#C	3.0	1.0	60 †	20†	60 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
48	2N1040	267m	20 Ø	#C	3.0	1.0	80 †	20†	80 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
49	2N1041	267m	20 Ø	#C	3.0	1.0	100 †	20†	100 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
50	2N1042	267m	20 Ø	#C	3.5	1.0	40 †	20†	40 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			MT6	AØ
51	JAN2N1042	267m	20 Ø	#A	3.0		40	20	30	125uØ	1.0Ø	3.0	20	60					MT28	
52	2N1043	267m	20 Ø	#C	3.5	1.0	60 †	20†	60 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			MT6	AØ
53	JAN2N1043	267m	20 Ø	#A	3.0		60	20	40	125uØ	1.0Ø	3.0	20	60					MT28	
54	2N1044	267m	20 Ø	#C	3.5	1.0	80 †	20†	80 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			MT6	AØ
55	JAN2N1044	267m	20 Ø	#A	3.0		80	20	50	125uØ	1.0Ø	3.0	20	60					MT28	
56	2N1045	267m	20 Ø	#C	3.5	1.0	100 †	20†	100 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			MT6	AØ
57	JAN2N1045	267m	20 Ø	#A	3.0		100 †	20	60	125uØ	1.0Ø	3.0	20	60					MT28	
58	2N2552	267m	20 Ø	#C	3.0	1.0	40 †	20†	30 Ø	125uØ	.50Ø	1.0	20	60		250m			MT27	AØ
59	2N2553	267m	20 Ø	#C	3.0	1.0	60 †	20†	40 Ø	125uØ	.50Ø	1.0	20	60		250m			MT27	AØ
60	2N2554	267m	20 Ø	#C	3.0	1.0	80 †	20†	50 Ø	125uØ	.50Ø	1.0	20	60		250m			MT27	AØ
61	2N2555	267m	20 Ø	#C	3.0	1.0	100 †	20†	60 Ø	125uØ	.50Ø	1.0	20	60		250m			MT27	AØ
62	2N2556	267m	20 Ø	#C	3.0	1.0	40 †	20†	30 Ø	125uØ	.50Ø	1.0	20	60		250m			MT28	AØ
63	2N2557	267m	20 Ø	#C	3.0	1.0	60 †	20†	40 Ø	125uØ	.50Ø	1.0	20	60		250m			MT28	AØ
64	2N2558	267m	20 Ø	#C	3.0	1.0	80 †	20†	50 Ø	125uØ	.50Ø	1.0	20	60		250m			MT28	AØ
65	2N2559	267m	20 Ø	#C	3.0	1.0	100 †	20†	60 Ø	125uØ	.50Ø	1.0	20	60		250m			MT28	AØ
66	2N2560	267m	20 Ø	#C	3.5	1.0	40 †	20†	30 Ø	125uØ	1.0Ø	3.0	20	60		250m			MT27	AØ
67	2N2561	267m	20 Ø	#C	3.5	1.0	60 †	20†	40 Ø	125uØ	1.0Ø	3.0	20	60		250m			MT27	AØ
68	2N2562	267m	20 Ø	#C	3.5	1.0	80 †	20†	50 Ø	125uØ	1.0Ø	3.0	20	60		250m			MT27	AØ
69	2N2563	267m	20 Ø	#C	3.5	1.0	100 †	20†	60 Ø	125uØ	1.0Ø	3.0	20	60		250m			MT27	AØ
70	2N2564	267m	20 Ø	#C	3.5	1.0	40 †	20†	30 Ø	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
71	2N2565	267m	20 Ø	#C	3.5	1.0	60 †	20†	40 Ø	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
72	2N2566	267m	20 Ø	#C	3.5	1.0	80 †	20†	50 Ø	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
73	2N2567	267m	20 Ø	#C	3.5	1.0	100 †	20†	60 Ø	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
74	TI159	267m	20	#J	3.0	1.0	40	20	30	650u	.50	1.0	20	60	225k	250m		A	R101	
75	TI160	267m	20	#J	3.0	1.0	60	20	40	650u	.50	1.0	20	60	225k	250m		A	R101	
76	TI161	267m	20	#J	3.0	1.0	80	20	50	650u	.50	1.0	20	60	225k	250m		A	R101	
77	TI162	267m	20	#J	3.0	1.0	100	20	60	650u	.50	1.0	20	60	225k	250m		A	R101	
78	2N68/13	270m	20 Ø	#J	3.0		30		15 Ø			500m	15		10k			A	ZA24	
79	JAN2N158	283mØ	17	#A	2.0 Ø		60	30	60 Ø	1.0m	2.0Ø	1.0	13	40	4.0kΔ	750m			MM3	FØ
80#	2SB449	300m	22 Ø	#J	3.5	500m	50	20	50 §	3.0m	0.0	3.0 Δ	20	85	10k			A	TO3	CØ
81	2N3730	303m#	10 Ø	#J	3.0	500m	200	50	200 Ø	200uØ	4.0Ø	50mØ	10	200	1.0M§Δ	880m			TO3	CØ
82	2N141/13	333m	20	#J	1.0	500m	60	30	30	2.0m	2.0Ø	500m	25			4.0		A	TO13	FØ
83	2N143/13	333m	20	#J	1.0		60	30	30 §	5.0m	6.0Ø	250m	10			6.0		A	TO13	FØ
84	2N155	333mØ	1.5	#J	3.0	500m	30	15	15	1.0m	2.0Ø	500m	32 Ø		180k†	650m		A	TO3	CØ
85	2N156	333m	1.5	#J	3.0		30	15	30	1.0m♦		500m	24	40 Ø	180k†	600m		AΔ	TO13	D
86	2N158	333m	1.5	#J	3.0		60	30	60	1.0m♦		500m	21	36 Ø	180k†	750m		AΔ	TO13	D
87	2N158A	333m		#J	3.0	500m	80	30	60	1.0m	2.0Ø	500m	21		4.0kΔ	750m			MM3	A
88	2N242	333m	25 Ø	#J	2.0		45	45	45	5.0mØ				40	5.0k	800m			MD9	
89	2N255	333m	1.5	#J	3.0		15	15							200k					CØ
90	2N255A	333mØ		#J	3.0	.50	15	15	15	5.0m	2.0Ø	.50	30 Ø		125k†			A	TO3	CØ
91	2N256	333m	1.5	#J	3.0		30	30							200k					CØ
92	2N256A	333mØ		#J	3.0	.50	30	15	25	5.0mØ	2.0Ø	.50	30 Ø		125k†			A	TO3	CØ
93	2N296	333m	20 Ø	#J	2.0		30	15	60	1.0m	2.0Ø	1.0	20		4.0k	1.0		A	TO3	CØ
94	2N1078	333mØ	20	#J	3.0		60	15	60	1.5m	2.0Ø	500m	40			1.0		Δ	TO13	FØ
95	2N1291	333mØ	20	#J	3.0		35	15	30	1.5m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
96	2N1293	333mØ	20	#J	3.0		60	15	60	1.5m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
97	2N1295	333mØ	20	#J	3.0		80	15	80	2.0m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
98	2N1297	333mØ	20	#J	3.0		100	15	100	2.0m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
99	2N1320	333mØ	20	#J	3.0		35	15	30	1.5	2.0Ø	500m	40			1.0		AΔ	TO10	FØ
100	2N1322	333mØ	20	#J	3.0		60	15	60	1.5	2.0Ø	500m	40			1.0		AΔ	TO10	FØ
101	2N1324	333mØ	20	#J	3.0		80	15	80	2.0	2.0Ø	500m	40			1.0		AΔ	TO10	FØ
102	2N1326	333mØ	20	#J	3.0		100	15	100	2.0m	2.0Ø	500m	40			1.0		Δ	TO10	FØ
103	2N1328	333mØ	20	#J	3.0		35	15	30	2.0m	2.0Ø	500m	40			1.0		Δ	TO13	FØ
104	2N1331	333mØ	20	#J	3.0		80	15	80	1.5m	2.0Ø	500m	40			1.0		Δ	TO13	FØ
105	2N1333	333mØ	20	#J	3.0		100	15	100	2.0m	2.0Ø	500m	40			1.0		Δ	TO13	FØ
106	2N1437	333m	23 Ø	#J	3.0	500m	100	15	80	2.0m	2.0Ø	500m	20		150k	750m		A	TO13	F
107	2N1438	333m	23	#J	3.0	500m	100	30	90 Ø	2.0m	2.0Ø	500m	20		4.0kΔ	1.0		A	TO10	F
108	2N1465	333m	20	#J	3.0	500m	120	15	100 Ø	2.5m	2.0Ø	500m	20			750m		A	TO13	F
109	2N1466	333m	20	#J	3.0	500m	120	15	100 Ø	2.5m	2.0Ø	500m	20			750m		A	TO10	F
110	2N1504/10	333m		#J	3.0	.50	80	30	60	1.0m	2.0Ø	.50	21		150k†	.75		A	TO10	FØ

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#LEADS
1#	OC22	333mØ	15 Ø	ØJ	1.0	200m	47	12	32	100uØ	2.0	1.0	50	150 Ø	2.5Mt			AΔ	TO3	CØ
2	OC23	333mØ*	16 Ø	ØJ	1.0	200m	55	12	24	30uØ	2.0	1.0	50	150 Ø	2.5Mt			AΔ	TO3	CØ
3#	OC24	333mØ	15 Ø	ØJ	1.0	200m	47	12	32	100uØ	2.0	1.0	50	150 Ø	2.5Mt			AΔ	TO3	CØ
4	TI156	333m	1.0	#C	3.0 †	1.0	30 †	15†	30	650u♦	2.0Ø	500m	25	75	220k§Δ	250m		A	MM8	A
5	TI156L	333m	1.0	#C	3.0 †	1.0	30 †	15†	30	650u♦	2.0Ø	500m	25	75	220k§Δ	250m		A	MM7	A
6	JAN2N1046	400m	30 Ø	#J			100	1.5	50	1.0mØ	1.0Ø	500m	40	200	15M§Δ	1.0		D	TO3	Ø
7	2N1755†	400m	28 Ø	#J	3.0	2.0	40	30	30 Ø	3.0m	2.0Ø	500m	30	75	15kΔ	230m	4.0u	A	MS7	
8	2N1756†	400m	28 Ø	#J	3.0	2.0	60	30	50 Ø	3.0m	2.0Ø	500m	30	75	15kΔ	230m	4.0u	A	MS7	
9	2N1757†	400m	28 Ø	#J	3.0	2.0	80	30	65 Ø	3.0m	2.0Ø	500m	30	75	15kΔ	230m	4.0u	A	MS7	
10	2N1758†	400m	28 Ø	#J	3.0	2.0	100	30	75 Ø	3.0m	2.0Ø	500m	30	75	15kΔ	230m	4.0u	A	MS7	
11	2N1759†	400m	28 Ø	#J	3.0	2.0	40	30	35 Ø	3.0m	2.0Ø	500m	60	150	15kΔ	160m	3.5u	A	MS7	
12	2N1760†	400m	28 Ø	#J	3.0	2.0	60	30	50 Ø	3.0m	2.0Ø	500m	60	150	15kΔ	160m	3.5u	A	MS7	
13	2N1761†	400m	28 Ø	#J	3.0	2.0	80	30	65 Ø	3.0m	2.0Ø	500m	60	150	15kΔ	270m	5.0u	A	MS7	
14	2N1762†	400m	28 Ø	#J	3.0	2.0	100	30	75 Ø	2.0m	2.0Ø	500m	60	150	15kΔ	270m	5.0u	A	MS7	
15	2N2067	400m§	10 Ø	#J	3.0	2.0	40	20	35 Ø	3.0m	14Ø	500m	20		7.0k	700m		A	MS7	
16	2N2067-O	400m§	10 Ø	#J	3.0	2.0	40	20	35 Ø	3.0m	14Ø	500m	20		7.0k	500m		A	MS7	CØ
17	2N2067B	400m§	10 Ø	#J	3.0	2.0	40	20	35 Ø	3.0m	14Ø	500m	15		7.0k	500m		A	MS7	CØ
18	2N2067G	400m§	10 Ø	#J	3.0	2.0	40	20	35 Ø	3.0m	14Ø	500m	25		7.0k	500m		A	MS7	CØ
19	2N2067W	400m§	10 Ø	#J	3.0	2.0	40	20	35 Ø	3.0m	14Ø	500m	30		7.0k	500m		A	MS7	CØ
20	2N2068	400m§	10 Ø	#J	3.0	2.0	80	40	65 Ø	3.0m	14Ø	500m	20		7.0k			A	MS7	
21	2N2068-O	400m§	10 Ø	#J	3.0	2.0	80	40	65 Ø	3.0m	14Ø	500m	20		7.0k			A	MS7	CØ
22	2N2068G	400m§	10 Ø	#J	3.0	2.0	80	40	65 Ø	3.0m	14Ø	500m	25		7.0k			A	MS7	CØ
23	CST1773†	400m	28 Ø	#J	3.0	2.0	25	20	20 Ø	5.0m	2.0Ø	500m	25	45 Ø	15k	500m	4.0u	AΔ	MS7	
24	CST1789	400m	28 Ø	#J	3.0	2.0	120	35	90 Ø	3.0m	2.0Ø	500m	30	75	10kΔ	230m		AΔ	MS7	
25	JAN2N539	440m	11 Ø§	#J	3.5 Ø		80	28	55	2.0m	2.0Ø	2.0	30	75 #	300k§Δ	300m			MT36	
26	JAN2N539A	440m	11 Ø§	#J	3.5 Ø		80	28	55	2.0m	2.0Ø	2.0	30	75 #	300k§Δ	300m			MT36	
27	2N250	454m	12	ØJ	2.0		30			1.0m		500m	30	50 Ø	6.6k	2.0		A	MD3	CØ
28	2N251	454m	12	ØJ	2.0		60			2.0m		500m	30	50 Ø	6.6k	2.0		A	MD3	CØ
29	2N538	454m§	10 Ø	#J	3.5 Ø	500m	80	28	60	2.0m	2.0Ø	2.0	20	50	8.0k				MT36	F
30	2N538A	454m§	10 Ø	#J	3.5 Ø	500m	80	28		2.0m	2.0Ø	2.0	20	50	8.0k				MT36	F
31	2N539	454m§	10 Ø	#J	3.5 Ø	500m	80	28	60	2.0m	2.0Ø	2.0	30	75	7.0k				MT36	F
32	2N539A	454m§	10 Ø	#J	3.5 Ø	500m	80	28		2.0m	2.0Ø	2.0	30	75	7.0k				MT36	F
33	2N540	454m§	10 Ø	#J	3.5 Ø	500m	80	28	60	2.0m	2.0Ø	2.0	45	115	6.0k				MT36	F
34	2N540A	454m§	10 Ø	#J	3.5 Ø	500m	80	28		2.0m	2.0Ø	2.0	45	115	6.0k				MT36	F
35	JAN2N539AM	455m§	11 Ø	#J	4.9 Ø	700m	80	28	55	2.0m	2.0Ø	2.0	30	75	300k§Δ				MT36	
36	JAN2N539M	455m§	11 Ø	#J	4.9 Ø	700m	80	28	55	2.0m	2.0Ø	2.0	30	75	300k§Δ				MT36	
37	2N1202	455m§	34 Ø	#J	3.5 Ø	500m	80	28	60	2.0m	2.0Ø	500m	40	120	200k§Δ	600m		A	MT36	F
38	2N1203	455m§	34 Ø	#J	3.5 Ø	500m	120	28	70	2.0m	2.0Ø	2.0	25	75	200k§Δ	300m		A	MT36	F
39	2N1261	455m§	34 Ø	#J	3.5 Ø	500m	80	28	45	2.0m	2.0Ø	2.0	20	50	200k§Δ	300m		A	MT36	F
40	2N1262	455m§	34 Ø	#J	3.5 Ø	500m	80	28	45	2.0m	2.0Ø	2.0	30	75	200k§Δ	300m		A	MT36	F
41	2N1263	455m§	34 Ø	#J	3.5 Ø	500m	80	28	45	2.0m	2.0Ø	2.0	45	113	200k§Δ	300m		A	MT36	F
42	2N1501	455m§	34 Ø	#J	3.5 Ø	500m	60	28	40	2.0m	2.0Ø	2.0	25	100	200k§Δ	300m		A	MT36	F
43	2N1502	455m§	34 Ø	#J	3.5 Ø	500m	40	28	40	2.0m	2.0Ø	2.0	25	100	200k§Δ	300m		A	MT36	F
44	CA2D2	455m	10 Ø§	#J	3.5 Ø	500m	20	12		4.0m	2.0Ø	2.0	20		200kΔ	300m			MT36	
45	2N234A	500m	25 Ø	#J	3.0	150m	30			1.0mØ§					8.0k				TO3	CØ
46	2N235A	500m	25 Ø	#J	3.0 Ø	150m	50	15	40 §	1.0mØ		500m	40 Ø			800m		A	TO3	CØ
47	2N235B	500m		#J	3.0	150m	50	25	40	300u♦					5.0kΔ	800m		Ge		
48	2N236A	500m	25	#J	3.0	150m			40	1.0mØ	5.0Ø	1.0	55 Ø			333m		Ge	TO3	CØ
49	2N236B	500m		#J	3.0	150m	50	25	40	300u♦					5.0kΔ	800m		Ge		
50	2N285A	500m	25 Ø	#J	3.0	150m			40	1.0mØ	5.0Ø	1.0 Ø	100 Ø			500m		Δ	TO3	CØ
51	2N297	500m	35 Ø	#J	5.0		60	40	50 Ø	3.0m	2.0Ø	500m	40	100	5.0k				TO3	CØ
52	2N297A	500m	35 Ø	#J	5.0		60	40	50	3.0m	2.0Ø	500m	40	100	5.0kΔ			Ge	TO3	CØ
53	2N399	500mØ		#J	3.0	.15			40	1.0m		.75	40 Ø		400k	.83			TO3	CØ
54	2N400	500mØ		#J	3.0	.15	50		40	2.0mØ		1.0	50 Ø		500kt	.33			TO3	CØ
55	2N401	500mØ		#J	3.0	.15			40	1.0mØ		.50	40 Ø		400kt	.83			TO3	CØ
56	2N418†	500mØ		#J	5.0	.50	100		80	1.5mØ	2.0Ø	4.0	40	50 Ø	400kt	.50	15u		TO3	CØ
57	2N419	500mØ	25 Ø	#J	3.0	150m	55		45	1.0m	1.5Ø	2.2	9.0	44	300kt	1.5		AΔ	TO3	CØ
58	2N420†	500mØ		#J	5.0	.50	65		45	1.5mØ	2.0Ø	4.0	40	50 Ø	400kt	.50	15u		TO3	CØ
59	2N420A†	500mØ		#J	5.0	.50	90		70	.50mØ	2.0Ø	4.0	40	50 Ø	400kt	.50	15u		TO3	CØ
60	2N553	500m	35	#J	4.0	1.0	80	40		2.0m	2.0Ø	500m	40	55 Ø	20kΔ	300m	5.0u	Ge	MD1	
61	2N637†	500m#	25	#J	5.0	.50			40	1.0mØ	5.0Ø	3.0	30	60			15uØ		TO3	CØ
62	2N637A†	500m#	25	#J	5.0	.50			70	5.0mØ	5.0Ø	3.0	30	60			15uØ		TO3	CØ
63	2N637B†	500m#	25	#J	5.0	.50			80	5.0mØ	5.0Ø	3.0	30	60			15uØ		TO3	CØ
64	2N638†	500m#	25	#J	5.0	.50			40	1.0mØ	5.0Ø	3.0	20	40			15uØ		TO3	CØ
65	2N638A†	500m#	25	#J	5.0	.50			70	5.0mØ	5.0Ø	3.0	20	40			15uØ		TO3	CØ
66	2N638B†	500m#	25	#J	5.0	.50			80	5.0mØ	5.0Ø	3.0	20	40			15uØ		TO3	CØ
67	2N639†	500m#	25	#J	5.0	.50			40	1.0mØ	5.0Ø	3.0	15	30			15uØ		TO3	CØ
68	2N639A†	500m#	25	#J	5.0	.50			70	5.0mØ	5.0Ø	3.0	15	30			15uØ		TO3	CØ
69	2N639B†	500m#	25	#J	5.0	.50			80	5.0mØ	5.0Ø	3.0	15	30			15uØ		TO3	CØ
70	2N663†	500m♦	10 Ø	#C	4.0	1.0	50	20	25	4.0m#♦	2.0Ø	500m	25	75	15kΔ	300m			MD1	CØ
71	2N665	500m	35	#J	5.0 Ø	1.0	80	40	40	2.0m	2.0	.50	40	80	20kΔ	.30	5.0u	AΔ	TO3	CØ
72	JAN2N665	500m	35 Ø	#S	5.0 Ø		80	40	40	10m	2.0Ø	500m	40	80	20kΔ	300m			TO3	CØ
73	2N1138	500mØ		#J	5.0	.50			40		5.0Ø	3.0	100	200					TO3	CØ
74	2N1138A	500mØ		#J	5.0	.50			70		5.0Ø	3.0	100	20					TO3	CØ
75	2N1138B	500mØ		#J	5.0	.50			80		5.0Ø	3.0	100	200					TO3	CØ
76	2N1971	500mØ	38 Ø	#J	4.0 Ø	1.0	80	40	40	20m	2.0Ø	500m	25	60	5.0kΔ	300m			TO3	CØ
77	2N2063	500m	12 §	#S	3.0	500m	40	20	15	10m	2.0Ø	2.0	10	200	2.0kΔ	1.0			TO3	CØ
78	2N2064	500m	12 §	#S	3.0	500m	40	20	15	10m	2.0Ø	2.0	20	200	2.0kΔ	500m			TO3	CØ
79	2N2065	500m	12 §	#S	3.0	500m	80	30	25	10m	2.0Ø	2.0	10	200	2.0kΔ	1.0			TO3	CØ
80	2N2066	500m	12 §	#S	3.0	500m	80	30	25	10m	2.0Ø	2.0	20	200	2.0kΔ	500m			TO3	CØ
81	2N2266†	500m$	12 Ø	♦C	5.0	700m	80	28	80	2.0m♦	2.0Ø	2.0	25	75	20M§Δ	150m	15uØ		MT36	FØ
82	2N2267†	500m$	12 Ø	♦C	5.0	700m	100	28	100	2.0m♦	2.0Ø	2.0	25	75	20M§Δ	150m	15uØ		MT36	FØ
83	2N2268†	500m$	12 Ø	♦C	5.0	700m	80	28	80	2.0m♦	2.0Ø	2.0	25	75	20M§Δ	150m	15uØ		MT36	F
84	2N2269†	500m$	12 Ø	♦C	5.0	700m	100	28	100	2.0m♦	2.0Ø	2.0	25	75	20M§Δ	150m	15uØ		MT36	F
85	2N2836	500m	37 Ø	#C	3.5		55	20	55 §	50uØ	0.0	1.0 Δ	30	100	250kt				TO3	CØ
86	2N3154	500m	38 Ø	#C	3.0	2.0	40	30	25	100uØ	2.0Ø	500m	60	180	15kΔ	500m	10uØ	AΔ	MS7	Ø
87	2N3155	500m	38 Ø	#C	3.0	2.0	60	30	40	100uØ	2.0Ø	500m	60	180	15kΔ	500m	10uØ	AΔ	MS7	Ø
88	2N3156	500m	38 Ø	#C	3.0	2.0	80	30	55	100uØ	2.0Ø	500m	60	180	15kΔ	500m	10uØ	AΔ	MS7	Ø
89	2N3157	500m	38 Ø	#C	3.0	2.0	100	30	65	100uØ	2.0Ø	500m	60	180	15kΔ	500m	10uØ	AΔ	MS7	Ø
90	2N3158	500m	38 Ø	#C	3.0	2.0	40	30	25	100uØ	2.0Ø	500m	30	75	10kΔ	470m	10uØ	AΔ	MS7	Ø
91	2N3159	500m	38 Ø	#C	3.0	2.0	60	30	40	100uØ	2.0Ø	500m	30	75	10kΔ	470m	10uØ	AΔ	MS7	Ø
92	2N3160	500m	38 Ø	#C	3.0	2.0	80	30	55	100uØ	2.0Ø	500m	30	75	10kΔ	470m	10uØ	AΔ	MS7	Ø
93	2N3161	500m	38 Ø	#C	3.0	2.0	100	30	65	100uØ	2.0Ø	500m	30	75	10kΔ	470m	10uØ	AΔ	MS7	Ø
94	2N4241	500m	37 Ø	#C	5.0		32	20	20	45u	1.0	300m	60	300	5.0k	70m			TO3	CØ
95#	2SB426	500m	30 Ø	#J	7.0		32	12	32 §	160uØ	1.5Ø	1.0	34	80	400kt			A	TO3	
96#	AD149	500m	37 Ø	#J	3.5		50	20	30	350uØ	0.0	1.0	30	100	430k	200m		A	TO3	CØ
97#	ADY27*	500m	27	#J	3.5	600m		32	30		1.0Ø	1.0	50	100 *	450k§			A	MD17f	CØ
98#	AU101	500m	10 Ø	#J	10	2.0	120	1.0	120	10m	2.0Ø	5.0	30 Ø		400k§	100m	2.6u#	D	TO3	
99#	AU102	500m	10 Ø	#J	10	2.0	40	1.0	40	10m	2.0Ø	5.0	17 Ø		400k§	100m	3.9u#	D	TO3	
100#	OC25	500m	1.3	#J	4.0		40	10	40	100uØ	1.0Ø	1.0m	15	80	250k			A	TO3	CØ
101	2N1430	588mØ		♦J	10		100		100			5.0	30	120	1.5Mt			DA	TO41	CØ
102	2N2147	660m♦	12 Ø	#J	5.0	1.0	75 †	1.5†	50	10m	2.0Ø	1.0	100	300	3.0M§Δ	250m			TO3	CØ
103	2N2148	660m♦	12 Ø	#J	5.0	1.0	60 †	1.0†	40	10m	2.0Ø	1.0	40	160	2.0M§Δ	250m			TO3	CØ
104	40421	660m	12 Ø♦	#J	5.0	1.0	75	1.5	50	1.0mØ	2.0Ø	1.0	62	175	4.0M§			D	TO3	CØ
105	2N257	666m	45 Ø	#J	3.0	2.0	40	10	35 Ø	2.0m	2.0Ø	2.0	40 Ø		5.0kΔ	750m		A	TO3	CØ
106	2N257B	666m	45 Ø	#J	3.0	2.0	40	20	35 Ø	5.0m	2.0Ø	2.0	50 Ø		5.0kΔ	500m		A	TO3	CØ
107	2N257G	666m	45 Ø	#J	3.0	2.0	40	20	35 Ø	5.0mΔ	2.0Ø	2.0	40 Ø		5.0kΔ	750m		A	TO3	CØ
108	2N257W	666m	45 Ø	#J	3.0	2.0	40	20	35 Ø	5.0mΔ	2.0Ø	2.0	60 Ø		5.0kΔ	500m		A	TO3	CØ
109	2N268	666m	45 Ø	#J	3.0	2.0	80	40	60 Ø	2.0m	2.0Ø	2.0	40 Ø		6.0kΔ	1.0		A	TO3	CØ
110	2N268A	666m	45 Ø	#J	3.0	2.0	80	20	60 Ø	2.0m	2.0Ø	2.0	80			500m		AΔ	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAT EMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG Y200 s/a TO200 Ser.	#LEAD CODE
1	JAN2N297A	666m	50 Ø	#S		5.0 Ø	80	40	40	3.0m	2.0Ø	500m	40	100	5.0kΔ	350m			MD6a	A
2	2N307	666m	50 Ø	#J	5.0		35	10	35	5.0mØ	1.0Ø	200m	20	30 Ø	3.0kΔ	500m		A	TO3	CØ
3	2N307A	666m	50 Ø	#J	5.0		35	10	35	2.0mØ	1.0Ø	200m	30	35 Ø	3.5kΔ	800m		A	TO3	CØ
4	2N392	666m		#J	5.0 Ø	1.0	60	40	40	8.0m	2.0Ø	3.0	60	150	6.0kΔ	166m		Ge	TO3	CØ
5	2N456A	666m	50 Ø	#J	7.0	3.0	40	20	20	2.0m♦	1.5Ø	5.0	30	90	200k§Δ	100m			TO3	CØ
6	2N457A	666m	50 Ø	#J	7.0	3.0	60	20	30	2.0m♦	1.5Ø	5.0	30	90	200k§Δ	100m			TO3	CØ
7	2N458A	666m	50 Ø	#J	7.0	3.0	80	20	40	2.0m♦	1.5Ø	5.0	30	90	200k§Δ	100m			TO3	CØ
8	JAN2N463	666m	50 Ø	#S	5.0 Ø	1.0	60	50		300uØ	2.0Ø	2.0	20	60	5.0kΔ	80m			TO32	A
9	2N1011	666m	45 Ø	#J	5.0 Ø	1.0	80	40	40	20m	2.0	3.0	30	75	5.0kΔ	500m	5.0u	A	TO3	CØ
10	JAN2N1011	666m	50 Ø	#S	5.0 Ø		80	40	40	10m	2.0Ø	3.0	30	75	5.0kΔ	500m			TO3	C
11	2N1120	666m	45 Ø	#J	15 Ø	1.0	80	40	70 Ø	15m	2.0Ø	10	20	50	3.0kΔ	100m		AΔ	TO41	CØ
12	2N1168	666m		#J	5.0 Ø	1.0	50	20	30 §§	8.0m	2.0Ø	1.0	110 Ø		10kΔ	83m		Ge	TO3	CØ
13	2N1666	666mØ*	30 Ø	#J	6.0	1.0	80	40	60	100uØ	1.0Ø	6.0	15	30	250kt		20u	AΔ	MD3	
14	2N2061	666m	10 §	#S	3.0	500m	20	10	10	2.0m	2.0Ø	500m	10	60	2.0kΔ	4.0			TO3	CØ
15	2N2062	666m	10 §	#S	3.0	500m	20	10	10	2.0m	2.0Ø	2.0	20	200	2.0kΔ	500m			TO3	CØ
16	2N2869	666m#	30 Ø	#J	10	3.0	60	10	50		2.0Ø	1.0	50	165	4.0k	250m		A	TO3	CØ
17	2N2870	666m#	30 Ø	#J	10	3.0	80	10	50		2.0Ø	1.0	50	165	4.0k	100m		A	TO3	CØ
18#	2SB41	666m	44 Ø	#J	1.2		40	12	32 Ø	2.0mØ	1.5Ø	1.0	35	160	5.0k			A	TO3	
19#	2SB42	666m	44 Ø	#J	1.2		60	12	50 Ø	2.0mØ	1.5Ø	1.0	35	160	5.0k			A	TO3	
20#	2SB151	666m	50 Ø	#J	5.0	5.0 Ø	80	60	60 §	500uØ	1.5Ø	3.0	30	75	5.0k	200m		A	TO3	
21#	2SB152	666m	50 Ø	#J	5.0	5.0 Ø	100	60	80 §	500uØ	1.5Ø	3.0	30	75	5.0k	200m		A	TO3	
22#	2SB295	666mØ*	40 Ø	#J	5.0		100	40	65 §	3.0m	1.0Ø	1.0	30	120	4.5k	200m		A	TO3	
23#	2SB309	666m	43 Ø	#J	8.0		75	1.0		220uØ	1.0Ø	1.0	30	125	17k			D	TO3	
24#	2SB310	666m	43 Ø	#J	8.0		140	1.0		220uØ	1.0Ø	1.0	30	125	17k	110m		D	TO3	
25#	2SB318	666m	50 Ø	#J	5.0	5.0 Ø	60	1.0	40 §	1.0mØ	2.0Ø	1.0	40	200	2.0M§			D	TO3	
26#	2SB319	666m	50 Ø	#J	5.0	5.0 Ø	100	1.0	60 §	1.0mØ	2.0Ø	1.0	40	200	3.0M§			D	TO3	
27#	2SB320	666m	50 Ø	#J	10	10 Ø	100	2.0	60 §	1.0mØ	2.0Ø	1.0	40	200	2.0M§	100m	1.6u	D	TO3	
28#	2SB432	666m	50 Ø	#J	5.0	5.0 Ø	150	2.0	100 §	1.0mØ	2.0Ø	5.0	40	170	3.0M§	100m		D	TO3	
29	40022	666m♦	12 Ø	#J	5.0	1.0	32	5.0	32 §	1.0m	2.0Ø	1.0	38	70 Ø	300k§			A	TO3	CØ
30	40050	666m♦	12 Ø	#J	5.0	1.0	40	5.0	40	500uØ	2.0Ø	1.0	50	90	500k§			A	TO3	CØ
31	40051	666m♦	12 Ø	#J	5.0	1.0	50	5.0	50	500uØ	2.0Ø	1.0	50	90	500k§			A	TO3	CØ
32	40254	666m♦	12 Ø	#J	5.0	1.0	32	5.0	32 §	3.0m	2.0Ø	1.0	30	70 Ø	300k§			A	TO3	CØ
33	40439	666m#	5.0 Ø	#J	10	4.0	320	2.0	320 Ø	200uØ						250m	750nt	D	TO3	CØ
34	40440	666m#	5.0 Ø	#J	10	4.0	200	2.0	200 Ø	200uØ						120m	1.2ut	D	TO3	CØ
35	40462	666m§	12 Ø	#J	5.0	1.0	40 †	5.0†	40	500u♦Ø	2.0Ø	1.0	50	90 Ø	600k§	200m		A	TO3	CØ
36#	AD130	666m*	30 Ø	#J	3.0	500m	32	10	30		1.0Ø	1.0	20	100	350k§			A	TO3	
37#	AD131	666m*	30 Ø	#J	3.0	500m	64	20	45		1.0Ø	1.0	20	100	350k§			A	TO3	
38#	AD132	666m*	30 Ø	#J	3.0	500m	80	20	60		1.0Ø	1.0	20	100	350k§			AΔ	TO3	
39#	AD133	666m*	30 Ø	#J	15	2.0	50	10	32		.50Ø	5.0	20	60	300k§		25uØ	AΔ	TO41	
40#	AD140	666m	1.5	#J	3.0		55	10	40	100u	1.0Ø	1.0	30	100	430k	200m		A	TO3	CØ
41#	AD142	666m	30 Ø	#J	10	3.0	80	10	80 Ø	100uØ	2.0Ø	1.0	30	170	450k§			A	TO3	
42#	AD143	666m	30 Ø	#J	10	3.0	40	10	40 Ø	100uØ	2.0Ø	1.0	30	170	450k§			A	TO3	
43#	AD143R	666m	30 #	#J	10	3.0	32	10	25	160uØ	2.0Ø	1.0	30	170				A	TO3	
44#	AD150	666mⓏ	30 Ø	#J	3.5	500m	32	10	30		1.0Ø	1.0	30	100	450k§			A	TO3	
45#	AL100	666m	30 Ø	#J	10	3.0	130	2.0	130 Ø	100uØ	2.0Ø	1.0	40	250	4.0M§			D	TO3	
46#	AL102	666m	30 Ø	#J	6.0	1.0	130	2.0	130 Ø	100uØ	2.0Ø	1.0	40	250	4.0M§			D	TO3	
47#	AL103	666m	30 Ø	#J	6.0	1.0	100	1.5	130 Ø	100uØ	2.0Ø	1.0	40	250	3.0M§			D	TO3	
48#	ASZ15†	666m*	30 Ø	#J	8.0	1.0	100	40	60	3.0m	1.0Ø	1.0	20	55	200k§	40m	25uⓏ		TO3	CØ
49#	ASZ16†	666m*	30 Ø	#J	8.0	1.0	60	20	32	3.0m	1.0Ø	1.0	45	130	250k§	40m	25uⓏ		TO3	CØ
50#	ASZ17†	666m*	30 Ø	#J	8.0	1.0	60	20	32	3.0m	1.0Ø	1.0	25	75	220k§	40m	25uⓏ		TO3	CØ
51#	ASZ18†	666m*	30 Ø	#J	8.0	1.0	100	40	32	3.0m	1.0Ø	1.0	30	110	220k§	40m	25uⓏ		TO3	CØ
52#	AU103†	666m	10 Ø♦	#J	10	2.5	155	4.0	155 #	10m	1.0Ø	10	15		15M§		1.7u	AD	TO3	
53#	AU104	666m§	15 Ø	#J	12	2.5	185	4.0	185 #	10m	1.0Ø	12	14		15M§		1.8u	AD	TO3	Ø
54#	AU106	666m	5.0 Ø	#J	10	4.0	320	2.0	320 Ø	200uØ	1.3Ø	6.0	15	80	2.0M§			D	TO3	
55#	AU107	666m	30 Ø	*J	10	1.0	200	2.0	200 Ø	200uØ	2.0Ø	700m	35	120	2.0M§			D	TO3	
56#	AU108	666m	30 Ø	*J	10	1.0	100	2.0	100 Ø	200uØ	2.0Ø	700m	35	200				D	TO3	
57#	AU108F	666m	30 Ø	*J	10	1.0	100	2.0	100	200uØ	2.0Ø	1.0	120	250				D	TO3	
58#	AU110	666m	30 Ø	#J	10	3.0	160	2.0	160 Ø	100uØ	2.0Ø	1.0	20	90				D	TO3	
59#	AU111	666m	5.0 Ø	#J	10	4.0	320	2.0	320 Ø	200uØ	1.3Ø	6.0	15	80	2.0M§			D	TO3	
60#	AU112	666m	5.0 Ø	#J	10	4.0	320	2.0	320 Ø	200uØ	1.3Ø	6.0	15	40	2.0M§			D	TO3	
61#	AU113	666m	5.0 #	#J	10		250	3.0		200uØ	1.3Ø	6.0	15	80				D	TO3	
62#	AUY19	666m*	30 Ø	#J	3.0		64	20	45		1.0Ø	1.0	20	100	350k§		10uØ	AΔ	TO3	
63#	AUY20	666m*	30 Ø	#J	3.0		80	20	60		1.0Ø	1.0	20	100	350k§		10uØ	AΔ	TO3	
64#	AUY21	666m*	30 Ø	#J	10		65	20	45 §		.50Ø	5.0	13	60	300k§		12uØ	AΔ	TO41	
65#	AUY21A	666m	36 *		10	2.0	65	20	45		.50Ø	5.0	12	60	300k§			A	TO3	
66#	AUY22	666m*	30 Ø	#J	8.0		80	20	60 §		.50Ø	5.0	13	40	300k§		12uØ	AΔ	TO41	
67#	AUY22A	666m	36 *		8.0	1.5	80	20	60		.50Ø	5.0	12	60	300k§			A	TO3	
68#	AUY29	666m*	36 Ø	#J	15		50	10	32 §	1.0m	.50Ø	5.0	20	60	300k§		12uØ	AΔ	TO41	
69#	AUY34	666m	30 Ø	#J	3.0	500m	100	20	80						350k§	500m			TO3	
70#	AUY38	666m	30 #	#J	10	3.0	130	2.0	60	100uØ	1.0Ø	5.0	35	260	2.5M§			D	TO3	
71	CDT1310†	666m	45 Ø	#J	5.0	2.0	40	35	35 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	TO3	CØ
72	CDT1311†	666m	45 Ø	#J	5.0	2.0	60	35	50 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	TO3	CØ
73	CDT1312†	666m	45 Ø	#J	5.0	2.0	80	35	65 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	TO3	CØ
74	CDT1313†	666m	45 Ø	#J	5.0	2.0	100	35	75 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	TO3	CØ
75	CDT1319†	666m	45 Ø	#J	5.0	2.0	40	35	35 Ø	5.0m	2.0Ø	2.0	60		6.0k	300m	3.5u	A	TO3	CØ
76	CDT1320†	666m	45 Ø	#J	5.0	2.0	60	35	50 Ø	5.0m	2.0Ø	2.0	20	60	6.0k	300m	3.5u	A	TO3	CØ
77	CDT1321†	666m	45 Ø	#J	5.0	2.0	80	35	65 Ø	5.0m	2.0Ø	2.0	20	60	6.0k	300m	3.5u	A	TO3	CØ
78	CDT1322†	666m	45 Ø	#J	5.0	2.0	100	35	75 Ø	5.0m	2.0Ø	2.0	20	60	6.0k	300m	3.5u	A	TO3	CØ
79#	NKT420	666m	1.3	#J	5.0	1.0	120	50		150uØ	1.0Ø	1.0	30	90					MD17d	CØ
80#	NKT451	666m	1.3	#J	3.0	500m	36	10		150uØ	1.0Ø	1.0	50	150					MD17d	CØ
81#	NKT452	666m	1.3	#J	3.0	500m	36	10		150uØ	1.0Ø	1.0	30	90					MD17d	CØ
82#	NKT453	666m	1.3	#J	3.0	500m	36	10		150uØ	1.0Ø	1.0	15	45					MD17d	CØ
83#	OC20	666m	1.3	#J	10		100	40	75	20mØ	1.0Ø	1.0m	25	75	250k	133m		A	TO3	CØ
84#	OC28†	666mØ	30 Ø	#J	8.0	1.0	80	40	60	100uØ	1.0Ø	1.0	20	55	250kt		20u	AΔ	TO3	Ø
85#	OC29†	666mØ	30 Ø	#J	8.0	1.0	60	20	32	100uØ	1.0Ø	1.0	45	130	250kt		20u	AΔ	TO3	
86#	OC35†	666mØ	30 Ø	#J	8.0	1.0	60	20	32	100uØ	1.0Ø	1.0	25	75	250kt		20u	AΔ	TO3	
87#	OC36†	666mØ	30 Ø	#J	8.0	1.0	80	40	32	100uØ	1.0Ø	1.0	30	110	250kt		20u	AΔ	TO3	
88	2N285B	667m		#J	3.0	.15			40	1.0mØ		.50	150 Ø			.50		DAΔ	TO3	
89	2N561	667m	10	#J	5.0	20	80	60	65	3.0m	2.0Ø	4.0	20	50	650kt	.20	90u	AΔ	TO3	CØ
90	2N1007	667mØ		#	3.0		40	15	30	1.0mØ	14	.50	30 Ø		5.0kt	1.0			TO3	CØ
91	2N1905	667m#	30 Ø	#J	6.0	1.0	100 †	1.5†	50	10m	2.0Ø	1.0	50	150	2.0M§Δ	200m			TO3	CØ
92	2N1906	667m†	30 Ø	#J	6.0	1.0	130 †	1.5†	60	10m	2.0Ø	1.0	75	250	3.0M§Δ	100m			TO3	CØ
93#	2SB126	667m		#J	3.5		32	10	16	.22mØ	1.0Ø	3.0	15	50				A	TO3	
94#	2SB127	667m		#J	3.5		32	10	16	.22mØ	1.0Ø	3.0	26	100				A	TO3	
95#	2SB128	667m		#J	6.0		80	40	40	.22mØ	1.0Ø	6.0	16	36				A	TO3	
96#	2SB128A	667m		#J	6.0		120	60	60	.22mØ	1.0Ø	6.0	16	36				A	TO3	
97#	2SB129	667m		#J	6.0		80	40	40	.22mØ	1.0Ø	6.0	30	80				A	TO3	
98#	AUY37	667m	30 #		10	3.0	100	40	55	.10mØ	2.0Ø	1.0	30	110	450k§			A	TO3	
99	2N1667†	670m*	30 Ø	#C	6.0	1.0	60	20	48 #	5.0m	2.0Ø	6.0	35	80	2.0kΔ	83m	30uⓏ		TO3	CØ
100	2N1668†	670m*	30 Ø	#C	6.0	1.0	60	20	48 #	5.0m	2.0Ø	6.0	20	45	2.0kΔ	83m	30uⓏ		TO3	CØ
101	2N1669†	670m*	30 Ø	#C	6.0	1.0	80	40	60 #	30mt	2.0Ø	6.0	20	65	2.0kΔ	83m	30uⓏ		TO3	CØ
102♦	2N5324†	670m	56 Ø	♦J	10	3.0	250 †	4.0†	150		2.0Ø	5.0	20	60		50m	15uⓏ		TO3	CØ
103♦	2N5325†	670m	56 Ø	♦J	10	3.0	325 †	4.0†	200		2.0Ø	5.0	20	60		50m	15uⓏ		TO3	CØ
104	2N5887	670m	57 Ø	♦J	7.0	2.0	20	20	20 Ø	5.0m#	2.0Ø	500m	15	350		57m			TO66	CØ
105	2N5888	670m	57 Ø	♦J	7.0	2.0	30	20	30 Ø	5.0m#	2.0Ø	500m	15	350		57m			TO66	CØ
106	2N5889	670m	57 Ø	♦J	7.0	2.0	30	20	30 Ø	5.0m#	2.0Ø	500m	30	70		57m			TO66	CØ
107	2N5890	670m	57 Ø	♦J	7.0	2.0	45	20	45 Ø	5.0m#	2.0Ø	500m	30	70		57m			TO66	CØ
108	2N5891	670m	57 Ø	♦J	7.0	2.0	60	20	60 Ø	5.0m#	2.0Ø	500m	30	70		57m			TO66	CØ
109	2N5892	670m	57 Ø	♦J	7.0	2.0	75	20	75 Ø	5.0m#	2.0Ø	500m	30	70		57m			TO66	CØ
110	2N5893	670m	57 Ø	♦J	7.0	2.0	30	20	30 Ø	5.0m#	2.0Ø	500m	60	120		57m			TO66	CØ

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX. RATINGS @25°C TEMP	Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L C E 0 A D D E
1	2N5894	670m	57 Ø	♦J	7.0	2.0	45	20	45 Ø	5.0m#	2.0Ø	500m	60	120		57m			TO66	CØ
2	2N5895	670m	57 Ø	♦J	7.0	2.0	60	20	60 Ø	5.0m#	2.0Ø	500m	60	120		57m			TO66	CØ
3	2N5896	670m	57 Ø	♦J	7.0	2.0	75	20	75 Ø	5.0m#	2.0Ø	500m	60	120		57m			TO66	CØ
4	2N5897	670m	57 Ø	♦J	7.0	2.0	30	20	30 Ø	5.0m#	2.0Ø	500m	100	200		57m			TO66	CØ
5	2N5898	670m	57 Ø	♦J	7.0	2.0	45	20	45 Ø	5.0m#	2.0Ø	500m	100	200		57m			TO66	CØ
6	2N5899	670m	57 Ø	♦J	7.0	2.0	60	20	60 Ø	5.0m#	2.0Ø	500m	100	200		57m			TO66	CØ
7	2N5900	670m	57 Ø	♦J	7.0	2.0	75	20	75 Ø	5.0m#	2.0Ø	500m	100	200		57m			TO66	CØ
8	2N5901	670m	57 Ø	♦J	7.0	2.0	30	20	30 Ø	5.0m#	2.0Ø	500m	175	350		57m			TO66	CØ
9	2N6064†	670m	56 Ø	♦J	10	5.0	80	5.0	80	3.0m	2.0Ø	3.0	20	50		80m	10uØØ		R155	A
10	2N6065†	670m	56 Ø	♦J	10	5.0	120	5.0	120	3.0m	2.0Ø	3.0	20	50		80m	10uØØ		R155	A
11	2N6066†	670m	56 Ø	♦J	10	5.0	160	5.0	160	3.0m	2.0Ø	3.0	20	50		80m	10uØØ		R155	A
12	MP3730	670m	56 Ø	♦J	5.0		200	2.0	200 Ø	400uØ	4.0Ø	50m	10	200	1.0M§△	10		E △	TO3	CØ
13	MP3731	670m	56 Ø	♦J	10		320	2.0	320 Ø	400uØ	3.0Ø	6.0	15		1.0M§△	833m		E △	TO3	CØ
14	2N1227	710m	50 Ø	#C	30	500m	35 †	10†	20	2.0m	14Ø	500m	25	320	3.0k△	5.3			TO3	CØ
15#	2SB447	714m	45 Ø	#J	6.0	6.0 Ø	220	3.0		500uØ	1.0Ø	6.0	15	50	1.5M†	50m		D	TO3	
16#	2SB311	770m	50 Ø	#J	10		180	1.0		220uØ	1.0Ø	1.0	30	125	17k	110m		D	TO3	
17#	NKT401†	770m	1.3	#J	10	2.0	90	40	60	150uØ	1.0Ø	1.0	25	75	430k†	140m	10u		MD17d	CØ
18#	NKT402†	770m	1.3	#J	10	2.0	60	20	32	150uØ	1.0Ø	1.0	60	180	430k†	140m	16u		MD17d	CØ
19#	NKT403†	770m	1.3	#J	10	2.0	80	40	32	150uØ	1.0Ø	1.0	50	150	430k†	420m	16u		MD17d	CØ
20#	NKT404†	770m	1.3	#J	10	2.0	60	20	32	150uØ	1.0Ø	1.0	50	150	430k†	420m	16u		MD17d	CØ
21#	NKT405	770m	1.3	#J	5.0	1.0	60	20		150uØ	1.0Ø	1.0	100	200	430k†	420m			MD17d	CØ
22#	NKT406†	770m	1.3	#J	10	2.0	60	20	32	150uØ	1.0Ø	1.0	30	50	430k†	420m	15u		MD17d	CØ
23#	OC19	770m	50 Ø	#J	3.0		32	10	16	100uØ	7.0Ø	300m	16	90	200k	266m		A	TO3	CØ
24	2N1073	800m		♦C	10	10 Ø	40	1.5	40 §	20m♦	2.0Ø	5.0	20	60		200m			MD27a	CØ
25	2N1073A	800m		♦C	10	10 Ø	80	1.5	80 §	20m♦	2.0Ø	5.0	20	60		200m			MD27a	CØ
26	2N1073B	800m		♦C	10	10 Ø	120	1.5	120 §	20m♦	2.0Ø	5.0	20	60		200m			MD27a	CØ
27	2N3751†	833mt†	45 Ø	#J	3.0		80		60 Ø	3.0mØ	4.0Ø	1.0	35	90	10k	500m	20u		TO3	CØ
28	2N378†	833m	50 Ø	#S	5.0		40		20	500uØ	2.0Ø	2.0	40	80	5.0k△		25u	A	TO3	CØ
29	2N379†	833m	50 Ø	#S	5.0		80		40	500uØ	2.0Ø	2.0	20	70	5.0k△		25u	A	TO3	CØ
30	2N380	833m	50 Ø	#J	5.0		30			500u	2.0Ø	2.0	30	70	8.0k△	500m	25u	A	TO3	CØ
31	2N459†	833m	50 Ø	#J	5.0		105			500uØ	2.0Ø	2.0	20	70	5.0k△	500m	25u	A	TO3	CØ
32	2N618†	833mt†	45 Ø	#J	3.0		80		60 Ø	3.0mØ	4.0Ø	1.0	60	140	8.5k	400m	20u		TO3	CØ
33	2N1136	833m		#J	6.0	1.0	60		40	5.0u♦	5.0Ø	30	50	100		333m			TO3	CØ
34	2N1136A	833m		#J	6.0	1.0	90		70	5.0u♦	5.0Ø	30	50	100		333m			TO3	CØ
35	2N1136B	833m		#J	6.0	1.0	100		80	5.0u♦	5.0Ø	30	50	100		333m			TO3	CØ
36	2N1137	833mØ		#J	6.0		60		30	1.0mØ	5.0Ø	3.0	75	150		.33	5.0u		TO3	CØ
37	2N1137A	833mØ		#J	6.0		90		55	1.0mØ	5.0Ø	3.0	75	150		.33	5.0u		TO3	CØ
38	2N1137B	833mØ		#J	6.0		100		65	1.0mØ	5.0Ø	3.0	75	150		.33	5.0u		TO3	CØ
39	2N1159†	833m§	20 Ø	#J	5.0 Ø	1.0	80	20	60	8.0m	2.0Ø	3.0	30	75	10k		10u		TO3	CØ
40	2N1160†	833m§	20 Ø	#J	7.0 Ø	1.0	80	20	60	8.0m	2.0Ø	5.0	20	50	10k		10u		TO3	CØ
41	2N1314	833m	12 Ø	#J	3.5		40	10	40	100uØ	14Ø	30m	20	75					TO3	CØ
42	2N2137	833m	62 Ø	#J	3.0	3.0 Ø	30	15	20	2.0m	2.0Ø	500m	30	60	12k△	250m			TO3	CØ
43	2N2137A	833m	62 Ø	#J	3.0	3.0 Ø	30	15	20	2.0m	2.0Ø	500m	30	60	12k△	250m			TO3	CØ
44	2N2138	833m	63 Ø	#J	3.0		45	25	30	2.0m	2.0Ø	500m	30	60	12k△	250m		A	TO3	CØ
45	2N2138A	833m	62 Ø	#J	3.0	3.0 Ø	45	25	30	2.0m	2.0Ø	500m	30	60	12k△	250m			TO3	CØ
46	2N2139	833m	63 Ø	#J	3.0		60	30	45	2.0m	2.0Ø	500m	30	60	12k△	250m		A	TO3	CØ
47	2N2139A	833m	62 Ø	#J	3.0	3.0 Ø	60	30	45	2.0m	2.0Ø	500m	30	60	12k△	250m			TO3	CØ
48	2N2140	833m	63 Ø	#J	3.0		75	40	60	2.0m	2.0Ø	500m	30	60	12k△	250m		A	TO3	CØ
49	2N2140A	833m	62 Ø	#J	3.0	3.0 Ø	75	40	60	2.0m	2.0Ø	500m	30	60	12k△	250m			TO3	CØ
50	2N2141	833m	63 Ø	#J	3.0		90	45	65	2.0m	2.0Ø	500m	30	60	12k△	250m		A	TO3	CØ
51	2N2141A	833m	62 Ø	#J	3.0	3.0 Ø	90	45	65	2.0m	2.0Ø	500m	30	60	12k△	250m			TO3	CØ
52	2N2142	833m	62 Ø	#J	3.0	3.0 Ø	30	15	20	2.0m	2.0Ø	500m	50	100	12k△	250m			TO3	CØ
53	2N2142A	833m	62 Ø	#J	3.0	3.0 Ø	30	15	20	2.0m	2.0Ø	500m	50	100	12k△	250m			TO3	CØ
54	2N2143	833m	63 Ø	#J	3.0		45	25	30	2.0m	2.0Ø	500m	50	100	12k△	250m		A	TO3	CØ
55	2N2143A	833m	62 Ø	#J	3.0	3.0 Ø	45	25	30	2.0m	2.0Ø	500m	50	100	12k△	250m			TO3	CØ
56	2N2144	833m	63 Ø	#J	3.0		60	30	45	2.0m	2.0Ø	500m	50	100	12k△	250m		A	TO3	CØ
57	2N2144A	833m	62 Ø	#J	3.0	3.0 Ø	60	30	45	2.0m	2.0Ø	500m	50	100	12k△	250m			TO3	CØ
58	2N2145	833m	63 Ø	#J	3.0		75	40	60	2.0m	2.0Ø	500m	50	100	12k△	250m		A	TO3	CØ
59	2N2145A	833m	62 Ø	#J	3.0	3.0 Ø	75	40	60	2.0m	2.0Ø	500m	50	100	12k△	250m			TO3	CØ
60	2N2146	833m	63 Ø	#J	3.0		90	45	65	2.0m	2.0Ø	500m	50	100	12k△	250m		A	TO3	CØ
61	2N2146A	833m	62 Ø	#J	3.0	3.0 Ø	90	45	65	2.0m	2.0Ø	500m	50	100	12k△	250m			TO3	CØ
62	2N2288	833m	60 Ø	♦C	10	1.0	40 †	.75†	40 §	5.0m	2.0Ø	5.0	20	60		200m			TO3	CØ
63	2N2289	833m	60 Ø	♦C	10	1.0	80 †	.75†	80 §	5.0m	2.0Ø	5.0	20	60		200m			TO3	CØ
64	2N2290	833m	60 Ø	♦C	10	1.0	120 †	.75†	120 §	5.0m	2.0Ø	5.0	20	60		200m			TO3	CØ
65	2N2291	833m	60 Ø	♦C	10	1.0	40 †	1.5†	30	5.0m	2.0Ø	5.0	50	120		200m			TO3	CØ
66	2N2292	833m	60 Ø	♦C	10	1.0	80 †	1.5†	50	5.0m	2.0Ø	5.0	50	120		200m			TO3	CØ
67	2N2293	833m	60 Ø	♦C	10	1.0	120 †	1.5†	70	5.0m	2.0Ø	5.0	50	120		200m			TO3	CØ
68	2N2294†	833m	60 Ø	♦C	10	3.0	40 †	1.5†	30	15m	2.0Ø	5.0	50	120		200m	10uØØ		TO41	CØ
69	2N2295†	833m	60 Ø	♦C	10	3.0	80 †	1.5†	50	15m	2.0Ø	5.0	50	120		200m	10uØØ		TO41	CØ
70	2N2296†	833m	60 Ø	♦C	10	3.0	120 †	1.5†	70	20m	2.0Ø	5.0	50	120		200m	10uØØ		TO41	CØ
71	2N3611	900m	85 Ø	♦C	7.0 †	2.0	40 †	20†	30 Ø	5.0m♦	2.0Ø	3.0	35	105	300k§△	80m			TO3	CØ
72	2N3612	900m	85 Ø	♦C	7.0 †	2.0	60 †	30†	45 Ø	5.0m♦	2.0Ø	3.0	35	105	300k§△	80m			TO3	CØ
73	2N3613	900m	85 Ø	♦C	7.0 †	2.0	40 †	20†	30 Ø	5.0m♦	2.0Ø	3.0	60	180	300k§△	80m			TO3	CØ
74	2N3614	900m	85 Ø	♦C	7.0 †	2.0	60 †	30†	45 Ø	5.0m♦	2.0Ø	3.0	60	180	300k§△	80m			TO3	CØ
75	2N3615	900m	85 Ø	♦C	7.0 †	2.0	80 †	40†	60 Ø	5.0m♦	2.0Ø	3.0	30	90	300k§△	80m			TO3	CØ
76	2N3616	900m	85 Ø	♦C	7.0 †	2.0	100 †	50†	75 Ø	5.0m♦	2.0Ø	3.0	30	90	300k§△	80m			TO3	CØ
77	2N3617	900m	85 Ø	♦C	7.0 †	2.0	80 †	40†	60 Ø	5.0m♦	2.0Ø	3.0	45	135	300k§△	80m			TO3	CØ
78	2N3618	900m	85 Ø	♦C	7.0 †	2.0	100 †	50†	75 Ø	5.0m♦	2.0Ø	3.0	45	135	300k§△	80m			TO3	CØ
79	2N456†	909m	50 Ø	#J	5.0 †	3.0	40 †	20†	40 #	2.0m	1.5Ø	1.0	130 Ø			48m	26uØ	A	TO3	CØ
80	2N457†	909m	50 Ø	#J	5.0 †	3.0	60 †	20†	60 #	2.0m	1.5Ø	1.0	130 Ø			48m	26uØ	A	TO3	CØ
81	2N458†	909m	50 Ø	#J	5.0 †	3.0	80 †	20†	80 #	2.0m	1.5Ø	1.0	130 Ø			48m	26uØ	A	TO3	CØ
82#	2SB433	909mØ	56 Ø	#J	15	15 Ø	70	40	60 §	4.0mØ	2.0Ø	5.0	30	120		60m		A△	TO36	
83#	2SB351	935m	70 Ø	#J	15	15 Ø	40	20	30	3.0mØ	2.0Ø	5.0	30	150	4.0k	59m		A	TO36	
84#	2SB352	935m	70 Ø	#J	15	15 Ø	60	40	40	3.0mØ	2.0Ø	5.0	30	150	4.0k	59m		A	TO36	
85#	2SB353	935m	70 Ø	#J	15	15 Ø	80	40	50	3.0mØ	2.0Ø	5.0	30	150	4.0k	59m		A	TO39	
86#	2SB354	935m	70 Ø	#J	15	15 Ø	100	60	60	3.0mØ	2.0Ø	5.0	30	150	4.0k	59m		A	TO36	
87	2N173†	1.0		#J	15 Ø	4.0	60	40		8.0m	2.0Ø	5.0	35	70	10k		15u		TO36	CØ
88	2N277	1.0		#J	15 Ø	4.0	40	20	40	8.0m	2.0Ø	5.0	35	70	10k		15u		TO36	CØ
89	2N278	1.0		#J	15 Ø	4.0	50	30	45	8.0m	2.0Ø	5.0	35	70	10k		15u		TO36	CØ
90	2N301	1.0 §Ø	11 Ø	#S	1.5		40	10	40	3.0mØ	1.5	1.0		70				A△	TO3	CØ
91	2N301A	1.0 §Ø	11 Ø	#S	1.5		60	10	60	3.0mØ	1.5	1.0		70				A△	TO3	CØ
92	2N350	1.0 ♦	10 Ø	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	700m	20	60	5.0k△	133m▼		A	TO3	CØ
93	2N351	1.0 ♦	10 Ø	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	700m	25	90	5.0k△	133m▼		A	TO3	CØ
94	2N376	1.0 ♦	10 Ø	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	700m	35	120	5.0k△	133m▼		A	TO3	CØ
95	2N441†	1.0		#J	15 Ø	4.0	40	20		8.0m	2.0Ø	5.0	20	40	10k		15u		TO36	CØ
96	2N442†	1.0		#J	15 Ø	4.0	50	30		8.0m	2.0Ø	5.0	20	40	10k		15u		TO36	CØ
97	2N443†	1.0		#J	15 Ø	4.0	60	40		8.0m	2.0Ø	5.0	20	40	10k		15u		TO36	CØ
98	2N554	1.0 ♦	10 Ø	#J	3.0		40			50uØ	2.0Ø	500m	30 Ø		8.0k	200m▼		A	TO3	CØ
99	2N555	1.0 ♦	10 Ø	#J	3.0		40			50uØ	2.0Ø	500m	20	30 Ø	8.0k	200m▼		A	TO3	CØ
100	2N1046	1.0 #	50 Ø	#J	12	3.0	100	1.5	50	2.0mØ	1.5Ø	5.0	40		10M§△	80m			TO3	CØ
101	2N1046A	1.0	50 Ø	#J	12	3.0	130	1.5	50	2.0mØ♦	1.5Ø	5.0	40		15M§△	80m			TO3	CØ
102	2N1046B	1.0	50 Ø	#J	12	3.0	130	1.5	50	2.0mØ♦	1.5Ø	10	2.0		15M§△	90m			TO3	CØ
103	JAN2N1412	1.0	70 Ø	#J			100	60	65	6.0m	2.0Ø	5.0	25	50	5.0k△	50m			MT63	BØ
104	2N1412A	1.0	70 Ø	#J	10		100	60	70	6.0m	2.0Ø	5.0	25	50	5.0k△	50m			MT63	CØ
105	JAN2N1412A	1.0	70 Ø	#J			100	60	70	6.0m	2.0Ø	5.0	25	50	5.0k△	50m			MT63	BØ
106	2N2210	1.0	70	#J	15	4.0	100	60	65	4.0m♦	2.0Ø	5.0	25	50	5.0k△	50m			R167	CØ
107	2N2444	1.0	85 Ø	♦C	10	3.0	80 †	1.0†	80	20m	2.0Ø	3.0	90	120	4.5M§△	200m			TO3	CØ
108	2N2526†	1.0	85 Ø	♦C	10	5.0	80	5.0	80	3.0m	2.0Ø	3.0	20	50		80m	11uØØ		MD6k	CØ
109	2N2527†	1.0	85 Ø	♦C	10	5.0	120	5.0	120	3.0m	2.0Ø	3.0	20	50		80m	11uØØ		MD6k	CØ
110	2N2528†	1.0	85 Ø	♦C	10	5.0	160	5.0	160	3.0m	2.0Ø	3.0	20	50		80m	11uØØ		MD6k	CØ

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N2612	1.0	75 Ø	#C	15	5.0	65	30	65 #	500mΔ♦	2.0Ø	3.0	85	250	2.0kΔ	1.0			TO3	CØ
2	2N2832†	1.0	85 Ø	♦C	20	5.0	80	2.0	50	10m	2.0Ø	10	25	100	10M§Δ	150m	4.0u		TO3	CØ
3	2N2833†	1.0	85 Ø	♦C	20	5.0	120	2.0	75	10m	2.0Ø	10	25	100	10M§Δ	150m	4.0u		TO3	CØ
4	2N2834†	1.0	85 Ø	♦C	20	5.0	140	2.0	100	10m	2.0Ø	10	25	100	10M§Δ	150m	4.0u		TO3	CØ
5	JAN2N2834†	1.0	85 Ø	♦J	20		160	2.0	100	10m	2.0Ø	10	25 #	100	10M§Δ	150m	4.0u		MD6e	CØ
6	2N2912†	1.0	75 Ø	♦A	25	3.0	15	1.5	5.0	10m#	2.0Ø	5.0	200	800	10M§Δ	20m	2.0u		R74	AØ
7#	2SB131	1.0	65 Ø	#J	1.5	1.5 Ø	40	12	32 Ø	2.0mØ	1.5Ø	1.0	35	160	5.0k			A	TO3	
8#	2SB131A	1.0	65	#J	8.0		40	12	32 Ø	2.0mØ	1.5Ø	1.0	40	160	5.0k	.20		A	TO3	
9#	2SB132	1.0	65 Ø	#J	1.5	1.5 Ø	60	12	50 Ø	2.0mØ	1.5Ø	1.0	35 *	160	5.0k			A	TO3	
10#	2SB132A	1.0	65	#J	8.0		60	12	50 Ø	2.0mØ	1.5Ø	1.0	40	160	5.0k	.20		A	TO3	
11	3N45†	1.0		#J	12 Ø	500m	60	28	60	3.0m	2.0Ø	5.0	30	120 #	16k		3.0u	A$	TO15	GB
12	3N46†	1.0		#J	12 Ø	500m	80	28	80	3.0m	2.0Ø	5.0	20	80	12k		6.0u	A$	TO15	GB
13	3N47	1.0	75 Ø	#J	12 Ø	1.5	40	28	25	3.0m	2.0Ø	5.0	30	120	500kΔ	80m			TO15	GBØ
14	3N48	1.0	75 Ø	#J	12 Ø	1.5	60	28	40	3.0m	2.0Ø	5.0	20	80	300kΔ	80m			TO15	GBØ
15#	CTP1544	1.0	1.7 *	#J	25		60	30	30	15m	2.0Ø	25	25 †	125 †	4.0k	40m			TO3	
16#	CTP1552	1.0	1.7 *	#J	25		40	30	20	15m	2.0Ø	25	25 †	125 †	4.0k	40m			TO3	
17	DTG110A	1.0		♦J	15	5.0		2.8	70		2.0Ø	1.0	50	300 *	850k§Δ				Y204a	CØ
18	DTG600†	1.0 †	60 Ø	♦J	15	5.0		1.4	50	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
19	DTG601†	1.0 †	60 Ø	♦J	15	5.0		1.4	60	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
20	DTG602†	1.0 †	60 Ø	♦J	15	5.0		1.4	70	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
21	DTG603†	1.0 †	60 Ø	♦J	15	5.0		1.4	80	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
22	DTG603M†	1.0 †	60 Ø	♦J	15	2.5		1.4	80	100m*	2.0Ø	5.0	50	250 *			13u☑		Y204a	CØ
23	DTG2000†	1.0 †	60 Ø	♦J	15	5.0		1.0	30	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
24	DTG2100†	1.0 †	60 Ø	♦J	15	5.0		1.0	60	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
25	DTG2200†	1.0 †	60 Ø	♦J	15	5.0		1.0	80	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
26	DTG2300†	1.0 †	60 Ø	♦J	15	5.0		1.0	100	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
27	DTG2400†	1.0 †	60 Ø	♦J	15	5.0		1.0	120	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
28	DTG2400M†	1.0 †	60 Ø	♦J	15	5.0		1.5	120	20m#	2.0Ø	10	25	125 #		36m	18u☑		Y204a	CØ
29	MP6001†	1.0	85 Ø	♦J	25	5.0	75	1.5	50	200uØ	2.0Ø	5.0	50			30m	10u☑	ADE	TO3	CØ
30	MP6011†	1.0	85 Ø	♦J	25	5.0	75	1.5	60	200uØ	2.0Ø	5.0	50			30m	10uØ	ADE	TO3	CØ
31	MP6021†	1.0	85 Ø	♦J	25	5.0	90	1.5	70	200uØ	2.0Ø	5.0	50			30m	10uØ	ADE	TO3	CØ
32	MP6031†	1.0	85 Ø	♦J	25	5.0	90	1.5	80	200uØ	2.0Ø	5.0	50			30m	10u☑	ADE	TO3	CØ
33	MP1612	1.0	85	♦J	20		70	2.0	50			10	25	100	18M§	.03			TO3	CØ
34	MP1612A	1.0	85	♦J	20		110	2.0	75			10	25	100	18M§	.03			TO3	CØ
35	MP1612B	1.0	85	♦J	20		13	2.0	100			10	25	100	18M§	.03			TO3	CØ
36	MP1613	1.0	85	♦J	7.0	2.0	100	50	75	5.0m	2.0Ø	1.0	40	70 Ø					TO3	CØ
37	MP2060	1.0	85 Ø	♦C	7.0	2.0	40	20	25	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
38	MP2061	1.0	85 Ø	♦C	7.0	2.0	60	20	35	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
39	MP2062	1.0	85 Ø	♦C	7.0	2.0	75	20	50	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
40	MP2063	1.0	85 Ø	♦C	7.0	2.0	90	20	60	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
41	2N174†	1.2 §	30 Ø	#J	15 Ø	4.0	80	60		8.0m	2.0Ø	5.0	25	50	10k		15u		TO36	CØ
42	2N174A†	1.2 §	30 Ø	#J	15	4.0	80	60		8.0m	2.0Ø	1.2	40	80	100kΔ	58m	15u		TO36	CØ
43	2N176	1.2	90 Ø	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	500mØ	25	90	7.0k	800m		A	TO3	CØ
44	2N178	1.2	40 Ø	#J	3.0		30	20	30	3.0mØ	2.0Ø	500m	15	45	6.0k	800m		A	TO3	CØ
45	2N250A	1.2	90 Ø	#J	7.0	2.0	40	20	25 ☑	1.0mØ♦	1.5Ø	3.0	25	100	160k§Δ	230m			TO3	CØ
46	2N251A	1.2	90 Ø	#J	7.0	2.0	60	20	35 ☑	2.0mØ♦	1.5Ø	3.0	25	100	160k§Δ	230m			TO3	CØ
47	2N350A	1.2		#C	5.0	5.0 Ø	50	25	40 Ø	20m♦	2.0Ø	700m	20	60	5.0kΔ	583m			TO3	CØ
48	2N351A	1.2		#C	5.0	5.0 Ø	50	25	40 Ø	20m♦	2.0Ø	700m	25	90	5.0kΔ	437m			TO3	CØ
49	2N376A	1.2		#C	5.0	5.0 Ø	50	25	40 Ø	20m♦	2.0Ø	700m	35	120	5.0kΔ	350m			TO3	CØ
50	2N459A	1.2	106 Ø	♦C	5.0	3.0	105	25	60	500uØ♦	2.0Ø	2.0	40	70	5.0k§Δ	150m			MD6a	CØ
51	2N589	1.2	90	J	3.0		100	50	7.5 Ø	2.0mØ	2.0Ø	3.0 Ø	20	40				A	TO3	
52	2N627	1.2		#J	10	10 Ø	40	20	20	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
53	2N628	1.2		#J	10	10 Ø	60	30	30	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
54	2N629	1.2		#J	10	10 Ø	80	40	40	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
55	2N630	1.2		#J	10	10 Ø	100	50	50	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
56	2N669	1.2		#J	3.0	3.0 Ø	40	20	20	20m♦	2.0Ø	500m		250	3.0kΔ	133m▼			TO3	CØ
57	2N677	1.2		#J	15		50	25	20	15m♦	2.0Ø	10	20	60		100m			TO3	CØ
58	2N677A	1.2		#J	15		60	25	30	15m♦	2.0Ø	10	20	60		100m			TO3	CØ
59	2N677B	1.2		#J	15		90	25	60	15m♦	2.0Ø	10	20	60		100m			TO3	CØ
60	2N677C	1.2		#J	15		100	25	70	15m♦	2.0Ø	10	20	60		100m			TO3	CØ
61	2N678	1.2		#J	15		50	25	20	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
62	2N678A	1.2		#J	15		60	25	30	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
63	2N678B	1.2		#J	15		90	25	60	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
64	2N678C	1.2		#J	15		100	25	70	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
65	2N1021	1.2 $	90 Ø	#J	7.0	3.0	100	20	50	2.0m	1.5Ø	5.0	30	90	200k	100m		AΔ	TO3	CØ
66	2N1022	1.2 $	90 Ø	#J	7.0	3.0	120	20	55	2.0m	1.5Ø	5.0	30	90	200k	100m		A	TO3	CØ
67	2N1031	1.2	90 Ø	#J	15	1.5	50	25	30 Ø	15m	2.0Ø	10	20	60		100m	15u	AΔ	TO41	CØ
68	2N1031A	1.2	90 Ø	#J	15	1.5	60	25	40 Ø	15m	2.0Ø	10	20	60		100m	15u	AΔ	TO41	CØ
69	2N1031B	1.2	90 Ø	#J	15	1.5	90	25	70 Ø	15m	2.0Ø	10	20	60		100m	15u	AΔ	TO41	CØ
70	2N1031C	1.2	90 Ø	#J	15	1.5	100	25	80 Ø	15m	2.0Ø	10	20	60		100m	15u	AΔ	TO41	CØ
71	2N1032	1.2	90 Ø	#J	15	1.5	50	25	30 Ø	15m	2.0Ø	10	50	100		100m	15u	AΔ	TO41	CØ
72	2N1032A	1.2	90 Ø	#J	15	1.5	60	25	40 Ø	15m	2.0Ø	10	50	100		100m	15u	AΔ	TO41	CØ
73	2N1032B	1.2	90 Ø	#J	15	1.5	90	25	70 Ø	15m	2.0Ø	10	50	100		100m	15u	AΔ	TO41	CØ
74	2N1032C	1.2	90 Ø	#J	15	1.5	100	25	80 Ø	15m	2.0Ø	10	50	100		100m	15u	AΔ	TO41	CØ
75	2N1099†	1.2 §	30 Ø	#J	15 Ø	4.0	80	40		8.0m	2.0Ø	5.0	35	70	10k	58m	15u		TO36	CØ
76	2N1100†	1.2 §	30 Ø	#J	15 Ø	4.0	100	80		8.0m	2.0Ø	5.0	25	50	10k	58m	15u		TO36	CØ
77	JAN2N1120	1.2	90 Ø	#J	15 Ø	5.0	80	40	40	10m	2.0Ø	10	20	50	3.0kΔ	70m		Δ	TO41	CØ
78	2N1146	1.2	90 Ø	#J	15	5.0	40	30	30 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO3	CØ
79	2N1146A	1.2	90 Ø	#J	15	5.0	60	30	45 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO3	CØ
80	2N1146B	1.2	90 Ø	#J	15	5.0	80	30	60 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO3	CØ
81	2N1146C	1.2	90 Ø	#J	15	5.0	100	30	75 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO3	CØ
82	2N1147	1.2	90 Ø	#J	15	5.0	40	30	30 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO41	CØ
83	2N1147A	1.2	90 Ø	#J	15	5.0	60	30	45 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO41	CØ
84	2N1147B	1.2	90 Ø	#J	15	5.0	80	30	60 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO41	CØ
85	2N1147C	1.2	90 Ø	#J	15	5.0	100	30	75 Ø	4.0m	2.0Ø	5.0	60	150	4.0k	70m		AΔ	TO41	CØ
86	2N1162	1.2		#J	25	25 Ø	50	20	25	15m♦	1.0Ø	25	15	65	1.0kΔ	32m			TO3	CØ
87	2N1162A	1.2		#C	25	25 Ø	50	25	20	15m♦	1.0Ø	25	15	65	3.0kΔ	32m			TO3	CØ
88	2N1163	1.2		#J	25	25 Ø	50	20	25	15m♦	1.0Ø	25	15	65	1.0kΔ	32m			TO41	CØ
89	2N1163A	1.2		#C	25	25 Ø	50	25	20	15m♦	1.0Ø	25	15	65	3.0kΔ	32m			TO41	CØ
90	2N1164	1.2		#J	25	25 Ø	80	25	35	15m♦	1.0Ø	25	15	65	1.0kΔ	32m			TO3	CØ
91	2N1164A	1.2		#C	25	25 Ø	80	40	40	15m♦	1.0Ø	25	15	65	3.0kΔ	32m			TO3	CØ
92	2N1165	1.2		#J	25	25 Ø	80	25	35	15m♦	1.0Ø	25	15	65	1.0kΔ	32m			TO41	CØ
93	JAN2N1165	1.2	90 Ø	#J	25 Ø		80	40	60 Ø	15m	1.0Ø	5.0	25	125	3.0kΔ	40m			TO41	CØ
94	2N1165A	1.2		#C	25	25 Ø	80	40	40	15m♦	1.0Ø	25	15	65	3.0kΔ	32m			TO41	CØ
95	2N1166	1.2		#J	25	25 Ø	100	30	45	15m♦	1.0Ø	25	15	65	1.0kΔ	32m			TO3	CØ
96	2N1166A	1.2		#C	25	25 Ø	100	50	50	15m♦	1.0Ø	25	15	65	3.0kΔ	32m			TO3	CØ
97	2N1167	1.2		#J	25	25 Ø	100	30	45	15m♦	1.0Ø	25	15	65	1.0kΔ	32m			TO41	CØ
98	2N1167A	1.2		#C	25	25 Ø	100	50	50	15m♦	1.0Ø	25	15	65	3.0kΔ	32m			TO41	CØ
99	2N1182	1.2	106 Ø	#S	5.0	1.0		50	12	60	12m#1	2.0Ø	500m	30	85	5.0kΔ	450m		TO3	CØ
100	2N1358†	1.2 §	30 Ø	#J	15 Ø	4.0	80	60		8.0m	2.0	1.2	40	80	100kΔ		15u		TO36	CØ
101	2N1359	1.2		#C	3.0	3.0 Ø	50	25	40 Ø	20m♦	4.0Ø	1.0	35	90	5.0kΔ	500m			TO3	CØ
102	2N1360	1.2		#C	3.0	3.0 Ø	50	25	40 Ø	20m♦	4.0Ø	1.0	60	140	5.0kΔ	500m			TO3	CØ
103	2N1362	1.2		#C	3.0	3.0 Ø	100	50	75 Ø	20m♦	4.0Ø	1.0	35	90	5.0kΔ	500m			TO3	CØ
104	2N1363	1.2		#C	3.0	3.0 Ø	100	50	75 Ø	20m♦	4.0Ø	1.0	60	140	5.0kΔ	500m			TO3	CØ
105	2N1364	1.2		#C	3.0	3.0 Ø	120	60	100 Ø	20m♦	4.0Ø	1.0	35	90	5.0kΔ	500m			TO3	CØ
106	2N1365	1.2		#C	3.0	3.0 Ø	120	60	100 Ø	20m♦	4.0Ø	1.0	60	140	5.0kΔ	500m			TO3	CØ
107	2N1412	1.2	87 Ø	#J	15 Ø	4.0	100	60	65	6.0m	2.0Ø	5.0	25	50		60m		Δ	TO36	CØ
108♦	2N1518	1.2	87 Ø	#J	25	4.0	50	30	40	100uØ♦	4.0Ø	15	15	60		28m		A	TO36	CØ
109	2N1519	1.2	70 Ø	#J	25	4.0	80	30	60	100uØ♦	4.0Ø	15	15	60		28m		A	TO36	CØ
110	2N1520	1.2	70 Ø	#J	35	6.0	50	30	40	100uØ♦	4.0Ø	15	17	68		17m		A	TO36	CØ

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	2N1521	1.2	70 Ø	#J	35	6.0	80	30	60	100uØ♦	4.0Ø	15	17	68		17m		A	T036	CØ
2	2N1522	1.2	70 Ø	#J	50	8.0	50	30	40	100 Ø♦	4.0Ø	15	25	100		10m		A	T036	CØ
3	2N1523	1.2	70 Ø	#J	50	8.0	80	30	60	100 Ø♦	4.0Ø	15	25	100		10m		A	T036	CØ
4	2N1529	1.2		#C	5.0	5.0 Ø	40	20	30 Ø	200uØ♦	2.0Ø	3.0	20	40	2.0k	500m			T03	CØ
5	2N1530	1.2		#C	5.0	5.0 Ø	60	30	45 Ø	200uØ♦	2.0Ø	3.0	20	40	2.0k	500m			T03	CØ
6	2N1531	1.2		#C	5.0	5.0 Ø	80	40	60 Ø	200uØ♦	2.0Ø	3.0	20	40	2.0k	500m			T03	CØ
7	2N1532	1.2		#C	5.0	5.0 Ø	100	50	75 Ø	200uØ♦	2.0Ø	3.0	20	40	2.0k	500m			T03	CØ
8	2N1533	1.2		#C	5.0	5.0 Ø	120	60	90 Ø	200uØ♦	2.0Ø	3.0	20	40	2.0k	500m			T03	CØ
9	2N1534	1.2		#C	5.0	5.0 Ø	40	20	30 Ø	200uØ♦	2.0Ø	3.0	35	70	2.0k	400m			T03	CØ
10	2N1535	1.2		#C	5.0	5.0 Ø	60	30	45 Ø	200uØ♦	2.0Ø	3.0	35	70	2.0k	400m			T03	CØ
11	2N1536	1.2		#C	5.0	5.0 Ø	80	40	60 Ø	200uØ♦	2.0Ø	3.0	35	70	2.0k	400m			T03	CØ
12	2N1537	1.2		#C	5.0	5.0 Ø	100	50	75 Ø	200uØ♦	2.0Ø	3.0	35	70	2.0k	400m			T03	CØ
13	2N1538	1.2		#C	5.0	5.0 Ø	120	60	90 Ø	200uØ♦	2.0Ø	3.0	35	70	2.0k	400m			T03	CØ
14	2N1539	1.2		#C	5.0	5.0 Ø	40	20	30 Ø	200uØ♦	2.0Ø	3.0	50	100	1.0k	100m			T03	CØ
15	2N1539A	1.2		#C	5.0	5.0 Ø	40	20	20	20m♦	2.0Ø	3.0	50	100	3.0kΔ	200m			T03	CØ
16	2N1540	1.2		#C	5.0	5.0 Ø	60	30	45 Ø	200uØ♦	2.0Ø	3.0	50	100	1.0k	100m			T03	CØ
17	2N1540A	1.2		#C	5.0	5.0 Ø	60	30	30	20m♦	2.0Ø	3.0	50	100	3.0kΔ	200m			T03	CØ
18	2N1541	1.2		#C	5.0	5.0 Ø	80	40	60 Ø	200uØ♦	2.0Ø	3.0	50	100	1.0k	100m			T03	CØ
19	2N1541A	1.2		#C	5.0	5.0 Ø	80	40	40	20m♦	2.0Ø	3.0	50	100	3.0kΔ	200m			T03	CØ
20	2N1542	1.2		#C	5.0	5.0 Ø	100	50	75 Ø	200uØ♦	2.0Ø	3.0	50	100	1.0k	100m			T03	CØ
21	2N1542A	1.2		#C	5.0	5.0 Ø	100	50	50	20m♦	2.0Ø	3.0	50	100	3.0kΔ	200m			T03	CØ
22	2N1543	1.2		#C	5.0	5.0 Ø	120	60	90 Ø	200uØ♦	2.0Ø	3.0	50	100	1.0k	100m			T03	CØ
23	2N1544	1.2		#C	5.0	5.0 Ø	40	20	20	20m♦	2.0Ø	3.0	75	150	1.0kΔ	66m			T03	CØ
24	2N1544A	1.2		#C	5.0	5.0 Ø	40	20	20	20m♦	2.0Ø	3.0	75	150	3.0kΔ	66m			T03	CØ
25	2N1545	1.2		#C	5.0	5.0 Ø	60	30	30	20m♦	2.0Ø	3.0	75	150	1.0kΔ	66m			T03	CØ
26	2N1545A	1.2		#C	5.0	5.0 Ø	60	30	30	20m♦	2.0Ø	3.0	75	150	3.0kΔ	66m			T03	CØ
27	2N1546	1.2		#C	5.0	5.0 Ø	80	40	40	20m♦	2.0Ø	3.0	75	150	1.0kΔ	66m			T03	CØ
28	2N1546A	1.2		#C	5.0	5.0 Ø	80	40	40	20m♦	2.0Ø	3.0	75	150	3.0kΔ	66m			T03	CØ
29	2N1547	1.2		#C	5.0	5.0 Ø	100	50	50	20m♦	2.0Ø	3.0	75	150	1.0kΔ	66m			T03	CØ
30	2N1547A	1.2		#C	5.0	5.0 Ø	100	50	50	20m♦	2.0Ø	3.0	75	150	3.0kΔ	66m			T03	CØ
31	2N1548	1.2		#C	5.0	5.0 Ø	120	60	60	20m♦	2.0Ø	3.0	75	150	1.0kΔ	66m			T03	CØ
32	2N1549	1.2		#C	15	15 Ø	40	20	20	20m♦	2.0Ø	10	10	30	2.0kΔ	100m			T03	CØ
33	2N1549A	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	AΔ	T03	CØ
34	JAN2N1549A†	1.2	90 Ø	#J	15	5.0	40	20	20	3.0mØ	2.0Ø	5.0	15	40		100m	8.0u		T03	CØ
35	2N1550	1.2		#C	15	15 Ø	60	30	30	20m♦	2.0Ø	10	10	30	2.0kΔ	100m			T03	CØ
36	2N1550A	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	AΔ	T03	CØ
37	JAN2N1550A†	1.2	90 Ø	#J	15	5.0	60	30	30	3.0mØ	2.0Ø	5.0	15	40		100m	8.0u		T03	CØ
38	2N1551	1.2		#C	15	15 Ø	80	40	40	20m♦	2.0Ø	10	10	30	2.0kΔ	100m			T03	CØ
39	2N1551A	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	AΔ	T03	CØ
40	JAN2N1551A†	1.2	90 Ø	#J	15	5.0	80	40	40	3.0mØ	2.0Ø	5.0	15	40		100m	8.0u		T03	CØ
41	2N1552	1.2		#C	15	15 Ø	100	50	50	20m♦	2.0Ø	10	10	30	2.0kΔ	100m			T03	CØ
42	2N1552A	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	10	20	10k	100m	5.0uØ	AΔ	T03	CØ
43	JAN2N1552A†	1.2	90 Ø	#J	15	5.0	100	50	50	3.0mØ	2.0Ø	5.0	15	40		100m	8.0u		T03	CØ
44	2N1553	1.2		#C	15	15 Ø	40	20	20	20m♦	2.0Ø	10	30	60	1.0kΔ	50m			T03	CØ
45	2N1553A	1.2		#C	15	15 Ø	40	20	20	20m♦	2.0Ø	10	30	60	3.0kΔ	70m			T03	CØ
46	JAN2N1553A†	1.2	90 Ø	#J	15	5.0	50	20	20	3.0mØ	2.0Ø	5.0	30	90		70m	10uØ		T03	CØ
47	2N1554	1.2		#C	15	15 Ø	60	30	30	20m♦	2.0Ø	10	30	60	1.0kΔ	50m			T03	CØ
48	2N1554A	1.2		#C	15	15 Ø	60	30	30	20m♦	2.0Ø	10	30	60	3.0kΔ	70m			T03	CØ
49	JAN2N1554A†	1.2	90 Ø	#J	15	5.0	60	30	30	3.0mØ	2.0Ø	5.0	30	90		70m	10uØ		T03	CØ
50	2N1555	1.2		#C	15	15 Ø	80	40	40	20m♦	2.0Ø	10	30	60	1.0kΔ	50m			T03	CØ
51	2N1555A	1.2		#C	15	15 Ø	80	40	40	20m♦	2.0Ø	10	30	60	3.0kΔ	70m			T03	CØ
52	JAN2N1555A†	1.2	90 Ø	#J	15	5.0	80	40	40	3.0mØ	2.0Ø	5.0	30	90		70m	10uØ		T03	CØ
53	2N1556	1.2		#C	15	15 Ø	100	50	50	20m♦	2.0Ø	10	30	60	1.0kΔ	50m			T03	CØ
54	2N1556A	1.2		#C	15	15 Ø	100	50	50	20m♦	2.0Ø	10	30	60	3.0kΔ	70m			T03	CØ
55	JAN2N1556A†	1.2	90 Ø	#J	15	5.0	100	50	50	3.0mØ	2.0Ø	5.0	30	90		70m	10uØ		T03	CØ
56	2N1557	1.2		#C	15	15 Ø	40	20	20	20m♦	2.0Ø	10	50	100	1.0kΔ	40m			T03	CØ
57	2N1557A	1.2		#C	15	15 Ø	40	20	20	20m♦	2.0Ø	10	50	100	3.0kΔ	40m			T03	CØ
58	JAN2N1557A†	1.2	90 Ø	#J	15	5.0	50	20	20	3.0mØ	2.0Ø	10	50	100		50m	10uØ		T03	CØ
59	2N1558	1.2		#C	15	15 Ø	60	30	30	20m♦	2.0Ø	10	50	100	1.0kΔ	40m			T03	CØ
60	2N1558A	1.2		#C	15	15 Ø	60	30	30	20m♦	2.0Ø	10	50	100	3.0kΔ	40m			T03	CØ
61	JAN2N1558A†	1.2	90 Ø	#J	15	5.0	60	30	30	3.0mØ	2.0Ø	10	50	100		50m	10uØ		T03	CØ
62	2N1559	1.2		#C	15	15 Ø	80	40	40	20m♦	2.0Ø	10	50	100	1.0kΔ	40m			T03	CØ
63	2N1559A	1.2		#C	15	15 Ø	80	40	40	20m♦	2.0Ø	10	50	100	3.0kΔ	40m			T03	CØ
64	JAN2N1559A†	1.2	90 Ø	#J	15	5.0	80	40	40	3.0mØ	2.0Ø	10	50	100		50m	10uØ		T03	CØ
65	2N1560	1.2		#C	15	15 Ø	100	50	50	20m♦	2.0Ø	10	50	100	1.0kΔ	40m			T03	CØ
66	2N1560A	1.2		#C	15	15 Ø	100	50	50	20m♦	2.0Ø	10	50	100	3.0kΔ	40m			T03	CØ
67	JAN2N1560A†	1.2	90 Ø	#J	15	5.0	100	50	70	3.0mØ	2.0Ø	10	50	100		50m	10uØ		T03	CØ
68	2N1651†	1.2	100 Ø	♦J	25	2.5	60	1.5	60	5.0mØ	2.0Ø	10	35	140	1.5M†	250m	7.0u	DA	T041	CØ
69	JAN2N1651†	1.2	100 Ø	♦J	25		60	1.5	30	5.0m	2.0Ø	10	35	105		26m	10uØ		T041	CØ
70	2N1652†	1.2	100 Ø	♦J	25	2.5	100	1.5	100	5.0mØ	2.0Ø	10	35	140	1.5M†	250m	7.0u	DA	T041	CØ
71	JAN2N1652†	1.2	100 Ø	♦J	25		100	1.5	60	5.0m	2.0Ø	10	35	105		26m	10uØ		T041	CØ
72	2N1653†	1.2	100 Ø	♦J	25	2.5	120	1.5	120	5.0mØ	2.0Ø	10	35	140	1.5M†	250m	7.0u	DA	T041	CØ
73	JAN2N1653†	1.2	100 Ø	♦J	25		120	1.5	80	5.0m	2.0Ø	10	35	105		26m	10uØ		T041	CØ
74	2N1751	1.2		♦C	25	25 Ø	80	2.5	80	5.0m♦	1.5Ø	20	30	90	1.5M†Δ	25m		DA	T03	CØ
75	2N1970	1.2	93 Ø	#S	15 Ø	4.0	100	40	50	4.0m	2.0Ø	5.0	17	40	5.0kΔ			Δ	T036	CØ
76	2N2061A†	1.2	90 Ø	#C	5.0	3.0	20	10	15	2.0m♦	2.0Ø	2.0	20	60	5.0kΔ	200m	12ut☑		T03	CØ
77	2N2062A†	1.2	90 Ø	#C	5.0	3.0	20	10	15	2.0m♦	2.0Ø	2.0	50	140	1.0kΔ	140m	12ut☑		T03	CØ
78	2N2063A†	1.2	90 Ø	#C	5.0	3.0	40	20	20	2.0m♦	2.0Ø	2.0	20	60	5.0kΔ	200m	12ut☑		T03	CØ
79	2N2064A†	1.2	90 Ø	#C	5.0	3.0	40	20	20	2.0m♦	2.0Ø	2.0	50	140	1.0kΔ	140m	12ut☑		T03	CØ
80	2N2065A†	1.2	90 Ø	#C	5.0	3.0	80	30	40	5.0m♦	2.0Ø	2.0	20	60	5.0kΔ	200m	12ut☑		T03	CØ
81	2N2066A†	1.2	90 Ø	#C	5.0	3.0	80	30	40	5.0m♦	2.0Ø	2.0	50	140	1.0kΔ	140m	12ut☑		T03	CØ
82	2N2212	1.2 †	60 Ø	♦J	10	3.0	120	1.5	120	2.0mØ	2.0Ø	5.0	50	120	450k§Δ	200m			T041	CØ
83	2N2285	1.2	100 Ø	♦C	25	5.0	60 †	1.5†	30	5.0m	2.0Ø	10	35	140					T03	CØ
84	2N2286	1.2	100 Ø	♦C	25	5.0	100 †	1.5†	60	5.0m	2.0Ø	10	35	140					T03	CØ
85	2N2287	1.2	100 Ø	♦C	25	5.0	120 †	1.5†	80	5.0m	2.0Ø	10	35	140					T03	CØ
86	2N2445	1.2	90 Ø	#C	15	3.0	100	50	50	20m♦	2.0Ø	10	30	60	100k§Δ	100m			T041	CØ
87	2N2636†	1.2	100 Ø	♦C	25	2.5	100 †	1.5†	60	10m♦	2.0Ø	25	20	80		26m			T041	CØ
88	2N2637†	1.2	100 Ø	♦C	25	2.5	100 †	1.5†	60	10m♦	2.0Ø	25	20	80		26m			T041	CØ
89	2N2638†	1.2	100 Ø	♦C	25	2.5	100 †	1.5†	60	10m♦	2.0Ø	25	20	80		26m			T041	CØ
90	2N2691†	1.2	100 Ø	♦C	20	5.0	100 †	1.5†	80	5.0m♦	1.5Ø	20	30	100	60k§Δ	32m	700uØ		T041	CØ
91	2N3124	1.2	90 Ø	#C	15	5.0	40	20	30 Ø	20m	2.0Ø	10	50	100	2.5kΔ	50m			T041	
92	2N3125	1.2	90 Ø	#C	3.3	1.7	80	40	80 Ø	15m	2.0Ø	3.0	30	75	5.0kΔ	500m			T041	
93	2N3126	1.2	90 Ø	#C	15	3.0	100	12	75 Ø	3.0mØ	2.0Ø	10	10	30	6.0kΔ	100m			T041	
94	2N4242	1.2	106 Ø	♦J	10	3.0	80	40	70 Ø	2.0m	2.0Ø	5.0	40	80		75m			T03	CØ
95	2N4243	1.2	106 Ø	♦J	10	3.0	60	30	55 Ø	2.0m	2.0Ø	5.0	40	80		75m			T03	CØ
96	2N4244	1.2	106 Ø	♦J	10	3.0	40	20	40 Ø	2.0m	2.0Ø	5.0	40	80		75m			T03	CØ
97	2N4245	1.2	106 Ø	♦J	10	3.0	80	40	70 Ø	2.0m	2.0Ø	5.0	60	120		75m			T03	CØ
98	2N4246	1.2	106 Ø	♦J	10	3.0	60	30	55 Ø	2.0m	2.0Ø	5.0	60	120		75m			T03	CØ
99	2N4247	1.2	106 Ø	♦J	10	3.0	40	20	40 Ø	2.0m	2.0Ø	5.0	60	120		75m			T03	CØ
100	2N5156†	1.2	93 Ø	#J	10	2.0	100	60	60	4.0m	2.0Ø	5.0	25	60	150k§Δ	100m	20u		T03	CØ
101	3N49	1.2	94 Ø	#J	15 Ø	2.0	60	28	35	3.0m	2.0Ø	5.0	30	120	600kΔ	80m			MT70	GKØ
102	3N50	1.2	94 Ø	#J	15 Ø	2.0	80	28	50	3.0m	2.0Ø	5.0	20	80	300kΔ	80m			MT70	GKØ
103	3N51	1.2	94 Ø	#J	15 Ø	2.0	40	28	25	3.0m	2.0Ø	5.0	30	120	500kΔ	80m			MT70	GKØ
104	3N52	1.2	94 Ø	#J	15 Ø	2.0	60	28	40	3.0m	2.0Ø	5.0	20	80	300kΔ	80m			MT70	GKØ
105#	ADZ11	1.2 #	45 Ø	#J	15	2.0	50	30	40	8.0m	2.0Ø	1.2	40	120	80k†Δ	66m		AD	ZA4	Ø
106#	ADZ12	1.2 #	45 Ø	#J	15	2.0	80	50	60	8.0m	2.0Ø	1.2	40	120	100k†Δ	66m		AD	ZA4	Ø
107	CQT940A	1.2	90 Ø	#J	15	5.0	100	20	85 Ø		2.0Ø	10	20			90m		A	T03	CØ
108	CQT940B	1.2	90 Ø	#J	15	5.0	80	60	60 Ø		2.0Ø	7.0	30			90m		A	T03	CØ
109	CQT1110	1.2	90 Ø	#J	5.0		40	10	30	2.0mØ	2.0Ø	1.0	50	250	250k§	200m			T03	A
110	CQT1110A	1.2	90 Ø	#J	5.0		40	10	30	2.0mØ	2.0Ø	1.0	50	250 *	250k§	200m			T03	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE MX P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	CQT1111	1.2	90 Ø	#J	5.0		60	10	50	2.0mØ	2.0Ø	1.0	50	250	250k§	200m			TO3	A
2	CQT1111A	1.2	90 Ø	#J	5.0		60	10	50	2.0mØ	2.0Ø	1.0	50	250 *	250k§	200m			TO3	A
3	CQT1112	1.2	90 Ø	#J	10		65	65	65	2.0mØ	2.0Ø	1.0	75	300	250k§	100m			TO3	A
4	CTP1500	1.2	90 Ø	#J	15	5.0	100	30	80 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO3	CØ
5	CTP1504	1.2	90 Ø	#J	15	5.0	60	30	50 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO3	CØ
6	CTP1508	1.2	90 Ø	#J	15	5.0	40	30	40 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO3	CØ
7	CTP3500	1.2	90 Ø	#J	15	5.0	100	30	80 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO41	CØ
8	CTP3503	1.2	90 Ø	#J	15	5.0	80	30	70 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO41	CØ
9	CTP3504	1.2	90 Ø	#J	15	5.0	60	30	50 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO41	CØ
10	CTP3508	1.2	90 Ø	#J	15	5.0	40	30	40 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO41	CØ
11	CTP3544	1.2	90 Ø	#J	25	5.0	60	30	40 Ø	15m	2.0Ø	25	25	125	5.0k	40m		AΔ	TO41	CØ
12	CTP3545	1.2	90 Ø	#J	25	5.0	80	30	60 Ø	15m	2.0Ø	25	25	125	5.0k	40m		AΔ	TO41	CØ
13	CTP3552	1.2	90 Ø	#J	25	5.0	40	30	30 Ø	10m	2.0Ø	25	25	75	5.0k	40m		AΔ	TO41	CØ
14	CTP3553	1.2	90 Ø	#J	25	5.0	100	30	75 Ø	10m	2.0Ø	25	25	75	5.0k	40m		AΔ	TO41	CØ
15	DTG110	1.2	7.5 ▼	♦J	7.0	1.0		20	65	200u	2.0Ø	1.0	74	250 *	200k§Δ	250m		Δ	Y204a	CØ
16	DTG110B	1.2 †	75 Ø	♦J	15	5.0		2.0	40	10m*	2.0Ø	1.0	65	300 *	500k§Δ	100m			Y204a	CØ
17	DTG1010†	1.2	106 Ø	♦J	15	3.0		1.0	325 #	15m#					450k§	160m	6.0u	A	TO3	CØ
18	DTG1110†	1.2	106 Ø	♦J	15	3.0		1.0	200 #	15m#					450k§	160m	6.0u	A	TO3	CØ
19	DTG1200	1.2	106 Ø	♦J	15	3.0		1.0	120 Ø	100mΔ	.50Ø	8.0	22			41m		A	TO3	CØ
20	MP110	1.2	106 Ø	♦J	7.0	2.0			65 #	2.0mØ	2.0Ø	1.0	74	250	320k§			A	TO3	CØ
21	MP110B	1.2	106 Ø	♦J	25	5.0	90	2.0	40	200uØ	2.0Ø	1.0	65	300 *	500k§Δ	100m		ADEΔ	TO3	CØ
22	MP525	1.2	106	♦J	10				60	200uØ	2.0Ø	3.0	30	200 *					TO3	CØ
23	MP2000A†	1.2	106 Ø	♦J	25	5.0		2.0	30	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	TO3	CØ
24	MP2100A†	1.2	106 Ø	♦J	25	5.0		2.0	60	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	TO3	CØ
25	MP2200A†	1.2	106 Ø	♦J	25	5.0		2.0	80	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	TO3	CØ
26	MP2300A†	1.2	106 Ø	♦J	25	5.0		2.0	100	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	TO3	CØ
27	MP2400A†	1.2	106 Ø	♦J	25	5.0		2.0	120	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	TO3	CØ
28	TI3031	1.2 §	2.0	#C	7.0	3.0	120	20	65	1.0mØ	2.0Ø	3.0	40	250 #				A	TO3	CØ
29	2N1529A	1.3		#J	5.0	5.0 Ø	40	20	30 Ø	20m	2.0Ø	3.0	20	40	5.0kΔ	.50			TO3	CØ
30	2N1530A	1.3		#J	5.0	5.0 Ø	60	30	45 Ø	20m	2.0Ø	3.0	20	40	5.0kΔ	.50			TO3	CØ
31	2N1531A	1.3		#J	5.0	5.0 Ø	80	40	60 Ø	20m	2.0Ø	3.0	20	40	5.0kΔ	.50			TO3	CØ
32	2N1532A	1.3		#J	5.0	5.0 Ø	100	50	75 Ø	20m	2.0Ø	3.0	20	40	5.0kΔ	.50			TO3	CØ
33	2N1534A	1.3		#J	5.0	5.0 Ø	40	20	30 Ø	20m	2.0Ø	3.0	35	70	5.0kΔ	.40			TO3	CØ
34	2N1535A	1.3		#J	5.0	5.0 Ø	60	30	45 Ø	20m	2.0Ø	3.0	35	70	5.0kΔ	.40			TO3	CØ
35	2N1536A	1.3		#J	5.0	5.0 Ø	80	40	60 Ø	20m	2.0Ø	3.0	35	70	5.0kΔ	.40			TO3	CØ
36	2N1537A	1.3		#J	5.0	5.0 Ø	100	50	75 Ø	20m	2.0Ø	3.0	35	70	5.0kΔ	.40			TO3	CØ
37	2N2423	1.3		#J	5.0	5.0	100	30	80	5.0m	2.0Ø	2.0	20	100				A	TO3	
38	JAN2N5156†	1.3	90 Ø	#A	10		100	60	60 Ø	4.0m	2.0Ø	500m	60	250		100m	20u		TO3	CØ
39#	2SB206	1.3	80 Ø	#J	30		80		60 Ø	5.0m	1.5Ø	15	50	100 Ø				A	MD18	
40#	2SB207	1.3	80 Ø	#J	20		100		75 Ø	5.0m	1.5Ø	15	20	40 Ø				A	MD18	
41#	2SB207A	1.3	80 Ø	#J	20		140		85 Ø	5.0m	1.5Ø	15	20	40 Ø				A	MD18	
42#	2SB208	1.3	80 Ø	#J	30		100		75 Ø	5.0m	1.5Ø	15	50	100 Ø				A	MD18	
43#	2SB208A	1.3	80 Ø	#J	30		140		85 Ø	5.0m	1.5Ø	15	50	100 Ø				A	MD18	
44#	2SB209	1.3	80 Ø	#J	20		40	40	30 Ø	5.0m	1.5Ø	15	20	40 Ø	2.5k	30m		A	MD18	
45#	2SB210	1.3	80 Ø	#J	30		40	40	30 Ø	5.0m	1.5Ø	15	50	100 Ø	2.5k	20m		A	MD18	
46#	2SB211	1.3	80 Ø	#J	20		80	40	60 Ø	5.0m	1.5Ø	15	20	40 Ø	2.5k	30m		A	MD18	
47#	2SB212	1.3	80 Ø	#J	30		80	40	60 Ø	5.0m	1.5Ø	15	50	100 Ø	2.5k	20m		A	MD18	
48#	2SB213	1.3	80 Ø	#J	20		100	40	75 Ø	5.0m	1.5Ø	15	20	40 Ø	2.5k	30m		A	MD18	
49#	2SB213A	1.3	80 Ø	#J	20		140	40	85 Ø	5.0m	1.5Ø	15	20	40 Ø	2.5k	30m		A	MD18	
50#	2SB214	1.3	80 Ø	#J	30		100	40	75 Ø	5.0m	1.5Ø	15	50	100 Ø	2.5k	20m		A	MD18	
51#	2SB214A	1.3	80 Ø	#J	30		140	40	85 Ø	5.0m	1.5Ø	15	50	100 Ø	2.5k	20m		A	MD18	
52#	2SB430	1.3 Ø	80	#C	20		70	1.0		20m	0.0	20	10		10kΔ			D	TO36	
53	CQT1075	1.3	90	#J	25		140	140	70	2.0mØ	2.0Ø	25	10		200k§Δ			A	TO3	CØ
54	CQT1076	1.3	90	#J	25		115	115	60	2.0mØ	2.0Ø	25	15		200k§Δ			A	TO3	CØ
55	CQT1077	1.3	90	#J	15		100	100	45	2.0mØ	2.0Ø	15	10		200k§Δ			A	TO3	CØ
56	2N514	1.4	80	#J	25	5.0	40 †	30†	40 #	8.0mØ†	1.5Ø	25	12 Ø		7.0k	25m		AΔ	MD4	CØ
57	2N514A	1.4	80	#J	25	5.0	60 †	30†	60 #	8.0mØ†	1.5Ø	25	12 Ø		7.0k	25m		AΔ	MD4	CØ
58	2N514B	1.4	80	#J	25	5.0	80 †	30†	80 #	8.0mØ†	1.5Ø	25	12 Ø		7.0k	25m		AΔ	MD4	CØ
59	2N5435†	1.4	120 Ø	♦J	60	12	80	2.5	60	10m#	2.0Ø	25	20	60			12u		TO3	CØ
60	2N5436†	1.4	120 Ø	♦J	60	12	110	2.5	90	10m#	2.0Ø	25	20	60			12u		TO3	CØ
61	2N5437†	1.4	120 Ø	♦J	60	12	140	2.5	120	10m#	2.0Ø	25	20	60			12u		TO3	CØ
62	2N5438†	1.4	120 Ø	♦J	60	12	80	2.5	60	10m#	2.0Ø	25	40	120			12u		TO3	CØ
63	2N5439†	1.4	120 Ø	♦J	60	12	110	2.5	90	10m#	2.0Ø	25	40	120			12u		TO3	CØ
64	2N5440†	1.4	120 Ø	♦J	60	12	140	2.5	120	10m#	2.0Ø	25	40	120			12u		TO3	CØ
65	2N5692†	1.4	120 Ø	♦J	40	12	50 †	2.5†	30	10m#	2.0Ø	25	20	65			20u			
66	2N5693†	1.4	120 Ø	♦J	40	12	80 †	2.5†	60	10m#	2.0Ø	25	20	65			20u			
67	2N5694†	1.4	120 Ø	♦J	40	12	100 †	2.5†	80	10m#	2.0Ø	25	20	65			20u			
68	2N5695†	1.4	120 Ø	♦J	40	12	120 †	2.5†	100	10m#	2.0Ø	25	20	65			20u			
69	2N5696†	1.4	120 Ø	♦J	40	12	140 †	2.5†	120	10m#	2.0Ø	25	20	65			20u			
70#	2SB410	1.5	40 Ø	#J	15		135	5.0	135 §	250u	1.5Ø	1.0	60 Ø		3.0M§			DΔ	TO3	
71#	2SB411	1.5	40 Ø	#J	11		200	5.0	200 §	250u	1.5Ø	1.0	60 Ø		2.5M§			DΔ	TO3	
72	2N5155†	1.6	60 Ø	♦J	15	5.0	140	1.5	120	10m#	2.0Ø	8.0	25	100		36m	18uØ		MD6k	CØ
73#	ADY26†	1.6	100 Ø	#J	25	3.0	80	40	60	4.0m	0.0	25 Δ	15 #	25 Ø			25uØ	A	ZA4	Ø
74	SDT1960	1.6	140		65	10	80	30	60	5.0m	2.0Ø	65	20		340k	7.0m	10u		MT23	
75	SDT1961	1.6	140		65	10	60	30	45	5.0m	2.0Ø	65	20		340k	7.0m	10u		MT23	
76	SDT1962	1.6	140		65	10	40	20	30	5.0m	2.0Ø	65	20		340k	7.0m	10u		MT23	
77	2N2733†	1.7 §	66 Ø	♦C	65	10	80	30	60	5.0mØ	2.0Ø	25	30	120 #			18uØ		MT23	BØ
78	2N2734†	1.7 §	66 Ø	♦C	65	10	60	30	45	5.0mØ	2.0Ø	25	30	120 #			18uØ		MT23	BØ
79	2N2735†	1.7 §	66 Ø	♦C	65	10	40	20	30	5.0mØ	2.0Ø	25	30	120 #			18uØ		MT23	BØ
80	2N2736	1.7 §	66 Ø	♦C	65	10	80	30	60	5.0mØ	2.0Ø	25	30	120 #			18uØ		MT23	BØ
81	2N2737	1.7 §	66 Ø	♦C	65	10	60	30	45	5.0mØ	2.0Ø	25	30	120 #			18uØ		MT23	BØ
82	2N2738	1.7 §	66 Ø	♦C	65	10	40	20	30	5.0mØ	2.0Ø	25	30	120 #			18uØ		MT23	BØ
83#	JAN2N174A	2.0	75 Ø	#S	14 Ø	4.0	80	60	40	15m	2.0Ø	1.2	40	80	100kt Δ	60m			MT56	Ø
84	2N456B	2.0	150 Ø	#J	7.0	3.0	40	30	30	2.0m♦	1.5Ø	5.0	30	90	200k§Δ	100m			TO3	CØ
85	JAN2N456B†	2.0	150 Ø	#J	7.0		40	30	30	7.0m	1.5Ø	5.0	30	120			20uØØ		TO3	CØ
86	2N457B	2.0	150 Ø	#J	7.0	3.0	60	30	40	2.0m♦	1.5Ø	5.0	30	90	200k§Δ	100m			TO3	CØ
87	JAN2N457B†	2.0	150 Ø	#J	7.0		60	35	40	7.0m	1.5Ø	5.0	30	120			20uØØ		TO3	CØ
88	2N458B	2.0	150 Ø	#J	7.0	3.0	80	30	45	2.0m♦	1.5Ø	5.0	30	90	200k§Δ	100m			TO3	CØ
89	JAN2N458B†	2.0	150 Ø	#J	7.0		80	40	45	7.0m	1.5Ø	5.0	30	120			20uØØ		TO3	CØ
90	2N511	2.0		#J	25	5.0	40	30	20	5.0m♦	2.0Ø	10	20	60	2.0kΔ	50m			MD4	CØ
91	2N511A	2.0		#J	25	5.0	60	30	30	5.0m♦	2.0Ø	10	20	60	2.0kΔ	50m			MD4	CØ
92	2N511B	2.0		#J	25	5.0	80	30	40	5.0m♦	2.0Ø	10	20	60	2.0kΔ	64m			MD4	CØ
93	2N512	2.0		#J	25	5.0	40	30	20	5.0m♦	2.0Ø	15	20	60	2.0kΔ	500m			MD4	CØ
94	2N512A	2.0		#J	25	5.0	60	30	30	5.0m♦	2.0Ø	15	20	60	2.0kΔ	50m			MD4	CØ
95	2N512B	2.0		#J	25	5.0	80	30	40	5.0m♦	2.0Ø	15	20	60	2.0kΔ	64m			MD4	CØ
96	2N513	2.0		#J	25	5.0	40	30	20	5.0m♦	2.0Ø	20	20	60	2.0kΔ	500m			MD4	CØ
97	2N513A	2.0		#J	25	5.0	60	30	30	5.0m♦	2.0Ø	20	20	60	2.0kΔ	50m			MD4	CØ
98	2N513B	2.0		#J	25	5.0	80	30	40	5.0m♦	2.0Ø	20	20	60	2.0kΔ	64m			MD4	CØ
99	2N1021A	2.0	150 Ø	#J	7.0	3.0	100	30	50	2.0mØ	1.5Ø	5.0	30	90	200kΔ	1.0			TO3	CØ
100	JAN2N1021A†	2.0	150 Ø	#J	7.0		100	50	50	7.0m	1.5Ø	5.0	30	120			20uØØ		TO3	CØ
101	2N1022A	2.0	150 Ø	#J	7.0	3.0	120	30	55	2.0mØ	1.5Ø	5.0	30	90	200kΔ	1.0			TO3	CØ
102	JAN2N1022A†	2.0	150 Ø	#J	7.0		120	60	55	7.0m	1.5Ø	5.0	30	120			20uØØ		TO3	CØ
103	JAN2N1358	2.0	150 Ø	#S	15 Ø	4.0	80	40	40	4.0m	2.0Ø	5.0	25	50	5.0kΔ	60m			TO36	CØ
104	2N1358A†	2.0 §	50 Ø	#C	15	4.0	100	60	60	4.0m	2.0Ø	5.0	25	50	5.0k	60m	30u		TO36	AØ
105	2N1907	2.0 §	60 Ø	#J	20	3.0	100	1.5	40	10m	1.5Ø	15	20		20M§	70m		ADΔ	TO3	CØ
106	2N1908	2.0 §	60 Ø	#J	20	3.0	130	1.5	50	10m	1.5Ø	15	20		20M§	70m		ADΔ	TO3	CØ
107	2N1980	2.0	170 Ø	♦J	15		50	20	30	6.0m	2.0Ø	5.0	50	100	3.0kΔ	100m		A	TO36	CØ
108	2N1981	2.0	170 Ø	♦J	15		70	20	40	6.0m	2.0Ø	5.0	50	100	3.0kΔ	100m		A	TO36	CØ
109	2N1982	2.0	170 Ø	♦J	15		90	20	50	6.0m	2.0Ø	5.0	50	100	3.0kΔ	100m		A	TO36	CØ
110	2N2075	2.0	170 Ø	♦C	15	15 Ø	80	40	65	200uØ♦	2.0	5.0	20	40	5.0kΔ	58m			MT85	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	2N2075A	2.0	170 Ø	♦J	15		80	40	65	4.0m	2.0	5.0	20	40	10k	60m	9.0u		TO36	CØ
2	2N2076	2.0	170 Ø	♦C	15	15 Ø	70	35	55	200uØ♦	2.0	5.0	20	40	5.0kΔ	58m			MT85	CØ
3	2N2076A	2.0	170 Ø	♦J	15		70	35	55	4.0m	2.0	5.0	20	40	10k	60m	9.0u		TO36	CØ
4	2N2077	2.0	170 Ø	♦C	15	15 Ø	50	25	45	200uØ♦	2.0	5.0	20	40	5.0kΔ	75m			MT85	CØ
5	2N2077A	2.0	170 Ø	♦J	15		50	25	45	4.0m	2.0	5.0	20	40	10k	60m	6.0u	A	TO36	CØ
6	2N2078	2.0	170 Ø	♦C	15	15 Ø	40	20	25	200uØ♦	2.0	5.0	20	40	5.0kΔ	75m			MT85	CØ
7	2N2078A	2.0	170 Ø	♦J	15		40	20	25	4.0m	2.0	5.0	20	40	10k	60m	9.0u		TO36	CØ
8	2N2079	2.0	170 Ø	♦C	15	15 Ø	80	40	65	200uØ♦	2.0	5.0	35	70	5.0kΔ	58m			MT85	CØ
9	2N2079A	2.0	170 Ø	♦J	15		80	40	65	4.0m	2.0	5.0	35	70	10k	60m	6.0u		TO36	CØ
10	JAN2N2079A†	2.0	150 Ø	#S	15 Ø	4.0	80	40	65	4.0m	2.0Ø	5.0	35	70	5.0kΔ	60m			TO36	CØ
11	2N2080	2.0	170 Ø	♦C	15	15 Ø	70	35	55	200uØ♦	2.0	5.0	35	70	5.0kΔ	58m			MT85	CØ
12	2N2080A	2.0	170 Ø	♦J	15		70	35	55	4.0m	2.0	5.0	35	70	10k	60m	6.0u		TO36	CØ
13	2N2081	2.0	170 Ø	♦C	15	15 Ø	50	25	45	200uØ♦	2.0	5.0	35	70	5.0kΔ	75m			MT85	CØ
14	2N2081A	2.0	170 Ø	♦J	15		50	25	45	4.0m	2.0	5.0	35	70	10k	80m	6.0u		TO36	CØ
15	2N2082	2.0	170 Ø	♦C	15	15 Ø	40	20	25	200uØ♦	2.0	5.0	35	70	5.0kΔ	75m			MT85	CØ
16	2N2082A	2.0	170 Ø	♦J	15		40	20	25	4.0m	2.0	5.0	35	70	10k	80m	6.0u		TO36	CØ
17	2N2152	2.0	170 Ø	♦J	30	30 Ø	45	25	30	4.0m	2.0	5.0	50	100	2.0kΔ	20m			MT85	TØ
18	2N2152A	2.0	170 Ø	♦J	30	30 Ø	45	25	30	4.0m	2.0	5.0	50	100	2.0kΔ	2.0			MT85	TØ
19	2N2153	2.0	170 Ø	♦J	30	30 Ø	60	30	45	4.0m	2.0	5.0	50	100	2.0kΔ	20m			MT85	TØ
20	2N2153A	2.0	170 Ø	♦J	30	30 Ø	60	30	45	4.0m	2.0	5.0	50	100	2.0kΔ	2.0			MT85	TØ
21	2N2154	2.0	170 Ø	♦J	30	30 Ø	75	40	60	4.0m	2.0	5.0	50	100	2.0kΔ	20m			MT85	TØ
22	2N2154A	2.0	170 Ø	♦J	30	30 Ø	75	40	60	4.0m	2.0	5.0	50	100	2.0kΔ	2.0			MT85	TØ
23	2N2155	2.0	170 Ø	♦J	30	30 Ø	90	45	75	4.0m	2.0	5.0	50	100	2.0kΔ	20m			MT85	TØ
24	2N2155A	2.0	170 Ø	♦J	30	30 Ø	90	45	75	4.0m	2.0	5.0	50	100	2.0kΔ	2.0			MT85	TØ
25	2N2156	2.0	170 Ø	♦J	30	30 Ø	45	25	30	4.0m	2.0	5.0	80	160	2.0kΔ	20m			MT85	TØ
26	2N2156A	2.0	170 Ø	♦J	30	30 Ø	45	25	30	4.0m	2.0	5.0	80	160	2.0kΔ	2.0			MT85	TØ
27	2N2157	2.0	170 Ø	♦J	30	30 Ø	60	30	45	4.0m	2.0	5.0	80	160	2.0kΔ	20m			MT85	TØ
28	2N2157A	2.0	170 Ø	♦J	30	30 Ø	60	30	45	4.0m	2.0	5.0	80	160	2.0kΔ	2.0			MT85	TØ
29	2N2158	2.0	170 Ø	♦J	30	30 Ø	75	40	60	4.0m	2.0	5.0	80	160	2.0kΔ	20m			MT85	TØ
30	2N2158A	2.0	170 Ø	♦J	30	30 Ø	75	40	60	4.0m	2.0	5.0	80	160	2.0kΔ	2.0			MT85	TØ
31	2N2159	2.0	170 Ø	♦J	30	30 Ø	90	45	75	4.0m	2.0	5.0	80	160	2.0kΔ	20m			MT85	TØ
32	2N2357†	2.0	170 Ø	♦C	50	5.0	60 †	1.5†	30	50m♦	1.5Ø	20	30	90		18m	15uØ☑		TO41	CØ
33	2N2358†	2.0	170 Ø	♦C	50	5.0	100 †	1.5†	60	50m♦	1.5Ø	20	30	90		18m	15uØ☑		TO41	CØ
34	2N2359†	2.0	170 Ø	♦C	50	5.0	120 †	1.5†	80	50m♦	1.5Ø	20	30	90		18m	15uØ☑		TO41	CØ
35	2N2490†	2.0	170 Ø	♦C	12	4.0	70 †	40†	50 ☑	200uØ♦	2.0Ø	5.0	20	40	5.0kΔ	58m	25uØ☑		TO36	CØ
36	2N2491†	2.0	170 Ø	♦C	12	4.0	60 †	30†	40 ☑	200uØ♦	2.0Ø	5.0	35	70	5.0kΔ	58m	25uØ☑		TO36	CØ
37	2N2492	2.0	170 Ø	♦C	12	4.0	80 †	60†	65 ☑	200uØ♦	2.0Ø	5.0	25	50	5.0kΔ	50m	25uØ☑		TO36	CØ
38	2N2493	2.0	170 Ø	♦C	12	4.0	100 †	80†	75 ☑	200uØ♦	2.0Ø	5.0	25	50	5.0kΔ	41m	25uØ☑		TO36	CØ
39	2N2691A†	2.0	170 Ø	♦C	20	5.0	120	5.0	80	5.0m	1.5Ø	20	50	100	600k§Δ	30m	700u		TO41	CØ
40	2N2728†	2.0	170 Ø	♦C	50	10	15	15	5.0	10m#	2.0Ø	20	40	130	3.0kΔ	2.0m	25u		TO36	CØ
41	2N2730†	2.0 §	80 Ø	♦C	65	10	80	30	60	5.0m♦	2.0Ø	25	30	120 #			18u☑		TO36	CØ
42	2N2731†	2.0 §	80 Ø	♦C	65	10	60	30	45	5.0m♦	2.0Ø	25	30	120 #			18u☑		TO36	CØ
43	2N2732†	2.0 §	80 Ø	♦C	65	10	40	20	30	5.0m♦	2.0Ø	25	30	120 #			18u☑		TO36	CØ
44	2N3146	2.0	150 Ø	#C	15	3.0	150	60	65 Ø	10m	1.5Ø	5.0	30	90	200k§Δ	80m		A	TO3	Ø
45	2N3147	2.0	150 Ø	#C	15	3.0	180	80	75 Ø	10m	1.5Ø	5.0	30	90	200k§Δ	80m		A	TO3	Ø
46	2N3311	2.0	170 Ø	♦J	5.0	5.0	30	20	20	5.0m	2.0Ø	3.0	60	120	1.0kΔ			A	TO36	CØ
47	2N3312	2.0	170 Ø	♦J	5.0	5.0	45	25	30	5.0m	2.0Ø	3.0	60	120	1.0kΔ			A	TO36	CØ
48	2N3313	2.0	170 Ø	♦J	5.0	5.0	60	30	40	5.0m	2.0Ø	3.0	60	120	1.0kΔ			A	TO36	CØ
49	2N3314	2.0	170 Ø	♦J	5.0	5.0	30	20	20	5.0m	2.0Ø	3.0	100	200	1.0kΔ			A	TO36	CØ
50	2N3315	2.0	170 Ø	♦J	5.0	5.0	45	25	30	5.0m	2.0Ø	3.0	100	200	1.0kΔ			A	TO36	CØ
51	2N3316	2.0	170 Ø	♦J	5.0	5.0	60	30	40	5.0m	2.0Ø	3.0	100	200	1.0kΔ			A	TO36	CØ
52	2N4048†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO36	CØ
53	2N4049†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO36	CØ
54	2N4050†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO36	CØ
55	2N4051†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO36	CØ
56	2N4052†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO36	CØ
57	2N4053†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO36	CØ
58	2N4276†	2.0	170 Ø	♦J	60	10	30 †	20†	20	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
59	2N4277†	2.0	170 Ø	♦J	60	10	30 †	20†	20	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
60	2N4278†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
61	2N4279†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
62	2N4280†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
63	2N4281†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
64	2N4282†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
65	2N4283†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
66#	2SB407	2.0	30 Ø	#J	7.0		30	10	30 §	500u	1.5Ø	1.0	80 Ø		350k§			A	TO3	
67	HEPG6002-RT	2.0	170 Ø	♦J	65		40	20	30	4.0m	2.0	5.0	50	100	2.7k	20m			TO36	
68	MP500	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
69	MP500A	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
70	MP501	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
71	MP501A	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
72	MP502	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
73	MP502A	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
74	MP504	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
75	MP504A	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
76	MP505	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
77	MP505A	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
78	MP506	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
79	MP506A	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
80#	PT6	2.0	6.0 ØØ	#J	2.0 #		32	10	20	200u	1.0Ø	50m	74	300	1.5M§			A	MD6p	AØ
81	SDT1860	2.0	170		65	10	80	30	60	5.0m	2.0Ø	65	20		340k§	7.0m	10u		TO36	
82	SDT1861	2.0	170		65	10	60	30	45	5.0m	2.0Ø	65	20		340k	7.0m	10u		TO36	
83	SDT1862	2.0	170		65	10	40	20	30	5.0m	2.0Ø	65	20		340k	7.0m	10u		TO36	
84	2N4078	2.2 #	7.5 Ø	#J	1.0		32	10	20	20uØ	0.0	500m	75	300	1.0M§Δ	400m			MD6	AØ
85	2N574	2.5	187 Ø	#J	10	2.0	60	28	55	7.0m	2.0Ø	10	9.0	22				Δ	MT7	FØ
86	JAN2N574	2.5	187 Ø	#J	10		60	28	55	7.0m	2.0Ø	10	9.0	22		20m			MT7	
87	2N574A	2.5	187 Ø	#J	10	2.0	80	28	60	20m	2.0Ø	10	9.0	22				Δ	MT7	FØ
88	2N575	2.5	187 Ø	#J	25	3.7	60	28	50	7.0m	2.0Ø	10	19	42				Δ	MT7	FØ
89	JAN2N575	2.5	187 Ø	#J	25		60	28	50	7.0m	2.0Ø	100m	19	42		20m			MT7	
90	2N575A	2.5	187 Ø	#J	25	3.7	80	28	55	20m	2.0Ø	10	19	42				Δ	MT7	FØ
91	JAN2N575A	2.5	187 Ø	#J	25		80	28	55	20m	2.0Ø	10	19	42		20m			MT7	
92	2N1157	2.5	187 Ø	#J	40	6.0	60	28	60	7.0m	2.0Ø	10	38	84	75k§Δ			Δ	MT7	FØ
93	2N1157A	2.5	187 Ø	#J	40	6.0	80	28	80	20m	2.0Ø	10	38	84	75k§Δ			Δ	MT7	FØ
94	JAN2N1157A	2.5	187 Ø	#J	40		80	28	50	20m	2.0Ø	10	38	84		20m			MT7	
95#	AD139	2.5	13	#J	3.0	200m	32	10	32	25uØ	0.0	1.0 Δ	33	110	10k			A	MD11	
96	DA3F3	2.5	187 Ø	#J		2.5	60	65	35		2.0Ø	10	25				12u		MT7	
97	MP800	3.0	250 Ø	♦J	150			20	60	12mØ	2.0Ø	150	15						X71	A
98	MP801	3.0	250 Ø	♦J	150			20	45	12mØ	2.0Ø	150	15						X71	A

9. GERMANIUM NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT EX MP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	2N95		2.5	ØA	1.5		25												X4	FØ
2	2N142/13		4.0		.80		60	30	30	2.0m	4.0	.25	11			6.0			TO13	FØ
3#	2SD170		600mØ	#J	500m		25	6.0	18	5.0mΔ	1.0Ø	150m	70	300				A	TO1	A
4#	2SD170A		600mØ	#J	500m		32	12	25	5.0mΔ	1.0Ø	150m	70	300				A	TO1	A
5#	AC181K		2.5 Ø	#J	1.0		32	10	24 §	20uØ	1.0Ø	600m	50		1.0M§Δ			*	X9b	
6#	AC194	2.5mØ	1.0 #	#C	1.0		25	10	25 Ø	25uØ		400mΔ	200 Ø		5.0M			A	TO1	
7#	AC194K	2.5mØ	1.0 #	#C	1.0		25	10	25 Ø	25uØ		400mΔ	200 Ø		5.0M			A	TO1	
8#	2SD367	3.0m	150m	#J	500m#		25	6.0		20u	.50	150mΔ	46	334	30k			A	TO1	F
9#	2SD352	10m	650m	#J	1.0		32	10		25u	0.0	300m	83	273				A	TO1	F
10	2N4105	25m	1.6 Ø	#S	1.0		25	10		25uØ	10	5.0mΔ	70	350					TO1	A
11	2N102/13	80m	1.0	ØJ	1.5		30	15	30	2.0m	1.5Ø	500m	11			2.0		A	TO13	FØ
12	2N144/13	80m	1.0	ØJ	800m		60	30	60	6.0m	4.5Ø	250m	11			6.0		A	TO13	FØ
13	JAN2N326	116m	7.0 Ø	#J	2.0		35	15	35 Ø	500u	1.0Ø	1.0	15	60	150k†Δ	1.2			TO3	CØ
14	2N326	125mØ	7.0 Ø	#J	2.0		35		35	300u	1.0Ø	1.0	15	60	150k†Δ	1.2		A	MD9	
15▼#	2SC831	153m	23 Ø	§J	2.0		50	4.0	25		10Ø	1.0	15	200 #	300M§			PE	TO60	A
16#	AD161	222m	4.0 Ø§	#J	1.0	100m	32	10	20	500u	1.0Ø	500m	80	320	3.0M§			A	MD17c	CØ
17	2N1218	270m	20 Ø	#C	3.0		45	15	45 §	3.0m♦	1.5Ø	1.0	30	120	7.0kΔ	1.0			TO3	CØ
18	2N1292	333mØ	25	#J	3.0		35	15	30	1.0m	2.0Ø	500m	30			1.0		AΔ	TO3	CØ
19	2N1294	333mØ	25	#J	3.0		60	15	45	2.0m	2.0Ø	500m	30			1.0		AΔ	TO3	CØ
20	2N1296	333mØ	25	#J	3.0		80	15	60	3.0m	2.0Ø	500m	30			1.0		AΔ	TO3	CØ
21	2N1298	333mØ	25	#J	3.0		100	15	80	4.0m	2.0Ø	500m	30			1.0		AΔ	TO3	CØ
22	2N1321	333mØ	25	#J	3.0		35	15	30	1.0m	2.0Ø	500m	30			1.0		AΔ	TO10	FØ
23	2N1323	333mØ	25	#J	3.0		60	15	45	2.0m	2.0Ø	500m	30			1.0		AΔ	TO10	FØ
24	2N1325	333mØ	25	#J	3.0		80	15	60	3.0m	2.0Ø	500m	30			1.0		AΔ	TO10	FØ
25	2N1327	333mØ	25	#J	3.0		100	15	80	4.0m	2.0Ø	500m	30			1.0		AΔ	TO10	FØ
26	2N1329	333mØ	25	#J	3.0		35	15	30	1.0m	2.0Ø	500m	30			1.0		AΔ	TO13	FØ
27	2N1330	333mØ	25	#J	3.0		60	15	45	2.0m	2.0Ø	500m	30			1.0		AΔ	TO13	FØ
28	2N1332	333mØ	25	#J	3.0		80	15	60	3.0m	2.0Ø	500m	30			1.0		AΔ	TO13	FØ
29	2N1334	333mØ	25	#J	3.0		100	15	80	4.0m	2.0Ø	500m	30			1.0		AΔ	TO13	FØ
30#	PT4	2.0	4.0 Ø§	#J	2.0 #		32	10	20	500u	1.0	50m	74	300	3.0M§			A	MD6p	AØ
31	2N4077	2.2 #	7.5 Ø	#J	1.0		32	10	20	25uØ	0.0	500m	75	300	1.0M§Δ	600m			MD6	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #/Y200 s/a TO200 Ser.	LEAD DE
1#	2SA473		10 Ø	$J	3.0		30	5.0	25	10uØ	1.0Ø	500m	40	400	200M§			D	X75	A
2#	2SA483		20 Ø	$J	1.0	1.0 Ø	150	5.0	150	100uØ	10Ø	100m	30	250	9.0M§			DM	TO66	C
3#	2SA489		30 Ø	$J	4.0		70	5.0	60	30uØ	5.0Ø	500m	40	240	5.0M§			ED	X75	A
4#	2SA565		350 Ø		500m		50	4.0	50	500u	3.0Ø	10	40	200					TO1	
5#	2SA566		10 Ø		.70		120	4.0	100		4.0Ø	50	35	200	200M§			PE	TO66	
6#	2SA597		6.0	§J	1.0		50	4.0	40	1.0u	3.0Ø	150m	10	250	400k§			PE	TO39	A
7#	2SA656		50	$J	7.0		130	5.0	110	1.0mØ	5.0Ø	1.0	30	300	5.0M§			EM	TO3	CØ
8#	2SA657		50	$J	7.0		100	5.0	80	1.0mØ	5.0Ø	1.0	30	300	5.0M§			EM	TO3	CØ
9#	2SA658		50	$J	7.0		70	5.0	50	1.0mØ	5.0Ø	1.0	30	300	5.0M§			EM	TO3	CØ
10#	2SA663		60 Ø	$J	7.0		100	5.0	80	1.0mØ	5.0Ø	1.0	30	200	6.0M§			EM	TO3	C
11#	2SA670		25 Ø	$J	3.0		50	4.0	50	100uØ	4.0Ø	1.0	35	200	11M§			EA†	X75	
12#	2SA671		25 Ø	$J	3.0		50	4.0	50	100uØ	4.0Ø	1.0	35	200	11M§			EA†	X75a	
13#	2SA673		400m	♦J	500m		35	4.0	35	500nØ	3.0Ø	10m	40	320				PE†		
14#	2SA673A		400m	♦J	500m		50	4.0	50	500nØ	3.0Ø	10m	40	320				PE†		
15#	2SA715		8.0 Ø	$J	1.5		35	5.0	35	20uØ	2.0Ø	200m	35	320	10M§			EA†	X58	
16#	2SA738		8.0 Ø	$	1.5		25	5.0	25	20uØ	2.0Ø	500m	35	320				E	TO126	B
17#	2SA743		8.0 Ø	$	1.0		50	4.0	50	20u*	4.0Ø	50m	40	320	10M§			E	TO126	B
18#	2SA743A		8.0 Ø	$	1.0		80	4.0	80	20u*	4.0Ø	50m	40	320	10M§			E	TO126	B
19#	2SA744		70 Ø	$J	8.0	3.0	80	6.0	80	1.0m	4.0Ø	3.0	30		15M§	400m		EM	TO3	CØ
20#	2SA745		70 Ø	$J	8.0	3.0	100	6.0	100	1.0m	4.0Ø	3.0	30		15M§	400m		EM	TO3	CØ
21#	2SA746		100 Ø	$J	10	4.0	80	6.0	80	1.0m	4.0Ø	3.0	30		15M§	500m		EM	TO3	CØ
22#	2SA747		100 Ø	$J	10	4.0	120	6.0	120	1.0m	4.0Ø	3.0	30		15M§	500m		EM	TO3	CØ
23#	2SA764		40 Ø	$J	6.0	3.0	60	6.0	60	1.0m	4.0Ø	1.0	30		15M§	500m		EM	TO66	CØ
24#	2SA765		40 Ø	$J	6.0	3.0	80	6.0	80	1.0m	4.0Ø	1.0	30		15M§	500m		EM	TO66	CØ
25#	2SB502		20 Ø	$J	3.0		100	8.0	80	100uØ	5.0Ø	500m	30	280	1.0M§			D	TO66	
26#	2SB503		20 Ø	$J	3.0		70	8.0	50	100uØ	5.0Ø	500m	30	280	1.0M§			D	TO66	
27#	2SB507		30 Ø	$J	3.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			E	X75	
28#	2SB508		30 Ø	$J	3.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			E	X75	
29#	2SB509		35 Ø	$J	4.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			E	TO66	
30#	2SB510		800m	$	1.5 #		80	7.0	60	1.0uØ	2.0Ø	200m	60	320 #	50M§	1.0		PE	TO39	AØ
31#	2SB511		10 Ø	$J	1.5		35	5.0	35	100uØ	2.0Ø	1.0	40	320	8.0M§			E	X75	
32#	2SB514		20 Ø	$J	2.0		50	5.0	50	100uØ	2.0Ø	1.0	40	320	8.0M§			E	X75	
33#	2SB515		20 Ø	$J	2.0		50	5.0	50	100uØ	2.0Ø	1.0	40	320	8.0M§			E	X75	
34#	2SB518		60 Ø	♦J	7.0		90	8.0	90 §	100uØ	2.0Ø	3.0	50 Ø		3.0M§△				TO3	CØ
35#	2SB519		100 Ø	♦J	10		110	8.0	110 §	100uØ	2.0Ø	4.0	50 Ø		3.0M§△				TO3	CØ
36#	2SB520		120 Ø	♦J	12		140	8.0	140 §	100uØ	2.0Ø	5.0	50 Ø		3.0M§△				TO3	CØ
37#	BFR23†		7.0 Ø	§J							10Ø	500m	20		60M§△				TO39	AØ
38#	BSV82		10	J							1.0Ø	500m	15		120M§		50nØ		TO39	
39	HA7730		1.0	♦			40	20		5.0u	10	5.0m△	22 Ø	†	1.0M†			A	X3	
40	HA7731		1.0	♦			80	40		2.0u	10	5.0m△	22 Ø	†	1.0M†			A	X3	
41	HA7732		1.0	♦			40	20		5.0u	10	5.0m△	60 Ø	†	1.0M†			A	X3	
42	HA7733		1.0	♦			80	40		2.0u	10	5.0m△	60 Ø	†	1.0M†			A	X3	
43	HEP76-RT		1.0 ▼%	§J	400m$		40 $	3.5$	20 $	1.0u$	25		15		250M§				TO39	
44	HEP242-RT		6.0 %	§J	3.0 $		60 $	7.0$	40 $	500u$	40		60 Ø		8.0M§				TO5	A
45	HEP246-RT		30 %	§J	3.0 $		60 $	5.0$	40 $	500u$	40		60 Ø		8.0M§				X58b	B
46	HEP248-RT		150 %	§J	10 $		70 $	7.0$	50 $	2.0m$	40		60 Ø		6.0M§				TO3	CØ
47	HEP700-RT		40 %	§J	5.0 $		40 $	5.0$	40 $	100u$	25		70 Ø		8.0M§				X58b	B
48	HEP702-RT		25 %	§J	3.0 $		80 $	5.0$	80 $	100u$	60		80 Ø		8.0M§				TO66	CØ
49	HEP705-RT		87 %	§J	5.0 $		40 $	5.0$	40 $	1.0m$	40		250 Ø		4.0M§				TO3	CØ
50	HEP708-RT		1.8 %	§J	600m$		60 $	5.0$	60 $	3.0n$	30		85 Ø		275M§				TO18	A
51	HEP710-RT		3.0 %	§J	100m$		95 $	4.5$	80 $	5.0n$	15		25 Ø		200M§				TO5	A
52	HEPS3003-RT		6.0 %	§J	5.0 $		80 $	5.0$	80 $	100u$			80 Ø		30M§				X81	A
53	HEPS3027-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			110 Ø		50M§				X81	A
54	HEPS3028-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			200 Ø		50M§				X81	A
55	HEPS3029-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			320 Ø		50M§				X81	A
56	HEPS3030-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			550 Ø		50M§				X81	A
57	HEPS3031-RT		5.0 %	†J	1.0 $		80 $	4.0$	80 $	100nØ$			140 Ø		125M§				X81	A
58	HEPS5002-RT		90 %	§J	10 $		70 $	5.0$	60 $	1.0m$			50 Ø		2.0M§				U115b	B
59	HEPS5005-RT		90 %	§J	10 $		90 $	4.0$	90 $	100u$			70 Ø		2.0M§				U115b	B
60	HEPS5006-RT		40 %	§J	4.0 $		80 $	5.0$	80 $	100u$			60 Ø		2.0M§				U115a	B
61	HEPS5007-RT		40 %	§J	4.0 $		60 $	5.0$	60 $	100u$			60 Ø		2.0M§				U115a	B
62	HEPS5008-RT		65 %	§J	5.0 $		40 $	4.0$	40 $	100u$			70 Ø		2.0M§				U115b	B
63	HEPS5009-RT		65 %	§J	5.0 $		40 $	4.0$	40 $	100u$			120 Ø		2.0M§				U115b	B
64	HEPS5010-RT		65 %	§J	5.0 $		40 $	4.0$	40 $	100u$			200 Ø		2.0M§				U115b	B
65	HEPS7001-RT		200 %	§J	30 $		100 $	4.0$	100 $	1.0m$			75 Ø		2.0M§				TO3	CØ
66	SK3025-RT		7.0 Ø	§J	1.0		90	7.0	90		10	150m	100 Ø	#	100M§			PE	TO5	A
67	SK3053-RT		10	§J	1.0		200	4.0	200		10	50m	90 Ø		15M§			D	TO5	A
68	SK3083-RT		40	§J	7.0		80	5.0	70				90 Ø		10M§			E	Y220b	DØ
69	SK3084-RT		40	§J	7.0		40	5.0	30				100 Ø		10M§			E	Y220b	DØ
70	SK3085-RT		40	§J	6.0		50	5.0	40				60 Ø		5.0M§			E	TO66	CØ
71	SK3513-RT		10		2.0		100	7.0	75			400m	70 Ø		70M§				TO5	A
72	SSP60		30		1.0				40			1.0	15	75		700m				
73	SSP60A		30		1.0				60			1.0	15	75		700m				
74	SSP60B		30		1.0				80			1.0	15	75		700m				
75	SSP60C		30		1.0				100			1.0	15	75		700m				
76	SSP64		40		3.0				40			3.0	10	50		400m				
77	SSP64A		40		3.0				60			3.0	10	50		400m				
78	SSP64B		40		3.0				80			3.0	10	50		400m				
79	SSP64C		40		3.0				100			3.0	10	50		400m				
80	SSP68		80		10				40			3.0	20	100		400m				
81	SSP68A		80		10				60			3.0	20	100		400m				
82	SSP68B		80		10				80			3.0	20	100		400m				
83	SSP68C		80		10				100			3.0	20	100		400m				
84	SSP72		125		25				40			15	10	50		160m				
85	SSP72A		125		25				60			15	10	50		160m				
86	SSP72B		125		25				80			15	10	50		160m				
87	SSP72C		125		25				100			15	10	50		160m				
88	SSP84		65		6.0				40			3.0	15	75		333m				
89	SSP84A		65		6.0				60			3.0	15	75		333m				
90	SSP84B		65		6.0				80			3.0	15	75		333m				
91	SSP84C		65		6.0				100			3.0	15	75		333m				
92	TRSP3254S		1.0		.40	.40	350	5.0	325	.02m	10	20	30		30M				TO5	
93	TRSP3255S		2.0		.40	.40	350	5.0	325	.02m	10	20	30		30M				MD14	
94	TRSP3504S		1.0		.40	.40	375	5.0	350	.02m	10	20	30		30M				TO5	
95	TRSP3505S		2.0		.40	.40	375	5.0	350	.02m	10	20	30		30M				MD14	
96	TRSP3754S		1.0		.40	.40	400	5.0	375	.02m	10	20	30		30M				TO5	
97	TRSP3755S		2.0		.40	.40	400	5.0	375	.02m	10	20	30		30M				MD14	
98	2N5023†	2.2m	1.0 Ø	§S	500m		30	5.0	3.0	1.0u§	1.0Ø	500m	40	100	200M§△		1.7		TO39	AØ
99#	BCY77IX†	2.2mØ	1.0	§J	100m			5.0	60		5.0Ø	2.0m	350 Ø		180M§		50n	PEØ	TO18	A
100#	BCY77VII†	2.2mØ	1.0	§J	100m			5.0	60		5.0Ø	2.0m	170 Ø		180M§		50n	PEØ	TO18	A
101#	BCY77VIII†	2.2mØ	1.0	§J	100m			5.0	60		5.0Ø	2.0m	250 Ø		180M§		50n	PEØ	TO18	A
102	2N5091	2.6m$	2.0 Ø	§A	1.0	500m	350	6.0	300	500nØ	15Ø	100m	20	200	20M§△	120			TO5	AØ
103	2N5093	2.6m$	2.0 Ø	§A	1.0	500m	400	6.0	350	500nØ	15Ø	100m	20	200	20M§△	120			TO5	AØ
104	2N5094	2.6m$	2.0 Ø	§A	1.0	500m	450	6.0	400	500nØ	15Ø	100m	20	200	20M§△	120			TO5	AØ
105	2N5096	2.6m$	2.0 Ø	§A	1.0	500m	500	6.0	450	500nØ	15Ø	100m	20	200	20M§△	120			TO5	AØ
106	KF3509	2.6m	1.0	J	200m		40	2.5	20	500nØ	20	20m	20		1.8G			PEØ	TO39	
107	JAN2N3467†	2.8m	1.0	§S	1.0		40	5.0	40	100nØ	1.0Ø	500m	40	120	175M§△	1.2	30n		TO5	AØ
108	JAN2N3468†	2.8m	1.0	§S	1.0		50	5.0	50	100u	1.0Ø	500m	25	75	150M§△	1.2	30n		TO5	AØ
109	JAN2N3635†	2.8m	1.0	§J	1.0		140	5.0	140	100u	10Ø	50m	100	300 #	200M§△		400nØ	Ø	TO5	AØ
110	JAN2N3636†	2.8m	1.0	§J	1.0		175	5.0	175	100u	10Ø	50m	50	150 #	150M§△		400nØ	Ø	TO5	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1	JAN2N3637†	2.8m	1.0	§J	1.0		175	5.0	175	100u	10Ø	50m	100	300 #	200M§Δ		400nØ	Ø	TO5	AØ
2	2N5160	2.8m	5.0 Ø	§J	400m		60	4.0	40	1.0uØ	5.0Ø	50m	10		500M§Δ				TO39	AØ
3	2N5281	2.8m§	2.0 Ø	§A	1.0	500m	175	5.0	150	1.0uØ	10Ø	1.0m	20	200	20M§Δ	5.0m			TO5	AØ
4	2N5282	2.8m§	2.0 Ø	§A	1.0	500m	325	5.0	300	1.0uØ	10Ø	1.0m	20	200	20M§Δ	5.0m			TO5	AØ
5	40406	2.8m	1.0	§J	700m	200m		4.0	50	1.0uΔ	10Ø	100u	30	200	100M§			D	TO5	AØ
6#	BSV15†	5.0m	5.0 Ø	§J	1.0	200m		5.0	40	100n§	1.0Ø	100m	40	250 *	50M§Δ	2.0	500n§	PE	TO39	AØ
7#	BSV15-6†	5.0mØ	1.0	§J	1.0			5.0	40	100n§	1.0Ø	100m	63 Ø		50M§Δ		500nØ	PE	TO39	A
8#	BSV15-10†	5.0mØ	1.0	§J	1.0			5.0	40	100n§	1.0Ø	100m	100 Ø		50M§Δ		500nØ	PE	TO39	A
9#	BSV15-16†	5.0mØ	1.0	§J	1.0			5.0	40	100n§	1.0Ø	100m	160 Ø		50M§Δ		500nØ	PE	TO39	A
10#	BSV16†	5.0m	5.0 Ø	§J	1.0	200m		5.0	60	100n§	1.0Ø	100m	40	250 *	50M§Δ	2.0	500n§	PE	TO39	AØ
11#	BSV16-6†	5.0mØ	1.0	§J	1.0			5.0	60	100n§	1.0Ø	100m	63 Ø		50M§Δ		500nØ	PE	TO39	A
12#	BSV16-10†	5.0mØ	1.0	§J	1.0			5.0	60	100n§	1.0Ø	100m	100 Ø		50M§Δ		500nØ	PE	TO39	A
13#	BSV16-16†	5.0mØ	1.0	§J	1.0			5.0	60	100n§	1.0Ø	100m	160 Ø		50M§Δ		500nØ	PE	TO39	A
14#	BSV17†	5.0m	5.0 Ø	§J	1.0	200m		5.0	80	100n§					50M§Δ		500n§	PE	TO39	AØ
15#	BSV17-6†	5.0mØ	1.0	§J	1.0			5.0	80	100n§	1.0Ø	100m	63 Ø		50M§Δ		500nØ	PE	TO39	A
16#	BSV17-10†	5.0mØ	1.0	§J	1.0			5.0	80	100n§	1.0Ø	100m	100 Ø		50M§Δ		500nØ	PE	TO39	A
17	2N3467†	5.6m	1.0	§S	1.0		40	5.0	40	100nØ	1.0Ø	500m	40	120 #	175M§Δ		30n	TO5	AØ	
18	2N3468†	5.6m	1.0	§S	1.0		50	5.0	50	100nØ	1.0Ø	500m	25	75 #	150M§Δ		30n	TO5	AØ	
19	2N4037	5.6m	1.0	§S	1.0	500m	60	7.0	40	250n	10Ø	150m	50	250	60M§Δ	930m			TO5	AØ
20	2N4234	5.6m	1.0	§J	1.0	200m	40	7.0	40	100u	1.0Ø	250m	30	150 #	3.0M§Δ				TO5	AØ
21	2N4235	5.6m	1.0	§J	1.0	200m	60	7.0	60	100u	1.0Ø	250m	30	150 #	3.0M§Δ				TO5	AØ
22	2N4236	5.6m	1.0	§J	1.0	200m	80	7.0	80	100u	1.0Ø	250m	30	150 #	3.0M§Δ				TO5	AØ
23	2N4314	5.6m	1.0	§S	1.0	500m	90	7.0	65	250nØ	10Ø	150m	50	250	200M§Ø	9.3			TO5	AØ
24	MM4001	5.6mØ	1.0	§J	500m		150	4.0	150 *	1.0uØ	10Ø	10m	20 #					EA	TO39	AØ
25	MM4002	5.6mØ	1.0	§J	500m		200	4.0	200 *	5.0uØ	10Ø	10m	20 #					EA	TO39	AØ
26	MM4003	5.6mØ	1.0	§J	500m		250	4.0	250 *	5.0uØ	10Ø	10m	20 #					EA	TO39	AØ
27	JAN2N4405	5.7mØ	1.0	§A	500m		80	5.0	80	25nØ	5.0Ø	150m	100	300	200M§Δ		25nØ		TO39	AØ
28	2N5679	5.7m	1.0	§J	1.0	500m	100 †	4.0†	100	1.0u	2.0Ø	1.0	40	150	30M§Δ	2.0			TO5	AØ
29	2N5680	5.7m	1.0	§J	1.0	500m	120 †	4.0†	120	1.0u	2.0Ø	1.0	40	150	30M§Δ	2.0			TO5	AØ
30	2N6303†	5.7m	1.0	§S	3.0	500m	80 †	4.0†	80	1.0u	2.0Ø	1.5	30	150 #	60M§Δ		65nØ		TO5	AØ
31	40537	5.7mØ	1.0	§J	700m	200m		5.0	55 §	10u*	4.0Ø	50m	50	300	100M§	22		DPE	TO5	AØ
32▼	40537L	5.7mØ	1.0	§J	700m	200m		5.0	55 §Ø	10u*	4.0Ø	50m	50	300	100M§	22		DPE	TO5	AØ
33▼	40537S	5.7mØ	1.0	§J	700m	200m		5.0	55 §Ø	10u*	4.0Ø	50m	50	300	100M§	22		DPE	TO39	AØ
34	40538	5.7mØ	1.0	§J	700m	200m		5.0	55 §	10u*	4.0Ø	500m	15	90 #	100M§	4.0		DPE	TO5	AØ
35▼	40538L	5.7mØ	1.0	§J	700m	200m		5.0	55 §Ø	10u*	4.0Ø	500m	15	90 #	100M§	4.0		DPE	TO5	AØ
36▼	40538S	5.7mØ	1.0	§J	700m	200m		5.0	55 §Ø	10u*	4.0Ø	500m	15	90 #	100M§	4.0		DPE	TO39	AØ
37	SRLP1004	6.6m	1.0	§J	1.0	500m	100	4.0	100 §	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
38	SRLP2004	6.6m	1.0	§J	1.0	500m	200	4.0	200 §	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
39	SRLP2254S	6.6m	1.0	§J	1.0	500m	250	4.0	225	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
40	SRLP2504	6.6m	1.0	§J	1.0	500m	250	4.0	250 §	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
41	SRLP2504S	6.6m	1.0	§J	1.0	500m	275	4.0	250	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
42	SRLP2754S	6.6m	1.0	§J	1.0	500m	300	4.0	275	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
43	SRLP3004	6.6m	1.0	§J	1.0	500m	300	4.0	300 §	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
44	SRLP3004S	6.6m	1.0	§J	1.0	500m	325	4.0	300	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
45	SRLP3504	6.6m	1.0	§J	1.0	500m	350	4.0	350 §	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
46	SRLP3504S	6.6m	1.0	§J	1.0	500m	375	4.0	350	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
47	SRLP4004	6.6m	1.0	§J	1.0	500m	400	4.0	400 §	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
48	SRLP4004S	6.6m	1.0	§J	1.0	500m	425	4.0	400	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
49	SRLP4504	6.6m	1.0	§J	1.0	500m	450	4.0	450 §	10uØ	10Ø	500m	15		5.0M§Δ			EM	TO5	AØ
50	SRSP1004	6.6m	1.0	§J	400m	50m	100	5.0	100 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
51	SRSP2004	6.6m	1.0	§J	400m	50m	200	5.0	200 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
52	SRSP2254S	6.6m	1.0	§J	400m	50m	250	5.0	225	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
53	SRSP2504	6.6m	1.0	§J	400m	50m	250	5.0	250 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
54	SRSP2504S	6.6m	1.0	§J	400m	50m	275	5.0	250	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
55	SRSP2754S	6.6m	1.0	§J	400m	50m	300	5.0	275	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
56	SRSP3014	6.6m	1.0	§J	400m	50m	300	5.0	300 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
57	SRSP3014S	6.6m	1.0	§J	400m	50m	325	5.0	300	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
58	SRSP3504	6.6m	1.0	§J	400m	50m	350	5.0	350 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
59	SRSP3514S	6.6m	1.0	§J	400m	50m	375	5.0	350	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
60	SRSP4014	6.6m	1.0	§J	400m	50m	400	5.0	400 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
61	SRSP4014S	6.6m	1.0	§J	400m	50m	425	5.0	400	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
62	SRSP4504	6.6m	1.0	§J	400m	50m	450	5.0	450 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
63	SRSP5014	6.6m	1.0	§J	400m	50m	500	5.0	500 §	3.0uØ	10Ø	25m	25		5.0M§Δ	200		EM	TO5	AØ
64	TRSP2254	6.6mØ	1.0	§A	400m	50m	225	5.0	225 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
65	TRSP2254S	6.6mØ	1.0	§A	400m	50m	250	5.0	225	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
66	TRSP2504	6.6mØ	1.0	§A	400m	50m	250	5.0	250 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
67	TRSP2504S	6.6mØ	1.0	§A	400m	50m	275	5.0	250	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
68	TRSP2754	6.6mØ	1.0	§A	400m	50m	275	5.0	275 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
69	TRSP2754S	6.6mØ	1.0	§A	400m	50m	300	5.0	275	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
70	TRSP3014	6.6m§	1.0	§A	400m	50m	300	5.0	300 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
71	TRSP3014S	6.6m§	1.0	§A	400m	50m	325	5.0	300	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
72	TRSP3504	6.6m§	1.0	§A	400m	50m	350	5.0	350 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
73	TRSP3514S	6.6m§	1.0	§A	400m	50m	375	5.0	350	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
74	TRSP4014	6.6m§	1.0	§A	400m	50m	400	5.0	400 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
75	TRSP4014S	6.6m§	1.0	§A	400m	50m	425	5.0	400	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
76	TRSP4254S	6.6mØ	1.0	§A	400m	50m	450	5.0	425	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
77	TRSP4504	6.6mØ	1.0	§A	400m	50m	450	5.0	450 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
78	TRSP4504S	6.6mØ	1.0	§A	400m	50m	475	5.0	450	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
79	TRSP4754S	6.6mØ	1.0	§A	400m	50m	500	5.0	475	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
80	TRSP5014	6.6mØ	1.0	§A	400m	50m	500	5.0	500 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
81	TRSP5014S	6.6mØ	1.0	§A	400m	50m	525	5.0	500	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200p	DMΔ	TO5	
82#	2SA683	6.8m	750m	Jt	1.5 #		30	5.0	25	100n	10Ø	500m	60 †	340 †	200M§			PE	u55a	B
83#	2SA777	7.0m	750m	†J	1.0 #		80	5.0	80	100n	10Ø	150m	65	330	120M§			PE	u55a	B
84	2N1240	7.1m	1.0	§J			35	35	35	100nØ	2.0Ø	10m	14 Ø		1.2M†			A	X3	
85	2N1241	7.1m	1.0	§J			35	35	35	100nØ	2.0Ø	10m	30 Ø		1.2M†			A	X3	
86	2N1242	7.1m	1.0	§J			60	60	60	100nØ	2.0Ø	10m	14 Ø		1.0M†			A	X3	
87	2N1243	7.1m	1.0	§J			60	60	60	100nØ	2.0Ø	10m	30 Ø		1.0M†			A	X3	
88	2N1244	7.1m	1.0	§J			110	110	110	100nØ	2.0Ø	10m	14 Ø		800k†			A	X3	
89	2N5864	7.1mØ	1.2	§S	1.5		90	5.0	70	500nØ	10Ø	150m	50	500	50M§Δ	3.0			TO39	AØ
90	HA7515	7.1mØ	1.0	§J			150	150		100n	5.0	1.0mΔ	20	†	800k†			A	X3	
91	HA7520	7.1mØ	1.0	§J	100m		35	35		100n	5.0	1.0mΔ	12 †	†	1.2M†				X3	
92	HA7521	7.1mØ	1.0	§J	100m		60	60		100n	5.0	1.0mΔ	12	†	1.2M†			A	X3	
93	HA7522	7.1mØ	1.0	§J			15	15		100n	5.0Ø	1.0mΔ	20 †	†	1.2M†			F		
94	HA7523	7.1mØ	1.0	§J			35	35		100n	5.0Ø	1.0mΔ	20 †	†	1.2M†			F		
95	HA7524	7.1mØ	1.0	§J			60	60		100n	5.0Ø	1.0mØ	20 †	†	1.0M†			F		
96	HA7525	7.1mØ	1.0	§J			110	110		100n	5.0Ø	1.0mØ	20 †	†	800k†			F		
97	HA7526	7.1mØ	1.0	§J			15	15		100n	5.0Ø	1.0mΔ	42 †	†	1.2M†			F		
98	HA7527	7.1mØ	1.0	§J			35	35		100n	5.0Ø	1.0mΔ	42 †	†	1.2M†			F		
99	HA7528	7.1mØ	1.0	§J			60	60		100n	5.0Ø	1.0mØ	42 †	†	1.0M†			F		
100	HA7529	7.1mØ	1.0	§J			90			100n			14 †					A	X3	
101	HA7723	7.1mØ	1.0	§J	50m		50	10		1.0u	6.0Ø	1.0mΔ	25 Ø		100k†			A	X3	
102	HA7725	7.1mØ	1.0	§J	50m		100	60		1.0u	6.0Ø	1.0mΔ	14 Ø		100k†			A	X3	
103	HA7734	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	14 Ø	†	200k†			A	X3	
104	HA7735	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	25 Ø	†	300k†			A	X3	
105	HA7736	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	50 Ø	†	400k†			A	X3	
106	HA7737	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	18 Ø	†	300k†			A	X3	
107#	2SA684	9.0m	1.0	Jt	1.5 #		60	5.0	50	100n	10Ø	500m	60 †	340 †	200M§			PE	u55a	B
108#	2SA751	9.0m	1.0	Jt	1.5 #		30	5.0	25	100n	10Ø	500m	60 †	340 †	200M§			PE	X122	D
109#	2SA752	9.0m	1.0	Jt	1.5 #		60	5.0	50	100n	10Ø	500m	60 †	340 †	200M§			PE	X122	D
110#	2SA779K†	9.6m	1.2	§J							2.0Ø	500m	60	320 *	110M§				u133	D

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1#	2SA780AK†	9.6mØ	1.2	§J						4.0Ø	50m	40	320 *	120M§				u133	D		
2	ST72039†	10m#	15 Ø#	§J	5.0		80	8.0	80 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO5		
3	ST72040†	10m#	15 Ø#	§J	5.0		100	8.0	100 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO5		
4	ST72041†	10m#	15 Ø#	§J	5.0		120	8.0	120 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO5		
5	2N3485†	11m	2.0 Ø	§S	600m		60	5.0	40	20n	10Ø	150m	40	120 #	200M§	3.2	40n	EA	TO46	AØ	
6	2N3486†	11m	2.0 Ø	§S	600m		60	5.0	40	20n	10Ø	150m	100	300 #	200M§	3.2	40n	EA	TO46	AØ	
7	2N5229Ø	12m	2.0 Ø	§S	50m		15	15		1.0nØ	1.0Ø	100u	50		8.0M§Δ				TO46	AØ	
8	2N5230Ø	12m	2.0 Ø	§S	50m		30	30		1.0nØ	1.0Ø	100u	50		8.0M§Δ				TO46	AØ	
9	2N5231Ø	12m	2.0 Ø	§S	50m		50	50		1.0nØ	1.0Ø	100u	50		8.0M§Δ				TO46	AØ	
10	Q2T2905*	12mØ	1.5	§S			60		40 *	20n	10Ø	150m	100 #		200M§			PE	TO116		
11	Q2T3244*	12mØ	1.5	§S			40		40 *	50n	1.0Ø	500m	50 #		175M§			PE	TO116		
12#	BCX10	13mØ	2.0	§J			50	5.0	35	1.0uØ	10Ø	150m	30	90	90M§			PL	TO39		
13	TRSP2255	13mØ	2.0	§A	400m	50m	225	5.0	225 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
14	TRSP2255S	13mØ	2.0	§A	400m	50m	250	5.0	225	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
15	TRSP2505	13mØ	2.0	§A	400m	50m	250	5.0	250 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
16	TRSP2505S	13mØ	2.0	§A	400m	50m	275	5.0	250	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
17	TRSP2755	13mØ	2.0	§A	400m	50m	275	5.0	275 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
18	TRSP2755S	13mØ	2.0	§A	400m	50m	300	5.0	275	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
19	TRSP3015	13mØ	2.0	§A	400m	50m	300	5.0	300 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
20	TRSP3015S	13mØ	2.0	§A	400m	50m	325	5.0	300	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
21	TRSP3505	13mØ	2.0	§A	400m	50m	350	5.0	350 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
22	TRSP3515S	13mØ	2.0	§A	400m	50m	375	5.0	350	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
23	TRSP4015	13mØ	2.0	§A	400m	50m	400	5.0	400 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
24	TRSP4015S	13mØ	2.0	§A	400m	50m	425	5.0	400	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
25	TRSP4255S	13mØ	2.0	§A	400m	50m	450	5.0	425	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
26	TRSP4505	13mØ	2.0	§S	400m	50m	450	5.0	450 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
27	TRSP4505S	13mØ	2.0	§A	400m	50m	475	5.0	450	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
28	TRSP4755S	13mØ	2.0	§A	400m	50m	500	5.0	475	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
29	TRSP5015	13mØ	2.0	§S	400m	50m	500	5.0	500 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
30	TRSP5015S	13mØ	2.0	§S	400m	50m	525	5.0	500	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	MD14		
31	JAN2N3763†	16m	1.0	§J	1.5		60	5.0	60 *	100nØ	1.0Ø	500m	40	140 #	150M§Δ	10	35nØ		TO5	AØ	
32♦	2N6040	17m	2.2	§J	8.0	120m	60 †	5.0†	60	500u♦	4.0Ø	4.0	1.0k	2.0k#	4.0M§Δ	500m#			X104a	DØ	
33♦	2N6041	17m	2.2	§J	8.0	120m	80 †	5.0†	80	500u♦	4.0Ø	4.0	1.0k	2.0k#	4.0M§Δ	500m#			X104a	DØ	
34♦	2N6042	17m	2.2	§J	8.0	120m	100 †	5.0†	100	500u♦	4.0Ø	3.0	1.0k	2.0k#	4.0M§Δ	500m#			X104a	DØ	
35	JAN2N6211†	17mØ	3.0	§J	2.0	1.0	275	6.0	225	15m	5.0Ø	1.0	30	175 #	20M§Δ		600nØØ		TO66	CØ	
36	JAN2N6212†	17mØ	3.0	§J	2.0	1.0	350	6.0	300	15m	5.0Ø	1.0	30	175 #	20M§Δ		600nØØ		TO66	CØ	
37	JAN2N6213†	17mØ	3.0	§J	2.0	1.0	400	6.0	350	15m	5.0Ø	1.0	30	175 #	20M§Δ		600nØØ		TO66	CØ	
38	40391	20mØ	3.5	§J	1.0	500m	60	7.0	40	250n	10Ø	1.0m	15		60M§Δ	9.3		DPEΔ	MM9		
39	40410	20mØ	3.0 #	§J	700m	200m		4.0	90 §	1.0u*	4.0Ø	150m	50	250	100M§	9.3		D	MM9		
40	RS1875	20m	3.5 Ø	§S	400m		55	4.0	55 §	10n	5.0	1.0m	20		1.2G§	3.0			TO39	AØ	
41	2N3762†	22m	1.0	§S	1.5		40	5.0	40	100n#	1.5Ø	1.0	30	120	180M§Δ	10	40n		TO5	AØ	
42	2N3763†	22m	1.0	§S	1.5		60	5.0	60	100n#	1.5Ø	1.0	20	80	150M§Δ	10	40n		TO5	AØ	
43	NS3762	22m	1.0	§J	1.5		60	5.0	60	100n#	1.5Ø	1.0	30	120	1.8M§Δ		35n	PEΔ	TO39	AØ	
44	NS3763	22m	1.0	§J	1.5		60	5.0	60	100n#	1.5Ø	1.0	20	80	1.5M§Δ		35n	PEΔ	TO39	AØ	
45	2N5022†	25m	1.0 Ø	§S	500m		50	5.0	50	100n§	1.0Ø	500m	25	100	170M§Δ	800m	30n		TO39	AØ	
46	2N3244†	28m	1.0	§J	1.0		40	5.0	40	50nØ	1.0Ø	500m	50	150 #	175M§Δ		35nØ		TO5	AØ	
47	2N3245†	28m	1.0	§J	1.0		50	5.0	50	50nØ	1.0Ø	500m	30	90 #	150M§Δ		40nØ		TO5	AØ	
48	2N3634†	28m	1.0	§S	1.0		140	5.0	140	100nØ	10Ø	50m	50	150	150M§Δ	40	400nØØ	Ø	TO5	AØ	
49	JAN2N3634†	28m	1.0	§J	1.0		140	5.0	140	100u	10Ø	50m	50	150 #	150M§Δ		400nØØ	Ø	TO5	AØ	
50	2N3635†	28m	1.0	§S	1.0		140	5.0	140	100nØ	10Ø	50m	100	300	200M§Δ	40	400nØØ	Ø	TO5	AØ	
51	2N3636†	28m	1.0	§S	1.0		175	5.0	175	100nØ	10Ø	50m	50	150	150M§Δ	40	400nØØ	Ø	TO5	AØ	
52	2N3637†	28m	1.0	§S	1.0		175	5.0	175	100nØ	10Ø	50m	100	300	200M§Δ	40	400nØØ	Ø	TO5	AØ	
53	2N3743	28m	1.0	§S	50m		300	5.0	300	300nØ	10Ø	30m	25	250	30M§Δ	500			TO39	AØ	
54	JAN2N3743	28m	1.0	§J	50m		300	5.0	300	100u	10Ø	300m	50	200 #	40M§Δ				TO39	AØ	
55	2N4404†	28m	5.0 Ø	§S	500m		80	5.0	80	25nØ	5.0Ø	150m	40	120 #	200M§Δ		25n		TO39	AØ	
56	2N4405†	28m	5.0 Ø	§S	500m		80	5.0	80	25nØ	5.0Ø	150m	100	300 #	200M§Δ		25n		TO39	AØ	
57	2N4406†	28m	5.0 Ø	§S	1.5		80	5.0	80	25nØ	5.0Ø	500m	30	120 #	150M§Δ		60n		TO39	AØ	
58	2N4407†	28m	5.0 Ø	§S	1.5		80	5.0	80	25nØ	5.0Ø	500m	80	240 #	150M§Δ		60n		TO39	AØ	
59	2N4890†	28m	1.0	§S	500m		60	5.0	40	250n#	10Ø	150m	50	250	100M§Δ	9.3	50n		TO5	AØ	
60♦	2N4929	28m	1.0	§S	50m		150	4.0	150	500nØ	10Ø	10m	25	200 #	100M§Δ	50 #			TO39	AØ	
61♦	2N4930	28m	1.0	§S	50m		200	4.0	200	1.0uØ	10Ø	10m	20	200 #	20M§Δ	500 #			TO39	AØ	
62	JAN2N4930	28m	1.0	§J	50m		200	5.0	200	100u	10Ø	30m	50	200 #	40M§Δ				TO39	AØ	
63♦	2N4931	28m	1.0	§S	50m		250	4.0	250	1.0uØ	10Ø	10m	20	200 #	20M§Δ	500 #			TO39	AØ	
64	JAN2N4931	28m	1.0	§J	50m		250	5.0	250	100u	10Ø	30m	50	200 #	40M§Δ				TO39	AØ	
65	2N5583	28m	5.0 Ø	§S	500m		30	3.0	30	50nØ	2.0Ø	100m	25	100	1.0G§Δ	8.0		Δ	TO39	AØ	
66	2N5834	28m	5.0 Ø	§S	1.0		60	4.0	40	10m§†	5.0Ø	250m	10						TO39	A	
67	40319	28m	1.0	§J	700m	200m		2.5	40	250n	4.0Ø	50m	35	200	100M§	9.3		PE	TO5	AØ	
68▼	40319L	28m	1.0	§J	700m	200m		2.5	40 Ø	250n	4.0Ø	50m	35	200	100M§	9.3		D	TO5	AØ	
69▼	40319S	28m	1.0	§J	700m	200m		2.5	40 Ø	250n	4.0Ø	50m	35	200	100M§	9.3		D	TO39	AØ	
70	40362	28m	5.0 Ø	§J	700m	200m		4.0	70 §	10mΔ	4.0Ø	50	35	200	100M§			PE	TO5	AØ	
71▼	40362L	28m	1.0 Ø	§J	700m	200m		4.0	70 §Ø	1.0u*	4.0Ø	50m	35	200	100M§	9.3		D	TO5	AØ	
72▼	40362S	28m	1.0 Ø	§J	700m	200m		4.0	70 §Ø	1.0u*	4.0Ø	50m	35	200	100M§	9.3		D	TO39	AØ	
73▼	40406L	28m	1.0	§J	700m	200m		4.0	50 Ø	1.0uΔ	10Ø	100u	30	200	100M§			D	TO5	AØ	
74▼	40406S	28m	1.0	§J	700m	200m		4.0	50 Ø	1.0uΔ	10Ø	100u	30	200	100M§			D	TO39	AØ	
75	40634	28m	1.0	§A	700m	200m		7.0		10u*	4.0Ø	150m	50	250		2.7		PE	TO5	AØ	
76▼	40634L	28m	1.0	§A	700m	200m		7.0	75 §Ø	10u*	4.0Ø	150m	50	250					TO5	AØ	
77▼	40634S	28m	1.0	§A	700m	200m		7.0	75 §Ø	10u*	4.0Ø	150m	50	250					TO39	AØ	
78#	BC160†	28m	3.2	§J	1.0	100m	40	5.0	40	100n§	1.0Ø	100m	40	250 *	50M§Δ	1.0	500nØ	E	TO39	AØ	
79#	BC161†	28m	3.2	§J	1.0	100m	60	5.0	60	100n§	1.0Ø	100m	40	250 *	50M§Δ	1.0	500nØ	E	TO39	AØ	
80#	BFS92†	28m#	5.0 Ø	§J	1.0		100	6.0	60	50nØ	10Ø	150m	30		70M§	15	35n		TO39	AØ	
81#	BFS93†	28m#	5.0 Ø	§J	1.0		100	6.0	60	50nØ	10Ø	150m	70		70M§	15	35n		TO39	AØ	
82#	BFS94†	28m#	5.0 Ø	§J	1.0		80	6.0	40	50nØ	10Ø	150m	40		70M§	10	35n		TO39	AØ	
83#	BFS95†	28m#	5.0 Ø	§J	1.0		40	6.0	35	50nØ	10Ø	150m	70		70M§	10	35n		TO39	AØ	
84	MJ4645†	28m	5.0 Ø	§J	500m		200	5.0	200	10u#	10Ø	10m	20		40M§Δ	2.0	100nØ		TO39	A	
85	MJ4646†	28m	5.0 Ø	§J	500m		300	5.0	300	10u#	10Ø	10m	20		40M§Δ	2.4	100nØ		TO39	A	
86	MJ4647†	28m	5.0 Ø	§J	500m		400	5.0	400	10u#	10Ø	10m	20		30M§Δ	3.0	100nØ		TO39	A	
87	MJ4648†	28m	5.0 Ø	§J	500m		350	5.0	350	10u#	10Ø	10m	20		40M§Δ	3.0	100nØ		TO39	A	
88	MM3726†	28m	1.0	§J	1.5			5.0	50	100nØ	2.0Ø	500m	30	120	200M§Δ	1.2		EA	TO5	AØ	
89	MM4008	28m	1.0	§J	100m		60	3.0	60	100nØ	1.0Ø	10m	75					AN	TO39	A	
90	MM4009	28m	1.0	§J	100m		80	3.0	80	100nØ	1.0Ø	10m	75					AN	TO39	A	
91	MM4010	28m	1.0	§J	100m		100	3.0	100	100nØ	1.0Ø	10m	75					AN	TO39	A	
92	MM4018	28m	5.0 Ø	§J	400m		40	4.0	20	10uØ	5.0Ø	50m	10		900M§				TO39	A	
93	MM4019	28m	5.0 Ø	§J	1.0		60	4.0	40	100uΔ	5.0Ø	250m	10		750M§				TO39	A	
94	RCA1A05	28m	5.0 Ø	§J	1.0	500m	75	4.0	75 §	10u*♦	4.0Ø	150m	50	250	60M§Δ	5.3		PE	TO39	AØ	
95#	MC150	30m	3.0 Ø	♦A	1.0		80	7.0	40	100nØ	1.0Ø	150m	40	300	60M§	1.0		DPE	TO126	A	
96#	MC151	30m	3.0 Ø	♦A	1.0		100	7.0	60	100nØ	1.0Ø	150m	40	300	60M§	1.0		DPE	TO126	A	
97#	MC152	30m	3.0 Ø	♦A	1.0		100	5.0	100	100nØ	1.0Ø	150m	20	300	60M§	1.0		DPE	TO126	A	
98#	MC350	30m	3.0 Ø	♦A	1.0		35	5.0	30	100nØ	2.0Ø	150m	40	300	60M§	1.0		DPE	TO126	A	
99	40829	33mØ	5.8	§J	6.0	2.0	90	5.0	80	100u*♦	4.0Ø	2.0	20	100 #	5.0M§Δ	500m#		E	MD30	CØ	
100	40830	33mØ	5.8	§J	6.0	2.0	70	5.0	60	100u*♦	4.0Ø	2.5	20	100 #	5.0M§Δ	400m#		E	MD30	CØ	
101	40831	33mØ	5.8	§J	6.0	2.0	50	5.0	40	100u*♦	4.0Ø	3.0	20	100 #	5.0M§Δ	333m#		E	MD30	CØ	
102	2N3719†	34m	6.0 Ø	§J	3.0	500m	40	4.0	40	10u	1.5Ø	1.0	25	180 #	60M§Δ		100nØ		TO5	AØ	
103	2N3720†	34m	6.0 Ø	§J	3.0	500m	60	4.0	60	10u	1.5Ø	1.0	25	180 #	60M§Δ		100nØ		TO5	AØ	
104	2N3867†	34m	1.0	§J	3.0		40	4.0	40	150u	3.0Ø	2.5	25		60M§Δ	1.0	65nØ		TO5	AØ	
105	2N3868†	34m	1.0	§J	3.0		60	4.0	60	150u	3.0Ø	2.5	20		60M§Δ	1.0	65nØ		TO5	AØ	
106#	BFT35	34m	1.0	§A	5.0		80	5.0	60	100nØ	10Ø	150m	50	300 #	100M§Δ			PE	TO39	AØ	
107#	BFT36	34m	1.0	§A	5.0		100	5.0	80	100nØ	10Ø	150m	50	250 #	100M§Δ			PE	TO39	AØ	
108#	BFT37	34m	1.0	§A	5.0		120	5.0	100	100nØ	10Ø	150m	50	200 #	100M§Δ			PE	TO39	AØ	
109	2N4036†	40m	7.0 Ø	§J	1.0	500m	90	7.0	65	100u	2.0Ø	150m	20	200	60M§Δ	4.3	110nØØ		TO5	AØ	
110	2N5147	40m	1.0	§J	2.0	1.0	100 †	5.5†	80	1.0m#♦	5.0Ø	1.0	30	90 #	50M§Δ				TO39	AØ	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a T0200 Ser.	L E A D	C O D E
1	2N5149	40m	1.0	§J	2.0	1.0	100 †	5.5†	80	1.0m#♦	5.0Ø	1.0	70	200 #	60M§△				TO39		AØ
2	2N5675	40m§	1.0	§J	2.0	500m	125 †	6.0†	100	100nØ♦	5.0Ø	500m	50	150 #	50M§△				TO5		AØ
3	2N5865†	40m	1.2	§S	1.0		70	5.0	50	200nØ	1.0Ø	150m	40	200	100M§△	2.5	90nØ		TO39		AØ
4#	2SA794	40m	5.0	§J	500m		100	5.0	100	10u	10Ø	150m	65	330	120M§			PE	T0126	B	
5	40394	40m	7.0	§J	1.0	500m	60	7.0	40	250n	10Ø	1.0m	15		60M§△	9.3		DPE△	MD28a		
6#	BC303	40m	6.0 Ø	§J	1.0 #		85	7.0	60	20nØ	10Ø	150m	40	240	75M§			PE△	TO39		AØ
7#	BC304	40m	6.0 Ø	§J	1.0 #		60	7.0	45	20nØ	10Ø	150m	40	240	75M§			PE△	TO39		AØ
8#	BFR24	40m	7.0	§S	1.0	500m	60	7.0	40	250n	10Ø	150m	50	250					TO39		AØ
9	RCA1A02	40m	7.0 Ø	§J	1.0	500m		4.0	50	1.0u△♦	10Ø	100u	30	200	60M§△			PE	TO39		AØ
10	RCA1A08	40m	7.0 Ø	§J	1.0	50m	50	5.0	40	10u*♦	1.5Ø	50m	70	250	60M§△	14		PE	TO39		AØ
11	RCA1A19	40m	7.0 Ø	§J	1.0	500m		4.0	10	10u△♦	4.0Ø	10m	40	250	60M§△	100		DPE	TO39		AØ
12	SDT3501	40m	7.0		2.0	1.0	40	6.0	40	100n	5.0	500m	30		50M			PL	TO5		
13	SDT3502	40m	7.0		2.0	1.0	60	6.0	60	100n	5.0	500m	30		50M			PL	TO5		
14	SDT3503	40m	7.0		2.0	1.0	80	6.0	80	100n	5.0	500m	30		50M			PL	TO5		
15	SDT3504	40m	7.0		2.0	1.0	100	6.0	100	100n	5.0	500m	30		50M			PL	TO5		
16	SDT3505	40m	7.0		2.0	1.0	40	6.0	40	100n	5.0	500m	50	150	50M			PL	TO5		
17	SDT3506	40m	7.0		2.0	1.0	60	6.0	60	100n	5.0	500m	50	150	50M			PL	TO5		
18	SDT3507	40m	7.0		2.0	1.0	80	6.0	80	100n	5.0	500m	50	150	50M			PL	TO5		
19	SDT3508	40m	7.0		2.0	1.0	100	6.0	100	100n	5.0	500m	50	150	50M			PL	TO5		
20	SDT3550	40m	7.0		2.0	1.0	60	6.0	60	1.0m	1.0	250m	30	100	10M				TO5		
21	SDT3551	40m	7.0		2.0	1.0	80	6.0	80	1.0m	1.0	250m	30	100	10M				TO5		
22	SDT3552	40m	7.0		2.0	1.0	40	5.0	40	100u	1.0	500m	20	100	10M				TO5		
23	SDT3553	40m	7.0		2.0	1.0	60	5.0	60	100u	1.0	500m	20	100	10M				TO5		
24	SDT3554	40m	7.0		2.0	1.0	80	5.0	80	100u	1.0	500m	20	100	10M				TO5		
25	SDT3775	40m	7.0		5.0	2.0	40	6.0	40	75u	2.0	2.0	20	60	10M				TO5		
26	SDT3776	40m	7.0		5.0	2.0	60	6.0	60	75u	2.0	2.0	20	60	10M				TO5		
27	SDT3777	40m	7.0		5.0	2.0	80	6.0	80	75u	2.0	2.0	20	60	10M				TO5		
28	SDT3778	40m	7.0		5.0	2.0	40	6.0	40	75u	2.0	2.0	40		10M				TO5		
29	TIP508	40m	1.0	§J	2.0 †	600m	150 †	5.0†	150	1.0m§♦	4.0Ø	1.0	30	120 #	50M§△	750m		PE△	TO39		AØ
30	TIP522	40m	1.0	§J	2.0 †	600m	200 †	5.0†	200	1.0m§♦	4.0Ø	1.0	20	100 #	50M§△			PE△	TO39		AØ
31#	ZT210	40m	1.0	§J	1.0		60	7.0	60 §	250n	10Ø	150m	30	150				PE	TO5		Ø
32#	ZT211	40m	1.0	§J	1.0		90	7.0	85 §	20nØ	10Ø	150m	40	120			70n	PE	TO5		Ø
33#	MC172	44mØ	4.0 Ø	§A	3.0		70	6.0	45	5.0uØ	12Ø	500m	40	300		800m		DPE	T0126	A	
34	2N6094	45m	8.0 Ø	§S	1.0		36 †	4.0†	18	250uØ	5.0Ø	250m	5.0						X106	R	
35	MM5005	45m	1.5	§J	2.0		80	5.0	60	200nØ	2.5Ø	150m	50	250	30M§△	3.3		AN△	TO39	A	
36	MM5006	45m	1.5	§J	2.0		100	5.0	80	200nØ	2.5Ø	200m	50	250	30M§△	3.3		AN△	TO39	A	
37	MM5007	45m	1.5	§J	2.0		120	5.0	100	200nØ	2.5Ø	250m	50	250	30M§△	3.3		AN△	TO39	A	
38	2N2881	50m	8.5 Ø	§J	2.0	1.0	60	10	60		4.0Ø	500m	20	60					TO5		AØ
39	2N2882	50m	8.5 Ø	§J	2.0	1.0	100	10	100		4.0Ø	500m	20	60					TO5		AØ
40	2N3202	50m	8.7 Ø	§C	3.0	1.5	40	10	40	75u#	2.0Ø	1.0	20	60	1.0M§△	300m			TO5		AØ
41	2N3203	50m	8.7 Ø	§C	3.0	1.5	60	10	60	75u#	2.0Ø	1.0	20	60	1.0M§△	300m			TO5		AØ
42	2N3204	50m	8.7 Ø	§C	3.0	1.5	80	10	80	75u#	2.0Ø	1.0	20	60	1.0M§△	300m			TO5		AØ
43	2N3208	50m	8.7 Ø	§C	2.0	1.0	40	10	40	75u#	2.0Ø	500m	20	60	1.0M§△	300m			TO5		AØ
44	2N3774†	50m§	5.0 Ø	§J	1.0	500m	40 †	8.0†	40	500u#♦	2.0Ø	200m	20	60 #	1.0M§△		3.0uØ☑		TO5		AØ
45	2N3775†	50m§	5.0 Ø	§J	1.0	500m	60 †	8.0†	60	500u#♦	2.0Ø	200m	20	60 #	1.0M§△		3.0uØ☑		TO5		AØ
46	2N3776†	50m§	5.0 Ø	§J	1.0	500m	80 †	8.0†	80	500u#♦	2.0Ø	200m	20	60 #	1.0M§△		3.0uØ☑		TO5		AØ
47	2N3777†	50m§	5.0 Ø	§J	1.0	500m	100 †	8.0†	100	500u#♦	2.0Ø	200m	20	60 #	1.0M§△		3.0uØ☑		TO5		AØ
48	2N3778†	50m§	5.0 Ø	§J	1.0	500m	40 †	8.0†	40	500u#♦	2.0Ø	200m	10	40 #	1.0M§△		3.0uØ☑		TO5		AØ
49	2N3779†	50m§	5.0 Ø	§J	1.0	500m	60 †	8.0†	60	500u#♦	2.0Ø	200m	10	40 #	1.0M§△		3.0uØ☑		TO5		AØ
50	2N3780†	50m§	5.0 Ø	§J	1.0	500m	80 †	8.0†	80	500u#♦	2.0Ø	200m	10	40 #	1.0M§△		3.0uØ☑		TO5		AØ
51	2N3781†	50m§	5.0 Ø	§J	1.0	500m	100 †	8.0†	100	500u#♦	2.0Ø	200m	10	40 #	1.0M§△		3.0uØ☑		TO5		AØ
52	2N3782†	50m§	5.0 Ø	§J	3.0	1.0	40 †	8.0†	40	500u#♦	3.0Ø	1.0	10	60 #	1.0M§△		3.0uØ☑		TO5		AØ
53	2N3795†	50m	5.0 Ø	§J	1.0	500m	120	10	120	1.0m#	2.0Ø	10m	12	36	500k§△	20	5.0u		TO5		Ø
54	2N5404†	50m§	1.0 △	§J	5.0	2.0	80 †	6.0†	80	10u#♦	5.0Ø	2.0	20	60	40M§△	1.0	500n☑		TO5		AØ
55	2N5405†	50m§	1.0 △	§J	5.0	2.0	100 †	6.0†	100	10u#♦	5.0Ø	2.0	20	60	40M§△	1.0	500n☑		TO5		AØ
56	2N5406†	50m§	1.0 △	§J	5.0	2.0	80 †	6.0†	80	10u#♦	5.0Ø	2.0	40	120	40M§△	800m	500n☑		TO5		AØ
57	2N5407†	50m§	1.0 △	§J	5.0	2.0	100 †	6.0†	100	10u#♦	5.0Ø	2.0	40	120	40M§△	800m	500n☑		TO5		AØ
58▼#	2SA496	50m	5.0 Ø	♦J	800m	800mØ	40	5.0	30	1.0uØ	2.0Ø	50m	40	240	100M§	1.6		PE	u119	B	
59▼#	2SA505	50m	5.0 Ø	♦J	800m	800 Ø	70	5.0	50	110uØ	2.0Ø	50m	40	240	100M§	1.6		PE	u119	B	
60	D41D10	50m	1.3 #	§J	1.0			5.0	75	100n§	2.0Ø	100m	50	150	150M§		50nØ	†	X51c	F	
61	D41D11	50m	1.3 #	§J	1.0			5.0	75	100n§	2.0Ø	100m	120	360	150M§		50nØ	†	X51c	F	
62▼	D41D13	50m	1.3	§J	1.0			5.0	75	100n§	2.0Ø	100m	50	150	150M§	2.0	50nØ	†	X51c	F	
63▼	D41D14	50m	1.3	§J	1.0			5.0	75	100n§	2.0Ø	100m	120	360	150M§	2.0	50nØ	†	X51c	F	
64	SDT3321	50m	1.0		5.0	2.0	40	6.0	40	.01m	5.0Ø	2.0	40	120	40M§△	.50	.50u	PE△	TO5		
65	SDT3322	50m	1.0		5.0	2.0	60	6.0	60	.01m	5.0Ø	2.0	40	120	40M§△	.50	.50u	PE△	TO5		
66	SDT3323	50m	1.0		5.0	2.0	80	6.0	80	.01m	5.0Ø	2.0	40	120	40M§△	.50	.50u	PE△	TO5		
67	SDT3324	50m	1.0		5.0	2.0	100	6.0	100	.01m	5.0Ø	2.0	40	120	40M§△	.50	.50u	PE△	TO5		
68	SDT3325	50m	1.0		5.0	2.0	40	6.0	40	.01m	5.0Ø	2.0	20	60	40M§△	.50	.50u	PE△	TO5		
69	SDT3326	50m	1.0		5.0	2.0	60	6.0	60	.01m	5.0Ø	2.0	20	60	40M§△	.50	.50u	PE△	TO5		
70	SDT3327	50m	1.0		5.0	2.0	80	6.0	80	.01m	5.0Ø	2.0	20	60	40M†	.60	.50u	PE△	TO5		
71	SDT3328	50m	1.0		5.0	2.0	100	6.0	100	.01m	5.0Ø	2.0	20	60	40M†	.60	.50u	PE△	TO5		
72	SDT3329	50m	1.0		5.0	2.0	120	6.0	120	.01m	5.0Ø	2.0	20	60	40M†	.60	.50u	PE△	TO5		
73	MPSU52	54m	1.0	†J	800m		60	5.0	40	100n#	10Ø	150m	50	300	150M§	2.6		AN†	X81	A	
74	JAN2N3867†	56m	1.0	§S	3.0		40	4.0	40	1.0u#	2.0Ø	1.5	40	200	60M§△	500m	100nØ☑		TO5		AØ
75	JAN2N3868†	56m	1.0	§S	3.0		60	4.0	60	1.0u#	2.0Ø	1.5	30	150	60M§△	500m	100nØ☑		TO5		AØ
76	2N5322†	56m	10 Ø	§J	2.0	1.0	100	7.0	75	100u#	4.0Ø	500m	30	130	50M§△	1.4	100nØ		TO5		AØ
77	2N5323†	56m	10 Ø	§J	2.0	1.0	75	5.0	50	100u#	4.0Ø	500m	40	250	50M§△	2.4	100nØ		TO5		AØ
78	2N5415	56m#	1.0 Ø	§S	1.0	500m	200	4.0	200 ☑	50uØ	10Ø	50m	30	150	15M§△				TO5		AØ
79	2N5416	56m#	1.0 Ø	§S	1.0	500m	350	6.0	300 ☑	50uØ	10Ø	50m	30	120	15M§△				TO5		AØ
80	40595	56m	1.2	§A	2.0	1.0		4.0		10u*	4.0Ø	300m	70	350		2.7		PE	TO5		AØ
81	STIP10	56m#	1.0 Ø	§S	1.0	500m	100	5.0	100 §	3.0u	10Ø	20m	30	200	30M			D	TO5		
82	STIP20	56m#	1.0 Ø	§S	1.0	500m	200	5.0	200 §	4.0u	10Ø	20m	30	200	30M			D	TO5		
83	STIP30	56m#	1.0 Ø	§S	1.0	500m	300	5.0	300 §	4.0u	10Ø	20m	25	200	30M			D	TO5		
84	STIP40	56m#	1.0 Ø	§S	1.0	500m	400	5.0	400 #	4.0u	10Ø	20m	25	200	30M			D	TO5		
85	TRSP15X	56m	10 Ø	§A	1.0	500m	175	12	150	100u	10Ø	30m	900	40k	25M§△				TO5		
86	TRSP20X	56m	10 Ø	§A	1.0	500m	200	12	200	100u	10Ø	30m	900	40k	25M§△				TO5		
87	TRSP25X	56m	10 Ø	§A	1.0	500m	250	12	250	100u	10Ø	30m	900	40k	25M§△				TO5		
88	TRSP30X	56m	10 Ø	§A	1.0	500m	300	12	300	100u	10Ø	30m	900	40k	25M§△				TO5		
89	TRSP3743	56m	2.0	§	1.0		300	5.0	300	300n	10	30m	25	250	30M				MD14		
90	TRSP4000	56m	1.0	§	1.0		100	4.0	100	1.0u	10	10m	20	250	20M				TO5		
91	TRSP4001	56m	1.0	§	1.0		150	4.0	150	1.0u	10	10m	20	250	20M				TO5		
92	TRSP4002	56m	1.0	§	1.0	500m	200	4.0	200	3.0u	10	10m	20	250	20M				TO5		
93	TRSP4003	56m	1.0	§	1.0	500m	250	4.0	250	3.0u	10	10m	20	250	20M				TO5		
94	TRSP4930	56m	2.0	§	1.0		200	4.0	200	1.0u	10	10m	20	200	20M				MD14		
95	TRSP4931	56m	2.0	§	1.0		250	4.0	200	1.0u	10	10m	20	200	20M				MD14		
96	TRSP5281	56m	2.0	§	1.0		175	6.0	150	1.0u	10	10m	30	200	20M				MD14		
97	TRSP5282	56m	2.0	§	1.0		325	6.0	300	1.0u	10	10m	30	200	20M				MD14		
98	TRSP5415	56m	2.0	§	1.0	500m		4.0	200	50u△	10	50m	30	150	20M				MD14		
99	TRSP5416	56m	2.0	§	1.0	500m	350	6.0	300	50u△	10	50m	30	120	20M				MD14		
100	2N5781	57m	10 Ø	§J	3.5	1.0	80	5.0	80	1.0m#	2.0Ø	1.0	20	100	8.0M§△	625m			TO5		P
101	2N5782	57m	10 Ø	§J	3.5	1.0	65	5.0	65	1.0m#	2.0Ø	1.2	20	100	8.0M§△	625m			TO5		P
102	2N5783	57m	10 Ø	§J	3.5	1.0	45	3.5	45	1.0m#	2.0Ø	1.6	20	100	8.0M§△	625m			TO5		P
103	2N6190†	57m	10 Ø	§J	5.0	1.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	30	120 #	30M§△		100nØ☑		TO39		AØ
104	2N6191†	57m	10 Ø	§J	5.0	1.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	60	240 #	30M§△		100nØ☑		TO39		AØ
105	2N6192†	57m	10 Ø	§J	5.0	1.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	30	120 #	30M§△		100nØ☑		TO39		AØ
106	2N6193†	57m	10 Ø	§J	5.0	1.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	60	240 #	30M§△		100nØ☑		TO39		AØ
107▼	40595L	57m	1.2	§A	2.0	1.0		4.0	95 §☑	10u*	4.0Ø	300m	70	350		2.7			TO5		AØ
108▼	40595S	57m	1.2	§A	2.0	1.0		4.0	95 §☑	10u*	4.0Ø	300m	70	350		2.7			TO39		AØ
109#	BSS17	57m	10 Ø	§J	2.0	1.0	100	7.0	75	500nØ	4.0Ø	500m	30	130 #	50M§△		100nØ☑	PE△	TO39		AØ
110#	BSS18	57m	10 Ø	§J	2.0	1.0	75	5.0	50	5.0uØ	4.0Ø	500m	40	250 #	50M§△		100nØ☑	PE△	TO39		AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	MJ5415	57m	10 Ø	§J	1.0	500m	200	4.0	200	50uØ♦	10Ø	5.0	30	150 #	15M§Δ	50 #			TO39	A
2	MJ5416	57m	10 Ø	§J	1.0	500m	350	7.0	300	50uØ♦	10Ø	5.0	30	120 #	15M§Δ	50 #			TO39	A
3	MJ8100†	57m	10 Ø	§J	5.0	1.0	60	5.0	60	10u	2.0Ø	2.0	25	180 #	30M§Δ		100nØ		TO39	A
4	MJ8101†	57m	10 Ø	§J	5.0	1.0	80	5.0	80	10u	2.0Ø	2.0	25	180 #	30M§Δ		100nØ		TO39	A
5	MM4005	57m	1.0	§J	1.0		60	3.0	60	100nØ	1.0Ø	1.0m	40		50M§Δ			AN	TO39	A
6	MM4006	57m	1.0	§J	1.0		80	3.0	80	100nØ	1.0Ø	1.0m	40		50M§Δ			AN	TO39	A
7	MM4007	57m	1.0	§J	1.0		100	3.0	100	100nØ	1.0Ø	1.0m	40		50M§Δ			AN	TO39	A
8	RCA1A04	57m	10 Ø	§J	2.0	1.0	95	4.0	95 §	10u*♦	4.0Ø	300m	70	300	50M§Δ	2.6		PE	TO39	AØ
9	RCA1A10	57m	10 Ø	§J	1.0	500m		6.0	175	10uΔ♦	10Ø	10m	40	250	15M§Δ	200		D	TO39	AØ
10	RCA1A16	57m	10 Ø	§J	1.0	100m		5.0	100	10uΔ♦	10Ø	10m	40	250	15M§Δ	100		E	TO39	AØ
11	STIP105	57m#	2.0 Ø	§S	1.0	500m	100	5.0	100 §	3.0u	10Ø	20m	30	200	30M			D	MD14	
12	STIP205	57m#	2.0 Ø	§S	1.0	500m	200	5.0	200 §	4.0u	10Ø	20m	30	200	30M			D	MD14	
13	STIP305	57m#	2.0 Ø	§S	1.0	500m	300	5.0	300 §	4.0u	10Ø	20m	25	200	30M			D	MD14	
14	STIP405	57m#	2.0 Ø	§S	1.0	500m	400	5.0	400 §	4.0u	10Ø	20m	25	200	30M			D	MD14	
15	2N5151	60m	1.0	§J	5.0	2.5	100 †	5.5†	80	1.0m#♦	5.0Ø	2.5	30	90 #	60M§Δ				TO39	AØ
16	2N5153	60m	1.0	§J	5.0	2.5	100 †	5.5†	80	1.0m#♦	5.0Ø	2.5	70	200 #	70M§Δ				TO39	AØ
17	TIP524	60m	1.0	§J	5 †	2.0	200 †	5.0†	200	1.0m§♦	4.0Ø	2.5	20	100 #	40M§Δ			PEΔ	TO39	AØ
18▼	D41E1	64m	1.6	§J	2.0			5.0	30	100n§	2.0Ø	100m	50		175M§	1.0	180nØ	†	X51c	F
19▼	D41E5	64m	1.6	§J	2.0			5.0	60	100n§	2.0Ø	100m	50		175M§	1.0	180nØ	†	X51c	F
20▼	D41E7	64m	1.6	§J	2.0			5.0	80	100n§	2.0Ø	100m	50		175M§	1.0	180nØ	†	X51c	F
21	2N3660	66m	5.0 Ø	§S	1.5		40	5.0	30	100nØ	10Ø	500m	25	100	25M§Δ	2.4			TO5	AØ
22	2N3661	66m	5.0 Ø	§S	1.5		60	5.0	50	100nØ	10Ø	500m	25	100	25M§Δ	2.4			TO5	AØ
23#	2SA547	66m	10 Ø	§J	1.0		70	5.0	60	3.0uØ	3.0Ø	1.0	25		80M§			PE	TO37	AØ
24#	2SA547A	66m	10 Ø	§J	1.0		90	5.0	80	3.0uØ	3.0Ø	1.0	25		80M§			PE	TO37	AØ
25	TRSP15X5	66m	2.0	§J	1.0	500m	175	12	150	100n	10Ø	30m	900	40k	25M§Δ				MD14	
26	TRSP20X5	66m	2.0	§J	1.0	500m	200	12	200	100n	10Ø	30m	900	40k	25M§Δ				MD14	
27	TRSP25X5	66m	2.0	§J	1.0	500m	250	12	250	100n	10Ø	30m	900	40k	25M§Δ				MD14	
28	TRSP30X5	66m	2.0	§J	1.0	500m	300	12	300	100n	10Ø	30m	900	40k	25M§Δ				MD14	
29	2N1084	67m		§J	2.0	.20	60	5.0	50	10m	10	.50	20	60	25k†	3.0			TO5	AØ
30#	2SA623†	70m	7.0 Ø	♦J	1.5		35	5.0	20	1.0 Ø	4.0Ø	500m	35 #	300 #	70M§	1.0	200nØ	PE†	X51b	P
31#	2SA624†	70m	7.0 Ø	♦J	1.5		50	5.0	40	1.0 Ø	4.0Ø	500m	35 #	300 #	70M§	1.0	200nØ	PE†	X51b	P
32#	2SA607	71mØ	9.0 Ø	§	700m		100	5.0	80	3.0uØ	5.0Ø	200m	40	200 #	50M§Δ			PE	MD32	AØ
33#	2SA606	72mØ	9.0 Ø	§J	700m		100	5.0	80	3.0uØ	5.0Ø	200m	30 #	100 #				PE	TO5	
34	D41D1†	72m	1.2	§S	1.0			5.0	30	100n§	2.0Ø	100m	50	150	150M§	1.0	50nØ	†	X51c	F
35	D41D2†	72m	1.2	§S	1.0			5.0	30	100n§	2.0Ø	100m	120	300	150M§	1.0	50nØ	†	X51c	F
36	D41D4†	72m	1.2	§S	1.0			5.0	45	100n§	2.0Ø	100m	50	150	150M§	1.0	50nØ	†	X51c	F
37	D41D5†	72m	1.2	§S	1.0			5.0	45	100n§	2.0Ø	100m	120	360	150M§	1.0	50nØ	†	X51c	F
38	D41D7†	72m	1.2	§S	1.0			5.0	60	100n§	2.0Ø	100m	50	150	150M§	2.0	50nØ	†	X51c	F
39	D41D8†	72m	1.2	§S	1.0			5.0	60	100n§	2.0Ø	100m	120	360	150M§	2.0	50nØ	†	X51c	F
40	MPSU51	72m	1.0	†J	2.0		40	5.0	30	100nØ	1.0Ø	10m	55 #		50M§Δ			AN	X81	AØ
41	MPSU51A	72m	1.0	†J	2.0		50	5.0	40	100nØ	1.0Ø	10m	55 #		50M§Δ			AN	X81	AØ
42	ST75004†	76m#	11 Ø#	§J	2.0		80	8.0	80 *	10uØ	10Ø	1.0	30	120 #	20M§Δ		500nØ	PL	TO5	
43	ST75005†	76m#	11 Ø#	§J	2.0		100	8.0	100 *	10uØ	10Ø	1.0	30	120 #	20M§Δ		500nØ	PL	TO5	
44	ST75006†	76m#	11 Ø#	§J	2.0		120	8.0	120 *	10uØ	10Ø	1.0	30	120 #	20M§Δ		500nØ	PL	TO5	
45#	2SA634	80m	10 Ø	§	2.0		40	5.0	30	100u	5.0Ø	1.0	40	250 #	60M§			E	Y202a	DØ
46#	2SA636	80m	10 Ø	§	1.0		70	5.0	45	100u	5.0Ø	500m	40	250 #	50M§			E	Y202a	DØ
47▼#	2SA816	80m	1.5	§J	750m	750mØ	80	5.0	80	500nØ	2.0Ø	150m	70	240	100M§	1.0		PE	X121	D
48▼#	2SB523	80m	10 Ø	§J	2.0		40	5.0	20	1.0uØ	4.0Ø	500m	55 #	300 #	70M§			PE†		
49▼#	2SB524	80m	10 Ø	§J	1.5		60	5.0	40	1.0uØ	4.0Ø	500m	55 #	300 #	70M§			PE†		
50▼#	2SB526	80m	10 Ø	§J	800m		90	5.0	80	10uØ	4.0Ø	300m	55 #	300 #	70M§			PE†		
51▼#	2SB527	80m	10 Ø	§J	800m		110	5.0	100	10uØ	4.0Ø	300m	55 #	300 #	70M§			PE†		
52▼#	2SB528	80m	10 Ø	§J	800m		130	5.0	120	10uØ	4.0Ø	300m	55 #	300 #	70M§			PE†		
53▼#	2SB529	80m	10 Ø	§J	2.0		40	5.0	20	1.0uØ	4.0Ø	500m	55 #	300 #	70M§			PE†		
54▼	D41K1	80m	1.2	§J	1.5			13	30	500n§	5.0Ø	200m	10k		75M§	1.0		†	X51c	F
55▼	D41K2	80m	1.2	§J	1.5			13	50	500n§	5.0Ø	200m	10k		75M§	1.0		†	X51c	F
56	MPSU55	80m	1.0	§J	2.0		60	4.0	60	100nØ	1.0Ø	50m	80 #	160 Ø	100M§			AN	X81	AØ
57	MPSU56	80m	1.0	§J	2.0		80	4.0	80	100nØ	1.0Ø	50m	80 #	160 Ø	100M§			AN	X81	AØ
58	MPSU57	80m	1.0	§J	2.0		100	4.0	100	100nØ	1.0Ø	50m	60	140 Ø	100M§	2.0		AN	X81	AØ
59	MPSU60	80m	1.0	§J	500m		300	5.0	300	200nØ	10Ø	1.0m	25		60M§Δ	37		AN	X81	AØ
60	MPSU95	80m	1.0	§J	2.0		50	12	40	100nØ	5.0Ø	200m	25k	150k	320M§	1.5			X81	AØ
61♦	NSD202	83m	1.7	§J	1.0		60	5.0	45	50nØ	5.0Ø	100m	50	150	150M§			PL†	Y202a	A
62♦	NSD203	83m	1.7	§J	1.0		60	5.0	45	50nØ	5.0Ø	100m	120	350	150M§			PL†	Y202a	A
63♦	NSD204	83m	1.7	§J	1.0		80	5.0	80	50nØ	5.0Ø	100m	50	150	150M§			PL†	Y202a	A
64♦	NSD205	83m	1.7	§J	1.0		80	5.0	80	50nØ	5.0Ø	100m	120	350	150M§			PL†	Y202a	A
65♦	NSD206	83m	1.7	§J	1.0		100	5.0	100	50nØ	5.0Ø	100m	50	150	150M§			PL†	Y202a	A
66♦	2N6406	100m	12 Ø	§J	2.0	1.0	80 †	6.0†	60	500uΔ♦	2.0Ø	100m	50	250 #	50M§Δ	1.0 #			X58	DØ
67♦	2N6407	100m	12 Ø	§J	2.0	1.0	100 †	6.0†	80	500uΔ♦	2.0Ø	100m	50	250 #	50M§Δ	1.0 #			X58	DØ
68#	2SB504	100m	1.0	§	3.0 #	500m	80	10	60	1.0uØ	2.0Ø	500m	40 #	300 #		1.0 #		PE	TO39	AØ
69#	2SB505	100m	1.0	§	3.0 #	500m	80	10	60	1.0uØ	2.0Ø	500m	40 #	300 #		1.0 #		PE	MD32	
70#	BD136Δ	100mØ	6.5 ØØ	♦J	500m	100m	45	5.0	45	100nØ	1.0Ø	150m	40	250	50M§Δ			PE†	TO126	BØ
71	BD136Ø	100m	6.5 ØØ	♦J	500m		45	5.0	45	100nØ	2.0Ø	150m	40	250	75M§	1.0		PE	X100	BØ
72#	BD138Δ	100mØ	6.5 ØØ	♦J	500m	100m	60	5.0	60	100nØ	1.0Ø	150m	40	160	50M§Δ			PE†	TO126	BØ
73	BD138Ø	100m	6.5 ØØ	♦J	500m		60	5.0	60	100nØ	2.0Ø	150m	40	160	75M§	1.0		PE	X100	BØ
74	BD140Ø	100m	6.5 ØØ	♦J	500m			5.0	80	100nØ	2.0Ø	150m	40	160	75M§	1.0		PE	X100	BØ
75	D43C1†	100m	2.1	§J	3.0			5.0	30	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	X51c	BØ
76	D43C2†	100m	2.1	§J	3.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X51c	BØ
77	D43C3†	100m	2.1	§J	3.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X51c	BØ
78	D43C4†	100m	2.1	§J	3.0			5.0	45	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	X51c	BØ
79	D43C5†	100m	2.1	§J	3.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X51c	BØ
80	D43C6†	100m	2.1	§J	3.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X51c	BØ
81	D43C7†	100m	2.1	§J	3.0			5.0	60	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	X51c	BØ
82	D43C8†	100m	2.1	§J	3.0			5.0	60	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X51c	BØ
83	D43C9	100m	2.1	§J	3.0			5.0	60	10u§	1.0Ø	200m	40		40M§	500m	50nØ	†	X51c	BØ
84	D43C10	100m	2.1	§J	3.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X51c	BØ
85	D43C11	100m	2.1	§J	3.0			5.0	80	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	X51c	BØ
86▼	D43C12	100m	2.1	§J	3.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X51c	B
87	MJE170	100m	1.5	§J	3.0	1.0	60	7.0	40	100n	1.0Ø	100m	50	250	50M§Δ	600m		Δ	U116	B
88	MJE171	100m	1.5	§J	3.0	1.0	80	7.0	60	100n	1.0Ø	100m	50	250	50M§Δ	600m		Δ	U116	B
89	MJE172	100m	1.5	§J	3.0	1.0	100	7.0	80	100n	1.0Ø	100m	50	250	50M§Δ	600m		Δ	U116	B
90	SDT3575	100m	17		2.0	1.0	40	6.0	40	100u	1.0	250m	30	150	10M				TO66	
91	SDT3576	100m	17		2.0	1.0	60	6.0	60	100u	1.0	250m	30	150	10M				TO66	
92	SDT3577	100m	17		2.0	1.0	80	6.0	80	100u	1.0	250m	30	150	10M				TO66	
93	SDT3578	100m	17		2.0	1.0	40	5.0	30	100n	10	500m	25	100	40M			PL	TO66	
94	SDT3579	100m	17		2.0	1.0	60	5.0	50	100n	10	500m	25	100	40M			PL	TO66	
95	2N4387	114m	20 Ø	§J	2.0	300m	40	5.0	40	10u#♦	10Ø	500m	25	100	25M§Δ	3.0			TO66	CØ
96	2N4388	114m	20 Ø	§J	2.0	300m	60	5.0	60	10u#♦	10Ø	500m	25	100	25M§Δ	3.0			TO66	CØ
97	2N5161	114m	20 Ø	§S	1.5		60	4.0	40	100uØ	5.0Ø	250m	10						TO60	AØ
98	2N5597	114m	20	§J	2.0	1.0	80	5.5	60	1.0m#	5.0Ø	1.0	70	200 #	60M§Δ				TO66	CØ
99	2N5599	114m	20	§J	2.0	1.0	100	5.5	80	1.0m#	5.0Ø	1.0	30	90 #	50M§Δ				TO66	CØ
100	2N5601	114m	20	§J	2.0	1.0	100	5.5	80	1.0m#	5.0Ø	1.0	70	200 #	60M§Δ				TO66	CØ
101	2N5603	114m	20	§J	2.0	1.0	120	5.5	100	1.0m#	5.0Ø	1.0	30	90 #	50M§Δ				TO66	CØ
102	2N6095	114m	20 Ø	§S	2.5		36 †	4.0†	18	500uØ	5.0Ø	500m	15						X106	R
103♦	2N6411	120m	15 Ø	§J	4.0	1.0	40 †	6.0†	25	100uΔ♦	2.0Ø	2.0	45	180 #	50M§Δ	375m#			X58	DØ
104♦	2N6414	120m	15 Ø	§J	4.0	1.0	60 †	6.0†	40	100uΔ♦	3.0Ø	200m	40	250 #	50M§Δ	625m#			X58	DØ
105♦	2N6415	120m	15 Ø	§J	4.0	1.0	80 †	6.0†	60	100uΔ♦	3.0Ø	200m	40	250 #	50M§Δ	625m#			X58	DØ
106♦	2N6418	120m	15 Ø	§J	3.0	1.0	80 †	6.0†	80	100uΔ♦	3.0Ø	200m	40	250 #	40M§Δ	1.0 #			X58	DØ
107♦	2N6419	120m	15 Ø	§J	3.0	1.0	100 †	6.0†	100	100uΔ♦	3.0Ø	200m	40	250 #	40M§Δ	1.0 #			X58	DØ
108#	2SA748	120m	15	J§	3.0 #		70	5.0	50	1.0u	5.0Ø	1.0	30 †	220 †	120M§			PE	X121	D
109	MJE210	120m	1.5	§J	5.0	1.0	40	8.0	25	100n	1.0Ø	2.0	45	180 #	65M§Δ	600m			U116	B
110	MJE230	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	40	200	50M§Δ	600m		Δ	U116	B

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	LEAD CONFIG.
1	MJE231	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	40	150	50M§Δ	600m		Δ	U116	B
2	MJE232	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	25		50M§Δ	600m		Δ	U116	B
3	MJE233	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	40	200	50M§Δ	600m		Δ	U116	B
4	MJE234	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	40	150	50M§Δ	600m		Δ	U116	B
5	MJE235	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	25		50M§Δ	600m		Δ	U116	B
6	MJE250	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	40	200	40M§Δ	600m		Δ	U116	B
7	MJE251	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	40	120	40M§Δ	600m		Δ	U116	B
8	MJE252	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	25		40M§Δ	60m		Δ	U116	B
9	MJE253	120m	1.5	§J	4.0	1.0	100	7.0	100	100n	1.0Ø	200m	40	120	40M§Δ	600m		Δ	U116	B
10	MJE254	120m	1.5	§J	4.0	1.0	100	7.0	100	100n	1.0Ø	200m	25		40M§Δ	600m		Δ	U116	B
11▼	MJE2150	120m	15 Ø	§J	5.0			4.0	25 §		1.0Ø	1.8	50						u116	B
12	2N5100	133m	10 Ø	§A	1.0	500m	450	6.0	400	5.0nØ	15Ø	100m	20	200	20M§Δ	120			MD14	AØ
13▼	2N6424	133m	20 Ø	§J	250m	500m	250	6.0	225	250uΔ♦	10Ø	100m	40	200 #	10M§Δ	10 #			TO66	CØ
14▼	2N6425	133m	20 Ø	§J	250m	500m	325	6.0	300	250uΔ♦	10Ø	100m	40	200 #	10M§Δ	10 #			TO66	CØ
15	SRSP4296	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	50	150	5.0M§Δ			EM	TO66	CØ
16	SRSP4297	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	75	300	5.0M§Δ			EM	TO66	CØ
17	SRSP4298	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	25	75	5.0M§Δ			EM	TO66	CØ
18	SRSP4299	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	75	150	5.0M§Δ			EM	TO66	CØ
19	TRSP2006	133m	20 Ø	§	1.0	500m	200	6.0	200 §	100u	10Ø	50m	30	300	25M				TO66	
20	TRSP3006	133m	20 Ø	§	1.0	500m	300	6.0	300 §	100u	10Ø	50m	30	300	25M				TO66	
21	TRSP4006	133m	20 Ø	§	1.0	500m	400	6.0	400 §	100u	10Ø	50m	30	300	25M				TO66	
22	TRSP4016S	133m	20 Ø	§	1.0	500m	450	6.0	400	100u	10Ø	50m	30	300	2.5M				TO66	
23	TRSP4296	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	50	150	20M§Δ				TO66	
24	TRSP4297	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	75	300	20M§Δ				TO66	
25	TRSP4298	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	75	150	20M§Δ				TO66	
26	TRSP4299	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	75	150	20M§Δ				TO66	
27	TRSP4506	133m	20 Ø	§	1.0	500m	450	6.0	450 §	100u	10Ø	50m	30	300	25M				TO66	
28	TRSP5006	133m	20 Ø	§	1.0	500m	500	6.0	500 §	100u	10Ø	20m	30	300	25M				TO66	
29	TRSP6006	133m	20 Ø	§	1.0	500m	600	6.0	600 §	100u	10Ø	20m	30	300	25M				TO66	
30	TRSP7006	133m	20 Ø	§	1.0	500m	700	6.0	700 §	100u	10Ø	20m	30	300	25M				TO66	
31	TRSP8006	133m	20 Ø	§	1.0	500m	800	6.0	800 §	100u	10Ø	20m	30	300	25M				TO66	
32	2N2875	138m	20 Ø	§C	2.0	200m	60	5.0	50	1.0uØ	6.0Ø	1.5	15	60 #	25MΔ	3.0		PL	MT21	
33#	BD227	142m	12 Ø	§J	1.5		45	5.0	45	100nØ	2.0Ø	150m	40	250	50M§	800m		PE†	TO126	BØ
34#	BD229	142m	12 Ø	§J	1.5		60	5.0	60	100nØ	2.0Ø	150m	40	160	50M§	800m		PE†	TO126	BØ
35#	BD231	142m	12 Ø	§J	1.5		100	5.0	80	100nØ	2.0Ø	150m	40	160	50M§	800m		PE†	TO126	BØ
36#	BDX16	142m	25 Ø	§J	3.0 †	2.0	160 †	7.0	140	1.0m#♦	4.0Ø	500m	20	80	800k§Δ	2.0		HΔ	TO66	CØ
37	MJ2253	142m	25 Ø	§J	3.0	500m	70	7.0	60	1.0m	4.0Ø	250	20	100 #	3.0M§	800m			TO66	CØ
38	MJ2254	142m	25 Ø	§J	3.0	500m	90	7.0	80	1.0m	4.0Ø	250	20	100 #	3.0M§	800m			TO66	CØ
39	MJ3701	142m	25 Ø	§J	3.0	500m	50	5.0	40	1.0m	4.0Ø	250	20	100 #	3.0M§	800m			TO66	CØ
40	2N3740	143m	25 Ø	§J	1.0	2.0	60 †	7.0†	60	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
41♦	JAN2N3740†	143m	25 Ø	§J	4.0	2.0	60 †	7.0	60 *	100n	1.0Ø	250m	30	100 #	5.0M§Δ	600m#	400nØØ		TO66	CØ
42	2N3740A	143m	25 Ø	§J	1.0	2.0	60 †	7.0†	60	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
43	2N3741	143m	25 Ø	§J	1.0	2.0	80 †	7.0†	80	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
44♦	JAN2N3741†	143m	25 Ø	§J	4.0	2.0	80	7.0	80 *	100n	1.0Ø	250m	30	100 #	5.0M§Δ	600m#	400nØØ		TO66	CØ
45	2N3741A	143m	25 Ø	§J	1.0	2.0	80 †	7.0†	80	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
46	2N4898	143m	25 Ø	§J	1.0	1.0	40 †	5.0†	40	100uØ♦	1.0Ø	500m	20	100 #	30kΔ				TO66	CØ
47	2N4899	143m	25 Ø	§J	1.0	1.0	60 †	5.0†	60	100uØ♦	1.0Ø	500m	20	100 #	30kΔ				TO66	CØ
48	2N4900	143m	25 Ø	§J	1.0	1.0	80 †	5.0†	80	100uØ♦	1.0Ø	500m	100	100 #	30kΔ				TO66	CØ
49	2N5605	143m	25	§J	5.0	2.0	80	5.5	60	1.0m#	5.0Ø	2.5	70	200 #	70M§Δ				TO66	CØ
50	2N5607	143m	25	§J	5.0	2.0	100	5.5	80	1.0m#	5.0Ø	2.5	30	90 #	60M§Δ				TO66	CØ
51	2N5609	143m	25	§J	5.0	2.0	100	5.5	80	1.0m#	5.0Ø	2.5	70	200 #	70M§Δ				TO66	CØ
52	2N5611	143m	25	§J	5.0	2.0	120	5.5	100	1.0m#	5.0Ø	2.5	30	90 #	60M§Δ				TO66	CØ
53	2N5333	150m	1.0	§J	2.0	1.0	100	6.0	80	10u§	4.0Ø	1.0	30	120 #	30M§Δ				TO5	AØ
54#	BDY70	150m	1.0	§J	2.0	1.0	100	4.0	80	50uΔ	4.0Ø	1.0	30	200	30M§			PE	TO5	
55	2N5676	160m$	2.0	§J	2.0	500m	125 †	6.0†	100	100nØ♦	5.0Ø	500m	50	150 #	50M§Δ				TO66	CØ
56#	2SA754	160m	20 Ø	$	2.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320 *	50M§			D	TO220	B
57#	2SA755	160m	20 Ø	$	2.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320 *	50M§			D	TO220	B
58#	2SA766	160m	20	§J	1.2 #		150	5.0	150 §	30u	5.0Ø	100m	30	150				DM	TO66	CØ
59#	2SB536	160m	20 Ø	$	1.5		140	5.0	120	1.0u	5.0Ø	300m	40	250 #				E	Y220b	DØ
60#	2SB537	160m	20 Ø	$	1.5		140	5.0	120	1.0u	5.0Ø	300m	40	250 #				E	Y220a	DØ
61▼#	2SB546	160m	20 Ø	$	2.0		200	5.0	150	50uØ	10Ø	400m	40	200				ME	Y220a	DØ
62▼#	2SB547	160m	20 Ø	$	2.0		200	5.0	150	50uØ	10Ø	400m	40	200				ME	Y220b	DØ
63#	BD166	160m	20 Ø	§J	1.5	500m	45	5.0	45	100u	2.0Ø	150m	40		3.0M§Δ	1.0		†	TO126	BØ
64#	BD168	160m	20 Ø	§J	1.5	500m	60	5.0	60	100u	2.0Ø	150m	40		3.0M§Δ	1.0		†	TO126	BØ
65#	BD170	160m	20 Ø	§J	1.5	500m	80	5.0	80	100u	2.0Ø	150m	40		3.0M§Δ	1.0		†	TO126	BØ
66	MJE350	160m	20 Ø	§J	500m			3.0	300	100u	10Ø	50m	30	240				†	U116	B
67	MJE710	160m	1.2	§J	1.5	500m	40	5.0	40	500uΔ	1.0Ø	150m	40			1.0			X58c	B
68	MJE711	160m	1.2	§J	1.5	500m	60	5.0	60	500uΔ	1.0Ø	150m	40			1.0			X58c	B
69	MJE712	160m	1.2	§J	1.5	500m	80	5.0	80	500uΔ	1.0Ø	150m	40			1.0			X58c	B
70▼	PT2516	160m	20 Ø	S	5.0	2.0	40	8.0	30	100m	5.0	1.0	20		100M§			PE	X51c	B
71▼	PT2517	160m	20 Ø	S	5.0	2.0	55	8.0	45	100m	5.0	1.0	20		100M§			PE	X51c	B
72▼	PT2518	160m	20 Ø	S	5.0	2.0	70	8.0	60	100m	5.0	1.0	20		100M§			PE	X51c	B
73▼	PT2519	160m	20 Ø	S	5.0	2.0	90	8.0	80	100m	5.0	1.0	20		100M§			PE	X51c	B
74	SDT3701	160m	28		5.0	1.0	40	6.0	40	1.0m	1.5	1.0	25	180	60M			PL	TO66	
75	SDT3702	160m	28		5.0	1.0	60	6.0	60	1.0m	1.5	1.0	25	180	60M			PL	TO66	
76	SDT3703	160m	28		5.0	1.0	40	5.0	40	100u	2.0	1.0	20	80	10M				TO66	
77	SDT3704	160m	28		5.0	1.0	60	5.0	60	100u	2.0	1.0	20	80	10M				TO66	
78	SDT3705	160m	28		5.0	1.0	80	5.0	80	100u	2.0	1.0	20	80	10M				TO66	
79	SDT3706	160m	28		5.0	1.0	30	4.0	30	200u	2.0	1.0	20	60	60M			PL	TO66	
80	SDT3707	160m	28		5.0	1.0	45	4.0	45	200u	2.0	1.0	20	60	60M			PL	TO66	
81	SDT3708	160m	28		5.0	1.0	60	4.0	60	200u	2.0	1.0	20	60	60M			PL	TO66	
82	SDT3709	160m	28		5.0	1.0	30	4.0	30	200u	2.0	1.0	50	180	60M			PL	TO66	
83	SDT3710	160m	28		5.0	1.0	45	4.0	45	200u	2.0	1.0	50	180	60M			PL	TO66	
84	SDT3711	160m	28		5.0	1.0	60	4.0	60	200u	2.0	1.0	50	180	60M			PL	TO66	
85	SDT3712	160m	28		5.0	1.0	40	6.0	40	75u	2.0	2.0	20	60	10M				TO66	
86	SDT3713	160m	28		5.0	1.0	60	6.0	60	75u	2.0	2.0	20	60	10M				TO66	
87	SDT3714	160m	28		5.0	1.0	80	6.0	80	75u	2.0	2.0	20	60	10M				TO66	
88	SDT3715	160m	28		5.0	1.0	40	6.0	40	75u	2.0	2.0	20	60	10M				TO66	
89	SDT3716	160m	28		5.0	1.0	40	6.0	40	1.0m	3.0	1.0	12	36	10M				TO66	
90	SDT3717	160m	28		5.0	1.0	60	6.0	60	1.0m	3.0	1.0	12	36	10M				TO66	
91	SDT3718	160m	28		5.0	1.0	80	6.0	80	1.0m	3.0	1.0	12	36	10M				TO66	
92	SDT3719	160m	28		5.0	1.0	100	6.0	100	1.0m	3.0	1.0	12	36	10M				TO66	
93	SDT3720	160m	28		5.0	1.0	40	6.0	40	1.0m	3.0	1.0	40	36	10M				TO66	
94	SDT3721	160m	28		5.0	1.0	40	6.0	40	1.0m	3.0	2.0	10	30	10M				TO66	
95	SDT3722	160m	28		5.0	1.0	60	6.0	60	1.0m	3.0	2.0	10	30	10M				TO66	
96	SDT3723	160m	28		5.0	1.0	80	6.0	80	1.0m	3.0	2.0	10	30	10M				TO66	
97	SDT3724	160m	28		5.0	1.0	100	6.0	100	1.0m	3.0	2.0	10	30	10M				TO66	
98	SDT3725	160m	28		5.0	1.0	40	6.0	40	1.0m	3.0	2.0	40		10M				TO66	
99	SDT3726	160m	28		5.0	1.0	40	5.0	40	100u	2.0	2.5	25	100	10M				TO66	
100	SDT3727	160m	28		5.0	1.0	60	5.0	60	100u	2.0	2.5	25	100	10M				TO66	
101	SDT3728	160m	28		5.0	1.0	80	5.0	80	100u	2.0	2.5	25	100	10M				TO66	
102	SDT3729	160m	28		5.0	1.0	40	6.0	40	1.0m	3.0	3.0	10	30	10M				TO66	
103	SDT3730	160m	28		5.0	1.0	60	6.0	60	1.0m	3.0	3.0	10	30	10M				TO66	
104	SDT3731	160m	28		5.0	1.0	80	6.0	80	1.0m	3.0	3.0	10	30	10M				TO66	
105	SDT3732	160m	28		5.0	1.0	100	6.0	100	1.0m	3.0	3.0	10	30	10M				TO66	
106	SDT3733	160m	28		5.0	1.0	40	6.0	40	1.0m	3.0	3.0	40		10M				TO66	
107	2N3021†	165m	25 Ø	§C	3.0	500m	30	4.0	30	200u#	2.0Ø	1.0	20	60	60M§Δ	500m	100nØ		TO3	CØ
108	2N3022†	165m	25 Ø	§C	3.0	500m	45	4.0	45	200u#	2.0Ø	1.0	20	60	60M§Δ	500m	100nØ		TO3	CØ
109	2N3023†	165m	25 Ø	§C	3.0	500m	60	4.0	60	200u#	2.0Ø	1.0	20	60	60M§Δ	500m	100nØ		TO3	CØ
110	2N3024†	165m	25 Ø	§C	3.0	500m	30	4.0	30	200u#	2.0Ø	1.0	50	180	60M§Δ	330m	100nØ		TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	2N3025†	165m	25 Ø	§C	3.0	500m	45	4.0	45	200u#	2.0Ø	1.0	50	180	60M§△	330m	100nØ		TO3	CØ
2	2N3026†	165m	25 Ø	§C	3.0	500m	60	4.0	60	200u#	2.0Ø	1.0	50	180	60M§△	330m	100nØ		TO3	CØ
3#	2SA795	165m♦	10	§J	250m		150	5.0	150	30u	10Ø	100m	60	240				PL	TO126	B
4#	BD132	166mØ	15	§J	3.0	500m#	45	4.0	45	5.0uØ	12Ø	500m	40		60M§	800m		PE	TO126	DØ
5#	BDX14	166m	29 Ø	§J	4.0 †	2.0	90 †	7.0	55	1.0m#♦	4.0Ø	500m	25	100	800k§△	2.0		HΔ	TO66	CØ
6#	NKT4054	166m	29 Ø	§J	4.0		90	7.0	55		4.0Ø	500mØ	25	100	800k§			PL	TO66	AØ
7	SDT3509	166m	30		2.0	1.0	40	6.0	40	100n	5.0	500m	30		50M			PL	TO66	
8	SDT3510	166m	30		2.0	1.0	60	6.0	60	100n	5.0	500m	30		50M			PL	TO66	
9	SDT3511	166m	30		2.0	1.0	80	6.0	80	100n	5.0	500m	30		50M			PL	TO66	
10	SDT3512	166m	30		2.0	1.0	100	6.0	100	100n	5.0	500m	30		50M			PL	TO66	
11	SDT3513	166m	30		2.0	1.0	40	6.0	40	100n	5.0	500m	50	150	50M			PL	TO66	
12	SDT3514	166m	30		2.0	1.0	60	6.0	60	100n	5.0	500m	50	150	50M			PL	TO66	
13	SDT3515	166m	30		2.0	1.0	80	6.0	80	100n	5.0	500m	50	150	50M			PL	TO66	
14	SDT3516	166m	30		2.0	1.0	100	6.0	100	100n	5.0	500m	50	150	50M			PL	TO66	
15#	BD132A	169mØ	11 Ø	♦A	3.0		70	6.0	60	5.0uØ	12Ø	500m	40	300		800m		DPE	TO126	B
16	2N4999	200m#	30 Ø	§J	2.0	1.0	100	5.5	80	1.0m#	5.0Ø	1.0	30	90 #	50M§△				TO59	A
17	2N5001	200m#	30 Ø	§J	2.0	1.0	100	5.5	80	1.0m#	5.0Ø	1.0	70	200 #	60M§△				TO59	A
18	2N5739	200m$	20 Ø	§J	10	2.0	60 †	5.0†	60	500u△♦	5.0Ø	5.0	20	80	10M§△	500m			TO66	CØ
19	2N5740	200m$	20 Ø	§J	10	2.0	100 †	5.0†	100	500u△♦	5.0Ø	5.0	20	80	10M§△	500m			TO66	CØ
20	2N6180†	200m$	10 Ø	§J	2.0 †	1.0	100 †	7.0†	100 #		2.0Ø	500m	30	130 #	50M§△		100nØ		X109	AØ
21	2N6181†	200m$	10 Ø	§J	2.0 †	1.0	75 †	5.0†	75 #		2.0Ø	500m	40	250 #	50M§△		100nØ		X109	AØ
22	2N6211†	200m$	20 Ø	§J	2.0	1.0	275 †	6.0†	275 #		2.8Ø	1.0	10	100	20M§△	1.4	600nØ		TO66	CØ
23	2N6212†	200m$	20 Ø	§J	2.0	1.0	350 †	6.0†	350 #		3.2Ø	1.0	10	100	20M§△	1.6	600nØ		TO66	CØ
24	2N6213†	200m$	20 Ø	§J	2.0	1.0	400 †	6.0†	400 #		4.0Ø	1.0	10	100	20M§△	2.0	600nØ		TO66	CØ
25	2N6214	200m$	20 Ø	§J	2.0	1.0	450 †	6.0†	400		5.0Ø	1.0	10	100 #	20M§△		600nØ		TO66	CØ
26▼	2N6420	200m	35 Ø	§J	1.0	1.0	250 †	6.0†	175	10mΔ♦	10Ø	500m	40	200 #	10M§△	5.0 #			TO66	CØ
27▼	2N6421†	200m	35 Ø	§J	2.0	1.0	375 †	6.0†	250	1.0m#♦	2.0Ø	1.0	8.0	80 #	10M§△	750m#	3.0uØ		TO66	CØ
28▼	2N6422†	200m	35 Ø	§J	2.0	1.0	500 †	6.0†	300	1.0m#♦	2.0Ø	1.0	8.0	80 #	10M§△	750m#	3.0uØ		TO66	CØ
29▼	2N6423†	200m	35 Ø	§J	2.0	1.0	500 †	6.0†	300	2.0m#♦	2.0Ø	750m	10	100 #	15M§△	1.3 #	500nØ		TO66	CØ
30#	2SA490	200m	25 Ø	§J	3.0		50	5.0	40	20uØ	2.0Ø	500m	40	240	4.0M§			EM	X75	D
31#	2SA671K†	200m	25 Ø	§J							4.0Ø	1.0	35	200 *	8.0M§			D	Y220b	D
32▼#	2SA839	200m	1.5	§J	1.5	1.5 Ø	150	5.0	150	20uØ	10Ø	500m	40	240	6.0M§	3.0		DM	X121	D
33#	2SB434	200m	1.5	§J	3.0	3.0 Ø	50	5.0	50	200uØ	5.0Ø	2.5	15	25 Ø	3.0M§	400m		D	X75	A
34#	2SB435	200m	1.5	§J	3.0	3.0 Ø	35	5.0	35	200uØ	5.0Ø	1.0	20	55 Ø	3.0M§	1.0		D	X75	A
35#	2SB512	200m	25	J§	3.0 #	1.0	60	8.0	60	30u	3.0Ø	100m	40 †		70k			D	X75	B
36#	2SB512A	200m	25	J§	3.0 #	1.0	80	8.0	80	30u	3.0Ø	100m	40 †		70k			D	X75	B
37#	2SB513	200m	25	J§	3.0 #	1.0	60	8.0	60	30u	3.0Ø	100m	40 †		70k			D	X75a	B
38#	2SB513A	200m	25	J§	3.0 #	1.0	80	8.0	80	30u	3.0Ø	100m	40 †		70k			D	X75a	B
39#	2SB550	200m	25 Ø	§J	5.0		100	8.0	80	100uØ	5.0Ø	1.0	30	200 #				ME	TO66	CØ
40#	BD234	200m	25 Ø	§J	2.0	300m	45	5.0	45	100u	2.0Ø	150m	40	250 *	3.0M§△	600m		Et	TO126	BØ
41#	BD236	200m	25 Ø	§J	2.0	300m	60	5.0	60	100u	2.0Ø	150m	40	250 *	3.0M§△	600m		Et	TO126	BØ
42#	BD238	200m	25 Ø	§J	2.0	300m	100	5.0	80	100u	2.0Ø	150m	40	160	3.0M§△	600m		Et	TO126	BØ
43	MJ3583	200m	35 Ø	§J	1.0	1.0	250	6.0	175	10mΔ♦	10Ø	500m	40	200	10M§△	5.0			TO66	CØ
44	MJ3584†	200m	35 Ø	§J	2.0	1.0	375	6.0	250	5.0mΔ♦	2.0Ø	750m	10	100	10M§△	750m	3.0uØ		TO66	CØ
45	MJ3585†	200m	35 Ø	§J	2.0	1.0	500	6.0	300	5.0mΔ♦	2.0Ø	1.0	8.0	80	10M§△	750m	3.0uØ		TO66	CØ
46	MJ4240†	200m	35 Ø	§J	2.0	1.0	500	6.0	300	5.0mΔ♦	2.0Ø	1.0	8.0	80	15M§△	1.3	500nØ		TO66	CØ
47	MJE370	200m	25 Ø	§J	3.0	2.0	30	4.0	30	100u♦	1.0Ø	1.0	25					†	X58d	B
48	MJE3370	200m	25 Ø	§J	3.0	2.0	30	4.0	30	100u♦	1.0Ø	1.0	25					†	X58d	D
49#	PN4054	200m	25 Ø	§J	4.0		50	4.0	50		4.0Ø	500mØ	30		800k§			PL	X75	DØ
50	RCA1E03	200m	35 Ø		2.0	1.0	200	5.0	175 Ø	100u*	2.0Ø	300m	30	150				D	TO66	CØ
51	SDT3801	200m	35		10	4.0	60	6.0	60	1.0m	2.0	1.0	25	90	10M				TO66	
52	SDT3802	200m	35		10	4.0	80	6.0	80	1.0m	2.0	1.0	25	90	10M				TO66	
53	SDT3803	200m	35		10	4.0	60	6.0	60	1.0m	2.0	1.0	50	180	10M				TO66	
54	SDT3804	200m	35		10	4.0	80	6.0	80	1.0m	2.0	1.0	50	180	10M				TO66	
55	SDT3805	200m	35		10	2.0	40	5.0	40	100u	5.0	5.0	20	80	10M				TO66	
56	SDT3806	200m	35		10	2.0	80	5.0	80	100u	5.0	5.0	20	80	10M				TO66	
57	SDT3807	200m	35		10	2.0	40	5.0	40	100u	5.0	5.0	40		10M				TO66	
58	ST40002†	200m#	300 Ø#	§J	60		80	8.0	80 *	100uØ	10Ø	20	20	120 #	20M§△		500nØ	PL	TO63	
59	ST40003†	200m#	300 Ø#	§J	60		100	8.0	100 *	100uØ	10Ø	20	20	120 #	20M§△		500nØ	PL	TO63	
60	ST40004†	200m#	300 Ø#	§J	60		120	8.0	120 *	100uØ	10Ø	20	20	120 #	20M§△		500nØ	PL	TO63	
61	TIP507	200m	2.0	§J	2.0 †	600m	150 †	5.0†	150	1.0m§♦	4.0Ø	1.0	30	120 #	50M§△	750m		PEΔ	TO59	A
62	TIP514	200m	2.0	§J	5.0 †	2.0	150 †	5.0†	150	1.0m§♦	4.0Ø	2.5	30	150 #	40M§△			PEΔ	TO66	CØ
63	TIP521	200m	2.0	§J	2.0 †	600m	200 †	5.0†	200	1.0m§♦	4.0Ø	1.0	20	100 #	50M§△			PEΔ	TO59	A
64#	MP8511	222m	3.0	§J	1.2		60	7.0	60	1.0m	5.0Ø	200m	30	60	100M§			PE	X95	
65#	MP8512	222m	3.0	§J	1.2		60	7.0	60	1.0m	5.0Ø	200m	50	120	100M§			PE	X95	
66#	MP8513	222m	3.0	§J	1.2		60	7.0	60	1.0m	5.0Ø	200m	100		100M§			PE	X95	
67#	MP8521	222m	3.0	§J	1.2		35	7.0	35	1.0m	5.0Ø	200m	20	60	100M§			PE	X95	
68#	MP8522	222m	3.0	§J	1.2		35	7.0	35	1.0m	5.0Ø	200m	50	120	100M§			PE	X95	
69#	MP8523	222m	3.0	§J	1.2		35	7.0	35	1.0m	5.0Ø	200m	100		100M§			PE	X95	
70▼#	MP8531	222m	3.0	§J	1.2		20	5.0	20	10uØ	5.0Ø	200m	20	75					X95	
71▼#	MP8532	222m	3.0	§J	1.2		20	5.0	20	10uØ	5.0Ø	200m	60	120					X95	
72▼#	MP8533	222m	3.0	§J	1.2		20	5.0	20	10uØ	5.0Ø	200m	100	175					X95	
73▼#	MP8534	222m	3.0	§J	1.2		20	5.0	20	10uØ	5.0Ø	200m	150	250					X95	
74▼#	MP8535	222m	3.0	§J	1.2		20	5.0	20	10uØ	5.0Ø	200m	250						X95	
75#	MP8611	222m	5.0	§J	1.5		60	7.0	60	1.0m	5.0Ø	500m	30	60	100M§			PE	TO66	CØ
76#	MP8612	222m	5.0	§J	1.5		60	7.0	60	1.0m	5.0Ø	500m	50	120	100M§			PE	TO66	CØ
77#	MP8613	222m	5.0	§J	1.5		60	7.0	60	1.0m	5.0Ø	500m	100		100M§			PE	TO66	CØ
78#	MP8621	222m	5.0	§J	1.5		35	7.0	35	1.0m	5.0Ø	500m	20	60	100M§			PE	TO66	CØ
79#	MP8622	222m	5.0	§J	1.5		35	7.0	35	1.0m	5.0Ø	500m	50	120	100M§			PE	TO66	CØ
80#	MP8623	222m	5.0	§J	1.5		35	7.0	35	1.0m	5.0Ø	500m	100		100M§			PE	TO66	CØ
81	2N3199	227m	40 Ø	§C	3.0	1.5	40	10	40	75u#	2.0Ø	1.0	20	60	1.0M§△	300m			MT42c	AØ
82	2N3200	227m	40 Ø	§C	3.0	1.5	60	10	60	75u#	2.0Ø	1.0	20	60	1.0M§△	300m			MT42c	AØ
83	2N3201	227m	40 Ø	§C	3.0	1.5	80	10	80	75u#	2.0Ø	1.0	20	60	1.0M§△	300m			MT42c	AØ
84	2N3205	227m	40 Ø	§C	2.0	1.0	40	10	40	75u#	2.0Ø	500m	20	60	1.0M§△	800m			TO59	AØ
85	2N3206	227m	40 Ø	§C	2.0	1.0	60	10	60	75u#	2.0Ø	500m	20	60	1.0M§△	800m			TO59	AØ
86	2N3207	227m	40 Ø	§C	2.0	1.0	100	10	100	75u#	2.0Ø	500m	20	60	1.0M§△	800m			TO59	AØ
87	2N5344†	228m	40 Ø	§J	1.0 †	500m	250 †	5.0†	250	100u♦	5.0Ø	500m	25	150 #	60M§△	3.0 #	200nØØ		TO66	CØ
88	2N5345†	228m	40 Ø	§J	1.0 †	500m	300 †	5.0†	300	100u♦	5.0Ø	500m	25	150 #	60M§△	3.0 #	200nØØ		TO66	CØ
89	2N6096	228m	40 Ø	§S	4.0		36 †	4.0†	18	1.0mØ	5.0Ø	500m	15						X106	R
90#	BDX27-6	228m	40 Ø	§J	5.0	600m	40	5.0	40	100u§†	1.0Ø	1.0	40	100	50M§		500nØØ	E	L55c	
91#	BDX27-10	228m	40 Ø	§J	5.0	600m	40	5.0	40	100u§†	1.0Ø	1.0	63	160	50M§		500nØØ	E	L55c	
92#	BDX27-16	228m	40 Ø	§J	5.0	600m	40	5.0	40	100u§†	1.0Ø	1.0	100	250	50M§		500nØØ	E	L55c	
93#	BDX28-6	228m	40 Ø	§J	5.0	600m	60	5.0	60	100u§†	1.0Ø	1.0	40	100	50M§		500nØØ	E	L55c	
94#	BDX28-10	228m	40 Ø	§J	5.0	600m	60	5.0	60	100u§†	1.0Ø	1.0	63	160	50M§		500nØØ	E	L55c	
95#	BDX28-16	228m	40 Ø	§J	5.0	600m	60	5.0	60	100u§†	1.0Ø	1.0	100	250	50M§		500nØØ	E	L55c	
96#	BDX29-6	228m	40 Ø	§J	5.0	600m	80	5.0	80	100u§†	1.0Ø	1.0	40	100	50M§		500nØØ	E	L55c	
97#	BDX29-10	228m	40 Ø	§J	5.0	600m	80	5.0	80	100u§†	1.0Ø	1.0	63	160	50M§		500nØØ	E	L55c	
98#	BDX30-6	228m	40 Ø	§J	5.0	600m	100	5.0	100	100u§†	1.0Ø	1.0	40	100	50M§		500nØØ	E	L55c	
99#	BDX30-10	228m	40 Ø	§J	5.0	600m	100	5.0	100	100u§†	1.0Ø	1.0	63	160	50M§		500nØØ	E	L55c	
100	2N5112	229m	34 Ø	§J	1.0	500m	40	10	40	75u#	4.0Ø	500m	15	60	100M§	1.8			TO59	AØ
101	2N5113	229m	34 Ø	§J	1.0	500m	80	10	80	75u#	4.0Ø	500m	15	60	100M§	1.8			TO59	AØ
102	2N5954	232m	40 Ø	§J	6.0	2.0	90 †	5.0†	85 §	1.0mΔ♦	4.0Ø	2.0	20	100	5.0M§△	333m			TO66	CØ
103	2N5955	232m	40 Ø	§J	6.0	2.0	70 †	5.0†	65 §	2.0m#♦	4.0Ø	2.5	20	100	5.0M§△	333m			TO66	CØ
104	2N5956	232m	40 Ø	§J	6.0	2.0	50 †	5.0†	45 §	2.0m#♦	4.0Ø	3.0	20	100	5.0M§△	333m			TO66	CØ
105	2N6467	232m§	23 Ø	§J	4.0 †	2.0	110 †	5.0†	110 #*	1.0mΔ♦	4.0Ø	1.5	15	150 #	5.0M§△	1.0 #			TO66	CØ
106	2N6468	232m$	23 Ø	§J	4.0 †	2.0	130 †	5.0†	130 #*	1.0mΔ♦	4.0Ø	1.5	15	150 #	5.0M§△	1.0 #			TO66	CØ
107	2N4918	238m	30 Ø	§J	1.0	1.0	40	5.0	40	100u	1.0Ø	500m	20	100 #	3.0M§△				X58	BØ
108	2N4919	238m	30 Ø	§J	1.0	1.0	60	5.0	60	100u	1.0Ø	500m	20	100 #	3.0M§△				X58	BØ
109	2N4920	238m	30 Ø	§J	1.0	1.0	80	5.0	80	100u	1.0Ø	500m	20	100 #	3.0M§△				X58	BØ
110#	BD240†	238m	2.0	§J	1.0	400m		5.0	45	200u§	4.0Ø	200m	40 #		3.0M§△	700m	200nØ	D	u84	D

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	BD240A♦	238m	2.0	§J	1.0	400m		5.0	60	200u§	4.0Ø	200m	40 #		3.0M§△	700m	200nØ	D	u84	D
2#	BD240B†	238m	2.0	§J	1.0	400m		5.0	80	200u§	4.0Ø	200m	40 #		3.0M§△	700m	200nØ	D	u84	D
3#	BD240C†	238m	2.0	§J	1.0	400m		5.0	100	200u§	4.0Ø	200m	40 #		3.0M§△	700m	200nØ	D	u84	D
4	D45C1†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	1.0	10		40M§		50nØ	†	X102	BØ
5	D45C2†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	X102	BØ
6	D45C3†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	X102	BØ
7	D45C4†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	1.0	10		40M§		50nØ	†	X102	BØ
8	D45C5†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	X102	BØ
9	D45C6†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	X102	BØ
10	D45C7†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	1.0	10		40M§		50nØ	†	X102	BØ
11	D45C8†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	X102	BØ
12	D45C9†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	2.0	20		40M§		50nØ	†	X102	BØ
13	D45C10	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	1.0	10		40M§		50nØ	†	X102	BØ
14	D45C11	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	X102	BØ
15▼	D45C12	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	X102	D
16	RCA30†	239m	2.0	§J	3.0	1.0	40	5.0	40	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	E†	Y220b	XØ
17	RCA30A†	239m	2.0	§J	3.0	1.0	60	5.0	60	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	E†	Y220b	XØ
18	RCA30B†	239m	2.0	§J	3.0	1.0	80	5.0	80	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	E†	Y220b	XØ
19	RCA30C†	239m	2.0	§J	3.0	1.0	100	5.0	100	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	E†	Y220b	XØ
20	2N5357†	240m§	30 Ø	§J	3.0	1.0	300	4.0	300	25u#	5.0Ø	500m	25	100	50M§△	3.0	100nØ		TO37	AØ
21#	BD176	240m	30 Ø	§J	3.0	1.0	45	5.0	45	100u	2.0Ø	1.0	15		3.0M§					
22#	BD178	240m	30 Ø	§J	3.0	1.0	60	5.0	60	100u	2.0Ø	1.0	15		3.0M§					
23#	BD180	240m	30 Ø	§J	3.0	1.0	80	5.0	80	100u	2.0Ø	1.0	15		3.0M§					
24#	BD634	240m	2.0	§J	2.0	300m	45	5.0	45	200u§	2.0Ø	1.0	25			600m	300nØ	D△	U84	D
25#	BD636	240m	2.0	§J	2.0	300m	60	5.0	60	200u§	2.0Ø	1.0	25			600m	300nØ	D△	u84	D
26#	BD638	240m	2.0	§J	2.0	300m	100	5.0	80	200u§	2.0Ø	1.0	25			600m	300nØ	D△	u84	D
27	SDT5111	240m	30		3.0	1.0	50	4.0	50	100u	4.0Ø	1.0	35	70	4.0M	500m			Y220a	
28	SDT5112	240m	30		3.0	1.0	50	4.0	50	100u	4.0Ø	1.0	60	120	4.0M	500m			Y220a	
29	SDT5113	240m	30		3.0	1.0	50	4.0	50	100u	4.0Ø	1.0	100	300	4.0M	500m			Y220a	
30	TIP30†	240m	2.0	§J	1.0 †	400m	40 †	5.0†	40	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	DM	u84	BØ
31	TIP30A†	240m	2.0	§J	1.0 †	400m	60 †	5.0†	60	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	DM	u84	BØ
32	TIP30B†	240m	2.0	§J	1.0 †	400m	80 †	5.0†	80	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	DM	u84	BØ
33	TIP30C†	240m	2.0	§J	1.0 †	400m	100 †	5.0†	100	300u△♦	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	DM	u84	BØ
34▼#	NAS30†	242m	2.0	§J	1.0 †	400m	40	5.0	40	300u△	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	D	X75a	BØ
35▼#	NAS30A†	242m	2.0	§J	1.0 †	400m	60	5.0	60	300u△	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	D	X75a	BØ
36▼#	NAS30B†	242m	2.0	§J	1.0 †	400m	80	5.0	80	300u△	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	D	X75a	BØ
37▼#	NAS30C†	242m	2.0	§J	1.0 †	400m	100	5.0	100	300u△	4.0Ø	1.0	15	75 #	3.0M§△		300nØ	D	X75a	BØ
38	SDT3850	243m	42		20	4.0	40	5.0	40	100u	5.0	10	20	80	10M				TO66	
39	SDT3851	243m	42		20	4.0	80	5.0	80	100u	5.0	10	20	80	10M				TO66	
40	SDT3852	243m	42		20	4.0	40	5.0	40	100u	5.0	10	40		10M				TO66	
41	2N5743	250m§	25 Ø	§J	20	4.0	60 †	5.0†	60	500u△♦		10	20	80	10M§△	250m			TO66	CØ
42	2N5744	250m§	25 Ø	§J	20	4.0	100 †	5.0†	100	500u△♦		10	20	80	10M§△	250m			TO66	CØ
43#	2SA762	250m	23 Ø	♦J	2.0		110 $	5.0	110 $	10uØ	2.0Ø	400m	50	240	30M§△				TO66	CØ
44	ST54004†	250m#	187 Ø#	§J	40		80	8.0	80 *	100uØ	10Ø	10	30	120 #	20M§△		500nØ	PL	TO63	
45	ST54005†	250m#	187 Ø#	§J	40		100	8.0	100 *	100uØ	10Ø	10	30	120 #	20M§△		500nØ	PL	TO63	
46	ST54006†	250m#	187 Ø#	§J	40		120	8.0	120 *	100uØ	10Ø	10	30	120 #	20M§△		500nØ	PL	TO63	
47	2N5162	285m	50 Ø	§S	5.0		60	4.0	40	200uØ	5.0Ø	2.0	10						TO60	AØ
48#	BD434	285m	36 Ø	§J	4.0		22	5.0	22	100u	1.0Ø	500m	85	475	3.0M§△	250m		†	TO126	BØ
49#	BD436	285m	36 Ø	§J	4.0		32	5.0	32	100u	1.0Ø	500m	85	475	3.0M§△	250m		†	TO126	BØ
50#	BD438	285m	36 Ø	§J	4.0		45	5.0	45	100u	1.0Ø	500m	85	375	3.0M§△	233m		†	TO126	BØ
51	2N6296	286m	50 Ø	§J	4.0	80m	60 †	5.0†	60	500u△♦	3.0Ø	2.0	750	18k#	4.0M§△				TO66	CØ
52	2N6297	286m	50 Ø	§J	4.0	80m	80 †	5.0†	80	500u△♦	3.0Ø	2.0	750	18k#	4.0M§△				TO66	CØ
53	2N6021	288m	36 Ø	§J	4.0	2.0	80	7.0	70	100m△	4.0Ø	500m	30	120 #					X75a	TØ
54	2N6022	288m	36 Ø	§J	4.0	2.0	80	7.0	70	100m△	4.0Ø	500m	30	120 #					X75a	DØ
55	2N6023	288m	36 Ø	§J	4.0	2.0	60	5.0	40	100m△	4.0Ø	1.0	30	120 #					X75a	TØ
56	2N6024	288m	36 Ø	§J	4.0	2.0	60	5.0	40	100m△	4.0Ø	1.0	30	120 #					X75a	DØ
57	2N6025	288m	36 Ø	§J	4.0	2.0	80	5.0	60	100m△	4.0Ø	1.5	30	120 #					X75a	TØ
58	2N6026	288m	36 Ø	§J	4.0	2.0	80	5.0	60	100m△	4.0Ø	1.5	30	120 #					X75a	DØ
59#	BDY82	288m	36 Ø	§J	4.0 †	2.0	35 †	10	35	200uØ	5.0Ø	500m	40	240 #	3.0M§			H	X75	DØ
60#	BDY83	288m	36 Ø	§J	4.0 †	2.0	50 †	10	50	200uØ	5.0Ø	500m	40	240 #	3.0M§			H	X75	DØ
61	SDO445	288m	1.8	§A	4.0	2.0		5.0	80 Ø	1.0m#	4.0Ø	500m	40	200		1.0		DME†	Y220a	D
62	2N5408†	300m$	30 Ø	§J	5.0	2.0	80 †	6.0†	80	10u#♦	5.0Ø	2.0	20	60	40M§△	1.0	500nØ		TO111	A
63	2N5409†	300m$	30 Ø	§J	5.0	2.0	100 †	6.0†	100	10u#♦	5.0Ø	2.0	20	60	40M§△	1.0	500n†		TO111	A
64	2N5410†	300m$	30 Ø	§J	5.0	2.0	80 †	6.0†	80	10u#♦	5.0Ø	2.0	40	120	40M§△	800m	500n†		TO111	A
65	2N5411†	300m$	30 Ø	§J	5.0	2.0	100 †	6.0†	100	10u#♦	5.0Ø	2.0	40	120	40M§△	800m	500n†		TO111	A
66#	BD440	300m	36	§J	4.0	1.0	60	5.0	60	100u	1.0	500m	40		3.0M			E†	TO126	BØ
67#	BD442	300m	36	§J	4.0	1.0	80	5.0	80	100u	1.0	500m	40		3.0M			E†	TO126	BØ
68#	BD462	300m	1.2	♦S	4.0		35	6.0	30	50uØ	1.0Ø	50m	75	300		500m		B	X100a	B
69#	BD464	300m	1.2	♦S	4.0		35	6.0	35	50uØ	1.0Ø	50m	60	300		700m		D	X100a	B
70#	BDY67	300m	2.0	§J	5.0	1.0	100	4.0	80	50u△	4.0Ø	2.0	20	80	30M§			PE	TO111	G
71#	BDY68	300m	2.0	§J	5.0	1.0	100	4.0	80	50u△	4.0Ø	2.0	20	80	30M§			PE	TO111	A
72	SDT3125	300m	52		10	2.0	40	6.0	40	10u	5.0	5.0	20	80	40M			PL	TO111	G
73	SDT3126	300m	52		10	2.0	60	6.0	60	10u	5.0	5.0	20	80	40M			PL	TO111	G
74	SDT3127	300m	52		10	2.0	80	6.0	80	10u	5.0	5.0	20	80	40M			PL	TO111	G
75	SDT3128	300m	52		10	2.0	100	6.0	100	10u	5.0	5.0	20	80	40M			PL	TO111	G
76	SDT3129	300m	52		10	2.0	120	6.0	120	10u	5.0	5.0	20	80	40M			PL	TO111	G
77	SDT3750	300m	52		5.0	1.0	40	6.0	40	1.0m	1.5	1.0	25	180	60M			PL	TO3	
78	SDT3751	300m	52		5.0	1.0	60	6.0	60	1.0m	1.5	1.0	25	180	60M			PL	TO3	
79	SDT3752	300m	52		5.0	1.0	40	6.0	40	1.0m	3.0	1.0	12	36	10M				TO3	
80	SDT3753	300m	52		5.0	1.0	60	6.0	60	1.0m	3.0	1.0	12	36	10M				TO3	
81	SDT3754	300m	52		5.0	1.0	80	6.0	80	1.0m	3.0	1.0	12	36	10M				TO3	
82	SDT3755	300m	52		5.0	1.0	100	6.0	100	1.0m	3.0	1.0	12	36	10M				TO3	
83	SDT3756	300m	52		5.0	1.0	40	6.0	40	1.0m	3.0	1.0	40		10M				TO3	
84	SDT3757	300m	52		5.0	2.0	40	6.0	40	1.0m	3.0	2.0	10	30	10M				TO3	
85	SDT3758	300m	52		5.0	2.0	60	6.0	60	1.0m	3.0	2.0	10	30	10M				TO3	
86	SDT3759	300m	52		5.0	2.0	80	6.0	80	1.0m	3.0	2.0	10	30	10M				TO3	
87	SDT3760	300m	52		5.0	2.0	100	6.0	100	1.0m	3.0	2.0	10	30	10M				TO3	
88	SDT3761	300m	52		5.0	2.0	40	6.0	40	1.0m	3.0	2.0	40		10M				TO3	
89	SDT3762	300m	52		5.0	2.0	40	6.0	40	1.0m	3.0	3.0	10	30	10M				TO3	
90	SDT3763	300m	52		5.0	2.0	60	6.0	60	1.0m	3.0	3.0	10	30	10M				TO3	
91	SDT3764	300m	52		5.0	2.0	80	6.0	80	1.0m	3.0	3.0	10	30	10M				TO3	
92	SDT3765	300m	52		5.0	2.0	100	6.0	100	1.0m	3.0	3.0	10	30	10M				TO3	
93	SDT3766	300m	52		5.0	2.0	40	6.0	40	1.0m	3.0	3.0	40		10M				TO3	
94	TIP513	300m	2.0	§J	5.0 †	2.0	150 †	5.0†	150	1.0m§♦	4.0Ø	2.5	30	150 #	40M§△			PE△	TO59	A
95	TIP523	300m	2.0	§J	5 †	2.0	200 †	5.0†	200	1.0m§♦	4.0Ø	2.5	20	100 #	40M§△			PE△	TO59	A
96	2N5003	303m#	50 Ø	§J	5.0	2.0	100	5.5	80	1.0m#	5.0Ø	2.5	30	90 #	60M§△				TO59	A
97	2N5005	303m#	50 Ø	§J	5.0	2.0	100	5.5	80	1.0m#	5.0Ø	2.5	70	200 #	70M§△				TO59	A
98	2N5384	303m#	2.0	§J	5.0	1.0	100	6.0	80	10u§♦	4.0Ø	2.0	20	80 #	30M§△				TO111	G
99	2N5385	303m#	2.0	§J	5.0	1.0	100	6.0	80	10u§♦	4.0Ø	2.0	20	80 #	30M§△				TO111	AØ
100	SDT3301†	303m	2.0	§J	5.0	2.0	40	6.0	40	10m#	5.0Ø	2.0	40	120 #	40M§△		500m	PE	TO111	
101	SDT3302†	303m	2.0	§J	5.0	2.0	60	6.0	60	10m#	5.0Ø	2.0	40	120 #	40M§△		500n	PE	TO111	
102	SDT3303†	303m	2.0	§J	5.0	2.0	80	6.0	80	10m#	5.0Ø	2.0	40	120 #	40M§△		500n	PE	TO111	
103	SDT3304†	303m	2.0	§J	5.0	2.0	100	6.0	100	10m#	5.0Ø	2.0	40	120 #	40M§△		500n	PE	TO111	
104	SDT3305†	303m	2.0	§J	5.0	2.0	40	6.0	40	10u#	5.0Ø	2.0	20	60 #	40M§△		500n	PE	TO111	
105	SDT3306†	303m	2.0	§J	5.0	2.0	60	6.0	60	10u#	5.0Ø	2.0	20	60 #	40M§△		500n	PE	TO111	
106	SDT3307†	303m	2.0	§J	5.0	2.0	80	6.0	80	10u#	5.0Ø	2.0	20	60 #	40M§△		500n	PE	TO111	
107	SDT3308†	303m	2.0	§J	5.0	2.0	100	6.0	100	10u#	5.0Ø	2.0	20	60 #	40M§△		500n	PE	TO111	
108	SDT3309†	303m	2.0	§J	5.0	2.0	120	6.0	120	10u#	5.0Ø	2.0	20	60 #	40M§△		500n	PE	TO111	
109	ST72011	303m$	30 Ø		5.0		40	7.0	40	1.0uØ	2.0Ø	1.5	30	200	30M§△			PE	TO111	
110	ST72012	303m$	30 Ø		5.0		60	7.0	60	1.0uØ	2.0Ø	1.5	30	200	30M§△			PE	TO111	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	ST72013	303m$	30 Ø		5.0		80	7.0	80	1.0uØ	2.0Ø	1.5	30	200	30M§Δ			PE	TO111	
2	ST72014	303m$	30 Ø		5.0		100	7.0	100	2.0uØ	2.0Ø	1.5	30	200	30M§Δ			PE	TO111	
3	2N5193	320m	40 Ø	$J	4.0	1.0	40	5.0	40	100u	2.0Ø	1.5	25	100	2.0M§Δ	350m			X58	BØ
4	2N5194	320m	40 Ø	$J	4.0	1.0	60	5.0	60	100u	2.0Ø	1.5	25	100	2.0M§Δ	350m			X58	BØ
5	2N5195	320m	40 Ø	$J	4.0	1.0	80	5.0	80	100u	2.0Ø	1.5	20	80	2.0M§Δ	350m			X58	BØ
6	2N6034	320m	1.5	$J	4.0	100m	40 †	5.0†	40	500uØ♦	3.0Ø	2.0	750	15k#	25M§Δ				u116	BØ
7	2N6035	320m	1.5	$J	4.0	100m	60 †	5.0†	60	500uØ♦	3.0Ø	2.0	750	15k#	25M§Δ				u116	BØ
8	2N6036	320m	1.5	$J	4.0	100m	80 †	5.0†	80	500uØ♦	3.0Ø	2.0	750	15k#	25M§Δ				u116	BØ
9♦	2N6106	320m	40 Ø	$J	7.0	3.0	80 †	5.0†	70	1.0mΔ♦	4.0Ø	2.0	30	150	10M§Δ	500m			Y220a	TØ
10♦	2N6107	320m	40 Ø	$J	7.0	3.0	80 †	5.0†	70	1.0mΔ♦	4.0Ø	2.0	30	150	10M§Δ	500m			Y220b	DØ
11♦	2N6108	320m	40 Ø	$J	7.0	3.0	60 †	5.0†	50	1.0mΔ♦	4.0Ø	2.5	30	150	10M§Δ	500m			Y220a	TØ
12♦	2N6109	320m	40 Ø	$J	7.0	3.0	60 †	5.0†	50	1.0mΔ♦	4.0Ø	2.5	30	150	10M§Δ	500m			Y220b	DØ
13♦	2N6110	320m	40 Ø	$J	7.0	3.0	40 †	5.0†	30	1.0mΔ♦	4.0Ø	3.0	30	150	10M§Δ	500m			Y220a	TØ
14♦	2N6111	320m	40 Ø	$J	7.0	3.0	40 †	5.0†	30	1.0mΔ♦	4.0Ø	3.0	30	150	10M§Δ	500m			Y220b	DØ
15	2N6124	320m	40 Ø	$J	4.0	1.0	45 †	5.0†	45	100u♦	2.0Ø	1.5	25	100 #	2.5M§Δ	350m#			Y220b	DØ
16	2N6125	320m	40 Ø	$J	4.0	1.0	60 †	5.0†	60	100u♦	2.0Ø	1.5	25	100 #	2.5M§Δ	350m#			Y220b	DØ
17	2N6126	320m	40 Ø	$J	4.0	1.0	80 †	5.0†	80	100u♦	2.0Ø	1.5	20	80 #	2.5M§Δ	350m#			Y220b	DØ
18	2N6475	320m$	16 Ø	$J	4.0 †	2.0	110 †	5.0†	110 #*	1.0mΔ♦	4.0Ø	1.5	15	150 #	10M§Δ	625m#			Y220b	DØ
19	2N6476	320m$	16 Ø	$J	4.0 †	2.0	130 †	5.0†	130 #*	1.0mΔ♦	4.0Ø	1.5	15	150 #	10M§Δ	625m#			Y220b	DØ
20	40872	320m	40 Ø	§J	7.0	3.0		5.0	100	1.0m*	4.0	1.0	50	250	10M§Δ			E	Y220b	DØ
21	40874	320m	40 Ø	§J	7.0	3.0		5.0	70 ⍁	1.0m*	4.0	2.0	30	150	10M§Δ	500m		E	Y220b	DØ
22	40876	320m	40 Ø	§J	7.0	3.0		5.0	50 ⍁	1.0m*	4.0	3.0	20	120	10M§Δ	333m		E	Y220b	DØ
23▼	41501	320m	40 Ø	$J	7.0	3.0	35 †	3.0†	25 ⍁	30 *♦	4.0Ø	1.0	13 Ø					E	Y220b	DØ
24#	BD242†	320m	2.0	$J	3.0	1.0		5.0	45 ⍁	300u§	4.0Ø	3.0	20 #		3.0M§Δ	400m	200nØ	D	u84	D
25#	BD242A†	320m	2.0	$J	3.0	1.0		5.0	60 ⍁	300u§	4.0Ø	3.0	20 #		3.0M§Δ	400m	200nØ	D	u84	D
26#	BD242B†	320m	2.0	$J	3.0	1.0		5.0	80 ⍁	300u§	4.0Ø	3.0	20 #		3.0M§Δ	400m	200nØ	D	u84	D
27#	BD242C†	320m	2.0	$J	3.0	1.0		5.0	100 ⍁	300u§	4.0Ø	3.0	20 #		3.0M§Δ	400m	200nØ	D	u84	D
28#	BD734	320m	2.0	$	4.0	1.0	22	5.0	22	200u§	1.0Ø	2.0	50			400m	300nØ	DΔ	u84	D
29#	BD736	320m	2.0	$	4.0	1.0	32	5.0	32	200u§	1.0Ø	2.0	50			400m	300nØ	DΔ	u84	D
30#	BD738	320m	2.0	$	4.0	1.0	45	5.0	45	200u§	1.0Ø	2.0	40			400m	300nØ	DΔ	u84	D
31	MJE370K	320m	40 Ø	$J	3.0	2.0	30	4.0	30	100u♦	1.0Ø	1.0	25					†	X104	D
32	MJE371	320m	40 Ø	$J	4.0	2.0	40	4.0	40	100u♦	1.0Ø	1.0	40 #					Δ	X58d	B
33	MJE2370	320m	40 Ø	$J	3.0	1.0	40	5.0	40	200u§	4.0Ø	200m	40	200 #	3.0M§Δ				X104	D
34	MJE2371	320m	40 Ø	$J	3.0	1.0	60	5.0	60	200u§	4.0Ø	200m	40	200 #	3.0M§Δ				X104	D
35	MJE3371	320m	40 Ø	$J	4.0	2.0	40	4.0	40	100u♦	1.0Ø	1.0	40 #					Δ	X58d	D
36	MJE3740	320m	40 Ø	$J	4.0	2.0	60	5.0	60	100u	1.0Ø	250m	30	100 #	4.0M§Δ			Δ	X104	D
37	MJE3741	320m	40 Ø	$J	4.0	2.0	80	5.0	80	100u	1.0Ø	250m	30	100 #	4.0M§Δ			Δ	X104	D
38	MJE4918	320m	40 Ø	$J	3.0	1.0	40	5.0	40	100u♦	1.0Ø	500m	20	100 #	3.0M§Δ			Δ	X104	D
39	MJE4919	320m	40 Ø	$J	3.0	1.0	60	5.0	60	100u♦	1.0Ø	500m	20	100 #	3.0M§Δ			Δ	X104	D
40	MJE4920	320m	40 Ø	$J	3.0	1.0	80	5.0	80	100u♦	1.0Ø	500m	20	100 #	3.0M§Δ			Δ	X104	D
41#	PC200	320m	40 Ø	$A	4.0		50	5.0	40	200nØ	1.0Ø	500m	40	250		600m		MPE	X86	B
42#	PC210	320m	40 Ø	$A	4.0		60	5.0	60	200nØ	1.0Ø	500m	40	250		600m		MPE	X86	B
43	RCA1C04	320m	40 Ø	$J	4.0	2.0	120	5.0	100	1.0m*♦	4.0Ø	1.0	50	250	10M§Δ	1.0		E	Y220b	DØ
44	RCA1C06	320m	40 Ø	$J	7.0	3.0	60	5.0	50	1.0m*♦	4.0Ø	3.0	20	120	10M§Δ	333m		E	Y220b	DØ
45	RCA1C11	320m	40 Ø	$J	7.0	3.0	40	5.0	40	10u*♦	4.0Ø	1.5	50	250	10M§Δ	666m		E	Y220b	DØ
46	RCA1C13	320m	40 Ø	$J	4.0	2.0	140	5.0	120	100u*♦	2.0Ø	1.0	40	250	10M§Δ			E	Y220b	DØ
47	RCA32†	320m	2.0	$J	5.0	1.0	40	5.0	40	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	E†	Y220b	XØ
48	RCA32A†	320m	2.0	$J	5.0	1.0	60	5.0	60	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	E†	Y220b	XØ
49	RCA32B†	320m	2.0	$J	5.0	1.0	80	5.0	80	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	E†	Y220b	XØ
50	RCA32C†	320m	2.0	$J	5.0	1.0	100	5.0	100	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	E†	Y220b	XØ
51	RCA370	320m	40 Ø	$J	5.0	2.0	30	4.0	30	100u♦	1.0Ø	1.0	25 #					E	Y220b	L
52	RCA371	320m	40 Ø	$J	5.0	2.0	40	4.0	40	100u♦	1.0Ø	1.0	40 #					E	Y220b	L
53	RCA45193	320m	40 Ø	$J	7.0	2.0	40	5.0	40	100u♦	2.0Ø	1.5	25	100 #				E	Y220b	L
54	RCA45194	320m	40 Ø	$J	7.0	2.0	60	5.0	60	100u♦	2.0Ø	1.5	25	100 #				E	Y220b	L
55	RCA45195	320m	40 Ø	$J	7.0	2.0	80	5.0	80	100u♦	2.0Ø	1.5	20	80 #				E	Y220b	L
56	TIP32†	320m	2.0	$J	3.0 †	1.0	40 †	5.0†	40	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	DM	u84	BØ
57	TIP32A†	320m	2.0	$J	3.0 †	1.0	60 †	5.0†	60	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	DM	u84	BØ
58	TIP32B†	320m	2.0	$J	3.0 †	1.0	80 †	5.0†	80	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	DM	u84	BØ
59	TIP32C†	320m	2.0	$J	3.0 †	1.0	100 †	5.0†	100	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	DM	u84	BØ
60▼#	NAS32†	325m	2.0	$J	3.0	1.0	40	5.0	40	300uΔ	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	D	X75a	BØ
61▼#	NAS32A†	325m	2.0	$J	3.0	1.0	60	5.0	60	300uΔ	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	D	X75a	BØ
62▼#	NAS32B†	325m	2.0	$J	3.0	1.0	80	5.0	80	300uΔ	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	D	X75a	BØ
63▼#	NAS32C†	325m	2.0	$J	3.0	1.0	100	5.0	100	300uΔ	4.0Ø	3.0	10	50 #	3.0M§Δ		300nØ	D	X75a	BØ
64	2N5613	330m#	50 Ø	§J	5.0	2.0	80 †	5.5†	60	1.0m#♦	5.0Ø	2.5	70	200 #	70M§Δ				TO3	CØ
65	2N5615	330m#	50 Ø	§J	5.0	2.0	100 †	5.5†	80	1.0m#♦	5.0Ø	2.5	30	90 #	60M§Δ				TO3	CØ
66	2N5617	330m#	50 Ø	§J	5.0	2.0	100 †	5.5†	80	1.0m#♦	5.0Ø	2.5	70	200 #	70M§Δ				TO3	CØ
67	2N5619	330m#	50 Ø	§J	5.0	2.0	120 †	5.5†	100	1.0m#♦	5.0Ø	2.5	30	90 #	60M§Δ				TO3	CØ
68	2N5286	333m#	50 Ø	§J	5.0	2.0	100	5.5	100	1.0m#	5.0Ø	2.5	30	90 #	60M§Δ				TO59	A
69	2N5287	333m#	50 Ø	§J	5.0	2.0	100	5.5	100	1.0m#	5.0Ø	2.5	70	200 #	70M§Δ				TO59	A
70#	BD586	333m	42 Ø	$J	4.0	1.5	45	5.0	45 *	100u	2.0Ø	2.0	25 #		3.0M§Δ			H†	u98	BØ
71#	BD588	333m	42 Ø	$J	4.0	1.5	60	5.0	60 *	100u	2.0Ø	2.0	25 #		3.0M§Δ			H†	u98	BØ
72#	BD590	333m	42 Ø	$J	4.0	1.5	80	5.0	80 *	100u	2.0Ø	2.0	15 #		3.0M§Δ			H†	u98	BØ
73	ST72036†	333m#	45 Ø#	§J	5.0		80	8.0	80 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO59	
74	ST72037†	333m#	45 Ø#	§J	5.0		100	8.0	100 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO59	
75	ST72038†	333m#	45 Ø#	§J	5.0		120	8.0	120 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO59	
76	2N6097	343m	60 Ø	§S	6.0		36 †	4.0†	18	2.5mØ	5.0Ø	500m	15						X106	R
77	2N6182†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	30	120 #	30M§Δ		100n⍁		TO59	AØ
78	2N6183†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	60	240 #	30M§Δ		100n⍁		TO59	AØ
79	2N6184†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	30	120 #	30M§Δ		100n⍁		TO59	AØ
80	2N6185†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	60	240 #	30M§Δ		100n⍁		TO59	AØ
81	2N6186†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	30	120 #	30M§Δ		100n⍁		TO59	AØ
82	2N6187†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	60	240 #	30M§Δ		100n⍁		TO59	AØ
83	2N6188†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	30	120 #	30M§Δ		100n⍁		TO59	AØ
84	2N6189†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	60	240 #	30M§Δ		100n⍁		TO59	AØ
85	MJ500†	343m	60 Ø	§J	7.0	1.0	60	5.0	60	10u	2.0Ø	2.0	25	180 #	30M§Δ	350m#	100n⍁		TO59	AØ
86	MJ501†	343m	60 Ø	§J	7.0	1.0	80	5.0	80	10u	2.0Ø	2.0	25	180 #	30M§Δ	350m#	100n⍁		TO59	AØ
87	MJ6700†	343m	60 Ø	§J	7.0	1.0	60	5.0	60	10u	2.0Ø	2.0	25	180 #	30M§Δ		100n⍁		TO59	A
88	MJ6701†	343m	60 Ø	§J	7.0	1.0	80	5.0	80	10u	2.0Ø	2.0	25	180 #	30M§Δ		100n⍁		TO59	A
89	2N6132	400m	50 Ø	$J	7.0	3.0	40 †	5.0†	40	500u♦	4.0Ø	2.5	20	100 #	2.5M§Δ				Y220b	DØ
90	2N6133	400m	50 Ø	$J	7.0	3.0	60 †	5.0†	60	500u♦	4.0Ø	2.5	20	100 #	2.5M§Δ				Y220b	DØ
91	2N6134	400m	50 Ø	$J	7.0	3.0	80 †	5.0†	80	500u♦	4.0Ø	2.5	20	100 #	2.5M§Δ				Y220b	DØ
92#	2SA756	400m	50 Ø	$	6.0		100	6.0	80	1.0mØ	5.0Ø	1.0	35	200 *	20M§			D	TO3	A
93▼#	2SA807	400m	50 Ø	$J	6.0	3.0	60	6.0	60	1.0m	4.0Ø	3.0	20	50 Ø	10M§	500m		EM	TO3	CØ
94▼#	2SA808	400m	50 Ø	$J	6.0	3.0	80	6.0	80	1.0m	4.0Ø	3.0	20	50 Ø	10M§	500m		EM	TO3	CØ
95#	2SB506	400m	60 Ø	§	7.5 #	2.0	150	7.0	100	1.0mØ	5.0Ø	1.0	35 #	200 #		200m#		EM	TO3	CØ
96#	2SC642	400m	50 Ø	$J	1.0		1.1k	5.0	700 §	10uØ	15Ø	150m	30	160	1.5M†			M	TO3	CØ
97#	2SC643	400m	50 Ø	$J	2.5		1.1k	5.0	1.1kØ	10uØ	15Ø	2.0	7.0	50	4.0M†			M	TO3	CØ
98▼	D45E1	400m	1.6	$J	10	1.0		7.0	40	1.0u§	2.0Ø	5.0	2.0k		35M§	150m		†	X102	D
99▼	D45E2	400m	1.6	$J	10	1.0		7.0	60	1.0u§	2.0Ø	5.0	2.0k		35M§	150m		†	X102	D
100▼	D45E3	400m	1.6	$J	10	1.0		7.0	80	1.0u§	2.0Ø	5.0	2.0k		35M§	150m		†	X102	D
101	D45H1	400m	1.6	$J	10			5.0	30	10u	1.0Ø	2.0	35		40M§		135nØ	†	X102	BØ
102	D45H2	400m	1.6	$J	10			5.0	30	10u	1.0Ø	2.0	60		40M§		135nØ	†	X102	BØ
103	D45H4	400m	1.6	$J	10			5.0	45	10u	1.0Ø	2.0	35		40M§		135nØ	†	X102	BØ
104	D45H5	400m	1.6	$J	10			5.0	45	10u	1.0Ø	2.0	60		40M§		135nØ	†	X102	BØ
105	D45H7	400m	1.6	$J	10			5.0	60	10u	1.0Ø	2.0	35		40M§		135nØ	†	X102	BØ
106	D45H8	400m	1.6	$J	10			5.0	60	10u	1.0Ø	2.0	60		40M§		135nØ	†	X102	BØ
107	D45H10	400m	1.6	$J	10			5.0	80	10u	1.0Ø	2.0	35		40M§		135nØ	†	X102	BØ
108▼	D45H11	400m	1.6	$J	10			5.0	80	10u	1.0Ø	2.0	60		40M§	125m	125nØ	†	X102	D
109	ST76018†	400m#	60 Ø#	§J	10		80	8.0	80 *	30uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO59	
110	ST76019†	400m#	60 Ø#	§J	10		100	8.0	100 *	30uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO59	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG Y200 s/a TO200 Ser.	#L C E O A D D E
1	ST76020†	400m#	60 Ø#	§J	10		120	8.0	120 *	30uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO59	
2#	2SA757	408m	60 Ø	$	7.0	2.0	120	6.0	90	1.0mØ	5.0Ø	1.0	25	200 *	24M§			D	TO3	A
3	2N6298	428m	75 Ø	§J	8.0	120m	60 †	5.0†	60	500uΔ♦	3.0Ø	4.0	750	18k#	4.0M§Δ				TO66	CØ
4	2N6299	428m	75 Ø	§J	8.0	120m	80 †	5.0†	80	500uΔ♦	3.0Ø	4.0	750	18k#	4.0M§Δ				TO66	CØ
5	2N6049	430m	75 Ø	§J	4.0	2.0	90 †	7.0†	55	1.0m#♦	4.0Ø	500m	25	100	3.0M§Δ	500m			TO66	CØ
6	2N6312	430m	75 Ø	§J	5.0	2.0	40 †	5.0†	40	50u	4.0Ø	1.5	25	100 #	4.0M§Δ				TO66	CØ
7	2N6313	430m	75 Ø	§J	5.0	2.0	60 †	5.0†	60	50u	4.0Ø	1.5	25	100 #	4.0M§Δ				TO66	CØ
8	2N6314	430m	75 Ø	§J	5.0	2.0	80 †	5.0†	80	50u	4.0Ø	1.5	25	100 #	4.0M§Δ				TO66	CØ
9	2N3171	434m	75 Ø	§C	3.0	1.0	40	10	40	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO3	CØ
10	2N3172	434m	75 Ø	§C	3.0	1.0	60	10	60	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO3	CØ
11	2N3173	434m	75 Ø	§C	3.0	1.0	80	10	80	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO3	CØ
12	2N3174	434m	75 Ø	§C	3.0	1.0	100	10	100	10m#	1.0	1.0	12	36	1.0M§Δ	750m			TO3	CØ
13	2N3183	434m	75 Ø	§C	5.0	2.0	40	10	40	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO3	CØ
14	2N3184	434m	75 Ø	§C	5.0	2.0	60	10	60	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO3	CØ
15	2N3185	434m	75 Ø	§C	5.0	2.0	80	10	80	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO3	CØ
16	2N3186	434m	75 Ø	§C	5.0	2.0	100	10	100	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO3	CØ
17	2N3195	434m	75 Ø	§C	5.0	2.0	40	10	40	10m#	3.0Ø	3.0	10	30	1.0M§Δ	300m			TO3	CØ
18	2N3196	434m	75 Ø	§C	5.0	2.0	60	10	60	10m#	3.0Ø	3.0	10	30	1.0M§Δ	300m			TO3	CØ
19	2N3197	434m	75 Ø	§C	5.0	2.0	80	10	80	10m#	3.0Ø	3.0	10	30	1.0M§Δ	300m			TO3	CØ
20	2N3198	434m	75 Ø	§C	5.0	2.0	100	10	100	10m#	3.0Ø	3.0	10	30	1.0M§Δ	300m			TO3	CØ
21#	BD596	434m	55 Ø	§J	8.0	2.5	45	5.0	45 *	100u	2.0Ø	3.0	25 #		3.0M§Δ			H†	u98	BØ
22#	BD598	434m	55 Ø	§J	8.0	2.5	60	5.0	60 *	100u	2.0Ø	3.0	25 #		3.0M§Δ			H†	u98	BØ
23#	BD600	434m	55 Ø	§J	8.0	2.5	80	5.0	80 *	100u	2.0Ø	3.0	15 #		3.0M§Δ			H†	u98	BØ
24#	BD302	440m	55 Ø	§J	8.0		60	5.0	45	1.0mØ†	2.0Ø	3.0	30		3.0M§Δ	330m		E	Y220b	DØ
25#	BD304	440m	55 Ø	§J	8.0		60	5.0	60	1.0mØ†	2.0Ø	2.0	30		3.0M§Δ	330m		E	Y220b	DØ
26	2N3163	454m	85 Ø	§C	3.0	1.0	40	10	40	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO3	CØ
27	2N3164	454m	85 Ø	§C	3.0	1.0	60	10	60	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			MT10	AØ
28	2N3165	454m	85 Ø	§C	3.0	1.0	80	10	80	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			MT10	AØ
29	2N3166	454m	85 Ø	§C	3.0	1.0	100	10	100	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			MT10	AØ
30	2N3167	454m	85 Ø	§C	3.0	1.0	40	10	40	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO53	AØ
31	2N3168	454m	85 Ø	§C	3.0	1.0	60	10	60	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO53	AØ
32	2N3169	454m	85 Ø	§C	3.0	1.0	80	10	80	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO53	AØ
33	2N3170	454m	85 Ø	§C	3.0	1.0	100	10	100	10m#	3.0Ø	1.0	12	36	1.0M§Δ	750m			TO53	AØ
34	2N3175	454m	85 Ø	§C	5.0	2.0	40	10	40	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			MT10	AØ
35	2N3176	454m	85 Ø	§C	5.0	2.0	60	10	60	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			MT10	AØ
36	2N3177	454m	85 Ø	§C	5.0	2.0	80	10	80	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			MT10	AØ
37	2N3178	454m	85 Ø	§C	5.0	2.0	100	10	100	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			MT10	AØ
38	2N3179	454m	85 Ø	§C	5.0	2.0	40	10	40	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO53	AØ
39	2N3180	454m	85 Ø	§C	5.0	2.0	60	10	60	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO53	AØ
40	2N3181	454m	85 Ø	§C	5.0	2.0	80	10	80	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO53	AØ
41	2N3182	454m	85 Ø	§C	5.0	2.0	100	10	100	10m#	3.0Ø	2.0	10	30	1.0M§Δ	500m			TO53	AØ
42	2N3187	454m	85 Ø	§C	5.0	2.0	40	10	40	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			MT10	AØ
43	2N3188	454m	85 Ø	§C	5.0	2.0	60	10	60	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			MT10	AØ
44	2N3189	454m	85 Ø	§C	5.0	2.0	80	10	80	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			MT10	AØ
45	2N3190	454m	85 Ø	§C	5.0	2.0	100	10	100	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			MT10	AØ
46	2N3191	454m	85 Ø	§C	5.0	2.0	40	10	40	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			TO53	AØ
47	2N3192	454m	85 Ø	§C	5.0	2.0	60	10	60	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			TO53	AØ
48	2N3193	454m	85 Ø	§C	5.0	2.0	80	10	80	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			TO53	AØ
49	2N3194	454m	85 Ø	§C	5.0	2.0	100	10	100	10m#	3.0Ø	2.0	10	30	1.0M§Δ	300m			TO53	AØ
50	SDT3825	454m	78		10	2.0	40	5.0	40	100u	5.0	5.0	20	80	10M				TO3	
51	SDT3826	454m	78		10	2.0	80	5.0	80	100u	5.0	5.0	20	80	10M				TO3	
52	SDT3827	454m	78		10	2.0	40	5.0	40	100u	5.0	5.0	40		10M				TO3	
53#	2SA626	480m	60 Ø	$J	7.0	2.0	80	5.0	60	2.0mØ	2.0Ø	3.0	20	50	10M			EM	TO3	CØ
54#	2SA627	480m	60 Ø	§J	7.0	2.0	100	5.0	70	2.0mØ	2.0Ø	3.0	20	50	10M			EM	TO3	CØ
55♦#	BD202	480m	60 Ø	§J	8.0		60	5.0	45	1.0mØ†	2.0Ø	3.0	30 #		25kΔ	333m#		E†	Y220b	D
56♦#	BD204	480m	60 Ø	§J	8.0		60	5.0	60	1.0mØ†	2.0Ø	2.0	30 #		25kΔ	333m		E†	Y220b	D
57♦#	BDX78	480m	60 Ø	§J	8.0		80	5.0	80	1.0mØ†	2.0Ø	2.0	30		25kΔ	333m#		E†	Y220b	D
58	MJE371K	480m	60 Ø	§J	4.0	2.0	40	4.0	40	100u♦	1.0Ø	1.0	40 #					Δ	X104	D
59	MJE2490	480m	60 Ø	§J	3.0	1.0	40	5.0	40	200u§	4.0Ø	1.0	20	100 #	3.0M§Δ			Δ	X104	D
60	MJE2491	480m	60 Ø	§J	3.0	1.0	60	5.0	60	200u§	4.0Ø	1.0	20	100 #	3.0M§Δ			Δ	X104	D
61	MJE5193	480m	60 Ø	§J	4.0	1.0	40	5.0	40	100u♦	2.0Ø	1.5	25	100 #	2.0M§Δ			Δ	X104	D
62	MJE5194	480m	60 Ø	§J	4.0	1.0	60	5.0	60	100u♦	2.0Ø	1.5	25	100 #	2.0M§Δ			Δ	X104	D
63	MJE5195	480m	60 Ø	§J	4.0	1.0	80	5.0	80	100u♦	2.0Ø	1.5	20	80 #	2.0M§Δ			Δ	X104	D
64	2N4901	500m	87 Ø	§J	5.0	1.0	40	5.0	40	100u#	2.0Ø	1.0	20	80 #	4.0M§Δ				TO3	CØ
65	2N4902	500m	87 Ø	§J	5.0	1.0	60	5.0	60	100u#	2.0Ø	1.0	20	80 #	4.0M§Δ				TO3	CØ
66	2N4903	500m	87 Ø	§J	5.0	1.0	80	5.0	80	100u#	2.0Ø	1.0	20	80 #	4.0M§Δ				TO3	CØ
67	2N4904	500m	87 Ø	§J	5.0	1.0	40	5.0	40	100u#	2.0Ø	2.5	25	100 #	4.0M§Δ				TO3	CØ
68	2N4905	500m	87 Ø	§J	5.0	1.0	60	5.0	60	100u#	2.0Ø	2.5	25	100 #	4.0M§Δ				TO3	CØ
69	2N4906	500m	87 Ø	§J	5.0	1.0	80	5.0	80	100u#	2.0Ø	2.5	25	100 #	4.0M§Δ				TO3	CØ
70	2N5312†	500m$	50 Ø	§J	10	2.5	80	6.0	80	10u#	5.0Ø	10	30	90 #	30M§Δ		500n		TO61	A
71	2N5314†	500m$	50 Ø	§J	10	2.5	100	6.0	100	10u#	5.0Ø	10	30	90 #	30M§Δ		500n		TO61	A
72	2N5316†	500m$	50 Ø	§J	10	2.0	80	6.0	80	10u#	5.0Ø	5.0	30	90 #	30M§Δ		200n		TO61	A
73	2N5318†	500m$	50 Ø	§J	10	2.0	100	6.0	100	10u#	5.0Ø	5.0	30	90 #	30M§Δ		200n		TO61	A
74	2N5386	500m	3.5	§J	12	4.0	100	6.0	80	10u§♦	4.0Ø	6.0	20	80 #	30M§Δ				TO61	AØ
75	2N5677†	500m$	50 Ø	§J	10	2.0	125 †	6.0†	100	1.0uØ♦	5.0Ø	5.0	30	90 #	20M§Δ		500nØ		TO61	AØ
76	2N5737	500m$	50 Ø	§J	10	2.0	60 †	5.0†	60	500uΔ♦	5.0Ø	5.0	20	80	10M§Δ	500m			TO3	CØ
77	2N5738	500m$	50 Ø	§J	10	2.0	100 †	5.0†	100	500uΔ♦	5.0Ø	5.0	20	80	10M§Δ	500m			TO3	CØ
78	2N5867†	500m	87 Ø	§J	5.0	2.0	60 †	5.0†	60	100u♦	4.0Ø	1.5	20	100	4.0M§Δ	500m	700nØ		TO3	CØ
79	2N5868†	500m	87 Ø	§J	5.0	2.0	80 †	5.0†	80	100u♦	4.0Ø	1.5	20	100	4.0M§Δ	500m	700nØ		TO3	CØ
80#	BDY69	500m	3.5	§J	12	4.0	100	4.0	80	50uΔ	4.0Ø	6.0	20	80	30M§			PE	TO61	A
81	MJ490	500m	5.0	§J	4.0	1.0	40	5.0	40	1.0m	2.0Ø	1.0	30	200	4.0M§Δ	400m			TO3	CØ
82	MJ491	500m	5.0	§J	4.0	1.0	60	5.0	60	1.0m	2.0Ø	1.0	30	200	4.0M§Δ	400m			TO3	CØ
83	SDT3101†	500m	3.0	§J	20	5.0	40	6.0	40	10m#	5.0Ø	10	30	90 #	30M§Δ		500n	PE	TO61	A
84	SDT3102†	500m	3.0 §	J	20	5.0	60	6.0	60	.01m#	5.0Ø	10	30	90 #	30M§Δ		.50u	PE	TO61	A
85	SDT3103†	500m	3.0	§J	20	5.0	80	6.0	80	10m#	5.0Ø	10	30	90 #	30M§Δ		500n	PE	TO61	A
86	SDT3104†	500m	3.0	§J	20	5.0	100	6.0	100	10m#	5.0Ø	10	30	90 #	30M§Δ		500n	PE	TO61	A
87	SDT3105†	500m	3.0	§J	10	4.0	40	6.0	40	10m#	5.0Ø	5.0	30	90 #	30M§Δ		200n	PE	TO61	A
88	SDT3106†	500m	3.0	§J	10	4.0	60	6.0	60	10m#	5.0Ø	5.0	30	90 #	30M§Δ		200n	PE	TO61	A
89	SDT3107†	500m	3.0	§J	10	4.0	80	6.0	80	10m#	5.0Ø	5.0	30	90 #	30M§Δ		200n	PE	TO61	A
90	SDT3108†	500m	3.0	§J	10	4.0	100	6.0	100	10m#	5.0Ø	5.0	30	90 #	30M§Δ		200n	PE	TO61	A
91	SDT3109†	500m	3.0	§J	10	4.0	120	6.0	120	10m#	5.0Ø	5.0	30	90 #	30M§Δ		200n	PE	TO61	A
92	SDT3115	500m	87		10		40	6.0	40	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
93	SDT3116	500m	87		10		60	6.0	60	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
94	SDT3117	500m	87		10		80	6.0	80	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
95	SDT3118	500m	87		10		100	6.0	100	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
96	SDT3119	500m	87		10		120	6.0	120	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
97	ST72015	500m$	50 Ø		10		60	7.0	60	1.0uØ	2.0Ø	3.0	30	200	30M§Δ			PE	TO61	
98	ST72016	500m$	50 Ø		10		80	7.0	80	2.0uØ	2.0Ø	3.0	30	200	30M§Δ			PE	TO61	
99	ST72017	500m$	50 Ø		10		100	7.0	100	2.0uØ	2.0Ø	3.0	30	200	30M§Δ			PE	TO61	
100	TIP519	500m	4.0	§J	8.0 †	3.0	150 †	5.0†	150	1.0m§♦	4.0Ø	4.0	30	150 #	40M§Δ			PEΔ	TO3	CØ
101	TIP520	500m	3.5	§J	8.0 †	3.0	150 †	5.0†	150	1.0m§♦	4.0Ø	4.0	30	150 #	40M§Δ			PEΔ	TO61	A
102	2N6317†	515m	90 Ø	§J	7.0	2.0	60 †	5.0†	60	250u#♦	4.0Ø	2.5	20	100 #	4.0M§Δ		700nØ		TO66	CØ
103	2N6318†	515m	90 Ø	§J	7.0	2.0	80 †	5.0†	80	250u#♦	4.0Ø	2.5	20	100 #	4.0M§Δ		700nØ		TO66	CØ
104#	BD244†	520m	65 Ø	§J	6.0	3.0		5.0	45 Ø	400u§	4.0Ø	3.0	15		3.0M§Δ	250m	200nØ	D	u84	D
105#	BD244A†	520m	65 Ø	§J	6.0	3.0		5.0	60 Ø	400u§	4.0Ø	3.0	15		3.0M§Δ	250m	200nØ	D	u84	D
106#	BD244B†	520m	65 Ø	§J	6.0	3.0		5.0	80 Ø	400u§	4.0Ø	3.0	15		3.0M§Δ	250m	200nØ	D	u84	D
107#	BD244C†	520m	65 Ø	§J	6.0	3.0		5.0	100 Ø	400u§	4.0Ø	3.0	15		3.0M§Δ	250m	200nØ	D	u84	D
108	RCA42†	520m	2.0	§J	7.0	3.0	40	5.0	40	700uΔ♦	4.0Ø	3.0	15	75 #	3.0M§Δ		400nØ	E†	Y220b	XØ
109	RCA42A†	520m	2.0	§J	7.0	3.0	60	5.0	60	700uΔ♦	4.0Ø	3.0	15	75 #	3.0M§Δ		400nØ	E†	Y220b	XØ
110	RCA42B†	520m	2.0	§J	7.0	3.0	80	5.0	80	700uΔ♦	4.0Ø	3.0	15	75 #	3.0M§Δ		400nØ	E†	Y220b	XØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	RCA42C†	520m	2.0	$J	7.0	3.0	100	5.0	100	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	E†	Y220b	XØ
2	TIP42†	520m	2.0	§J	6.0 †	3.0	40 †	5.0†	40	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	u84	BØ
3	TIP42A†	520m	2.0	§J	6.0 †	3.0	60 †	5.0†	60	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	u84	BØ
4	TIP42B†	520m	2.0	§J	6.0 †	3.0	80 †	5.0†	80	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	u84	BØ
5	TIP42C†	520m	2.0	§J	6.0 †	3.0	100 †	5.0†	100	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	u84	BØ
6	MJE105	522m	65 Ø	§J	5.0	2.5	50	4.0	50	100u♦	2.0Ø	2.0	25	100					X58d	B
7	MJE105K	522m	65 Ø	§J	5.0	2.5	50	4.0	50	100u♦	2.0Ø	2.0	25	100					X104	D
8	RCA105	522m	65 Ø	§J	7.0	2.5	50	4.0	50	100u♦	2.0Ø	2.0	25	100 #				E	Y220b	L
9▼#	NAS42†	525m	2.0	§J	6.0	3.0	40	5.0	40	700u△	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	D	X75a	BØ
10▼#	NAS42A†	525m	2.0	§J	6.0	3.0	60	5.0	60	700u△	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	D	X75a	BØ
11▼#	NAS42B†	525m	2.0	§J	6.0	3.0	80	5.0	80	700u△	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	D	X75a	BØ
12▼#	NAS42C†	525m	2.0	§J	6.0	3.0	100	5.0	100	700u△	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	D	X75a	BØ
13	SDT3875	552m	96		20	4.0	40	5.0	40	100u	5.0	10	20	80	10M				TO3	
14	SDT3876	552m	96		20	4.0	80	5.0	80	100u	5.0	10	20	80	10M				TO3	
15	SDT3877	552m	96		20	4.0	40	5.0	40	100u	5.0	10	40		10M				TO3	
16#	BC460	570mØ	10	§J	2.0		50	5.0	40	100nØ	4.0Ø	500m	40	250	50M§			PE	TO39	
17#	BC461	570mØ	10	§J	2.0		75	5.0	60	100nØ	4.0Ø	500m	40	250	50M§			PE	TO39	
18#	BCX60	570mØ	10	§J	2.0		100	5.0	80		4.0Ø	500m	40	250	50M§			PE	TO39	
19	2N6053	571m	100 Ø	§J	8.0	120m	60 †	5.0†	60	500u△♦	3.0Ø	4.0	750	18k#	4.0M§△				TO3	CØ
20	2N6054	571m	100 Ø	§J	8.0	120m	80 †	5.0†	80	500u△♦	3.0Ø	4.0	750	18k#	4.0M§△				TO3	CØ
21	2N5974	600m	75 Ø	§J	5.0	2.0	60 †	5.0†	40	1.0mΔ♦	2.0Ø	2.5	20	120 #	2.0M§△				X58a	BØ
22	2N5975	600m	75 Ø	§J	5.0	2.0	80 †	5.0†	60	1.0mΔ♦	2.0Ø	2.5	20	120 #	2.0M§△				X58a	BØ
23	2N5976	600m	75 Ø	§J	5.0	2.0	100 †	5.0†	80	1.0mΔ♦	2.0Ø	2.5	20	120 #	2.0M§△				X58a	BØ
24	2N6489	600m$	30 Ø	§J	15 †	5.0	50 †	5.0†	50 #*	1.0mΔ♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			Y220b	EØ
25	2N6490	600m$	30 Ø	§J	15 †	5.0	70 †	5.0†	70 #*	1.0mΔ♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			Y220b	BØ
26	2N6491	600m$	30 Ø	§J	15 †	5.0	90 †	5.0†	90 #*	1.0mΔ♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			Y220b	BØ
27	MJE5974	600m	75 Ø	§J	5.0	2.0	60	5.0	40	1.0mΔ♦	2.0Ø	2.5	20	120	2.0M§△	240m		△	X104	D
28	MJE5975	600m	75 Ø	§J	5.0	2.0	80	5.0	60	1.0mΔ♦	2.0Ø	2.5	20	120	2.0M§△	240m		△	X104	D
29	MJE5976	600m	75 Ø	§J	5.0	2.0	100	5.0	80	1.0mΔ♦	2.0Ø	2.5	20	120	2.0M§△	240m		△	X104	D
30	MJE6040	600m	2.2	§J	8.0	120m	60	5.0	60	500u	4.0Ø	4.0	1.0k	20k	4.0M§△	500m		△	U115	B
31	MJE6041	600m	2.2	§J	8.0	120m	80	5.0	80	500u	4.0Ø	4.0	1.0k	20k	4.0M§△	500m		△	U115	B
32	MJE6042	600m	2.2	§J	8.0	120m	100	5.0	100	500u	4.0Ø	3.0	1.0k	20k	4.0M§△	666m		△	U115	B
33	RCA1C08	600m	75 Ø	§J	10	4.0	75	5.0	65	1.0m*♦	4.0Ø	4.0	20	120	5.0M§△	250m		E	Y220b	DØ
34	RCA101	600m	75 Ø	§J	7.0	3.0	40	4.0	40	100u♦	2.0Ø	2.0	25	150				E	Y220b	L
35	RCA102	600m	75 Ø	§J	7.0	3.0	60	4.0	60	100u♦	2.0Ø	2.0	25	150				E	Y220b	L
36	RCA103	600m	75 Ø	§J	7.0	3.0	60	4.0	60	100u♦	2.0Ø	1.0	30	150				E	Y220b	L
37	RCA104	600m	75 Ø	§J	7.0	3.0	80	4.0	80	100u♦	2.0Ø	1.0	30	150				E	Y220b	L
38	TIP527	600m	4.0	§J	8.0 †	2.0	200 †	5.0†	200	1.0m§♦	4.0Ø	4.0	20	100 #	40M§△			PE△	TO3	CØ
39	TIP528	600m	3.5	§J	8.0 †	2.0	200 †	5.0†	200	1.0m§♦	4.0Ø	4.0	20	100 #	40M§△			PE△	TO61	A
40#	BD246†	625m	3.0 Ø	$S	10	3.0		5.0	45	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	X86	D
41#	BD246A†	625m	3.0	$S	10	3.0		5.0	60	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	X86	D
42#	BD246B†	625m	3.0	$S	10	3.0		5.0	80	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	X86	D
43#	BD246C†	625m	3.0	$S	10	3.0		5.0	100	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	X86	D
44#	2SA649	640m	80 Ø	§J	7.0	2.0	150	5.0	100	2.0mØ	5.0Ø	3.0	30 #	120 #	10M			EM	TO3	CØ
45#	2SA758	640m	80 Ø	§	7.0	2.0	130	5.0	110	1.0mØ	5.0Ø	1.0	25	200 *	20M§			D	TO3	A
46#	2SB541	640m	80 Ø	§J	12 #		110	6.0	100	100uØ	5.0Ø	1.0	40	200 #	9.0M§			ME	TO3	CØ
47	MJE2010	640m	80 Ø	§J	5.0	3.0	40	5.0	40	400u	4.0Ø	1.0	25	125 #	3.0M§△			△	X104	D
48	MJE2011	640m	80 Ø	§J	5.0	3.0	60	5.0	60	400u	4.0Ø	1.0	25	125 #	3.0M§△			△	X104	D
49	TIP34†	640m	3.5	§J	10 †	3.0	40 †	5.0†	40	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	X86	BØ
50	TIP34A†	640m	3.5	§J	10 †	3.0	60 †	5.0†	60	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	X86	BØ
51	TIP34B†	640m	3.5	§J	10 †	3.0	80 †	5.0†	80	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	X86	BØ
52	TIP34C†	640m	3.5	§J	10 †	3.0	100 †	5.0†	100	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	X86	BØ
53	2N5741	650m$	65 Ø	§J	20	4.0	60 †	5.0†	60	500u△♦	5.0Ø	10	20	80	10M§△	250m			TO3	CØ
54	2N5742	650m$	65 Ø	§J	20	4.0	100 †	5.0†	100	500u△♦	5.0Ø	10	20	80	10M§△	250m			TO3	CØ
55	MJ2901	657m	115 Ø	§J	15	7.0	50	7.0	40	5.0m	4.0Ø	8.0	15	60 #	1.0M§△			△	TO3	CØ
56	2N5871†	658m	115 Ø	§J	7.0	2.0	60 †	5.0†	60	250u♦	4.0Ø	2.5	20	100	4.0M§△	250m	700nØ		TO3	CØ
57	2N5872†	658m	115 Ø	§J	7.0	2.0	80 †	5.0†	80	250u♦	4.0Ø	2.5	20	100	4.0M§△	250m	700nØ		TO3	CØ
58	2N5853	660m$	66 Ø	§J	10	3.0	100	6.0	80	500u§	5.0Ø	5.0	30	90	15M§△	150m			TO61	A
59	2N5854	660m$	66 Ø	§J	10	3.0	100	6.0	80	500u§	5.0Ø	5.0	30	90	20M§△	150m			TO61	A
60	2N5007	666m#	100 Ø	§J	10	3.0	100	5.5	80	1.0m#	5.0Ø	5.0	30	90 #	30M§△				MT16a	A
61	2N5009	666m#	100 Ø	§J	10	3.0	100	5.5	80	1.0m#	5.0Ø	5.0	70	200 #	40M§△				MT16a	A
62	2N5290	666m#	100 Ø	§J	10	3.0	100	5.5	100	1.0m#	5.0Ø	5.0	30	90 #	30M§△				MT16a	A
63	2N5291	666m#	100 Ø	§J	10	3.0	100	5.5	100	1.0m#	5.0Ø	5.0	70	200 #	40M§△				MT16a	A
64#	BDX18	666m	117 Ø	§J	15 †	7.0	100 †	7.0	60	5.0m#♦	4.0Ø	4.0	20	70 #	800k§△			H△	TO3	CØ
65#	BDX20	666m	117 Ø	§J	10 †	7.0	160 †	7.0	140	1.0mØ♦	4.0Ø	3.0	20	70	800k§△	333m		H△	TO3	CØ
66#	NKT4055	666m	115 Ø	§J	15		100	5.0	60		4.0Ø	4.0 Ø	20	70	800k§			PL	TO3	AØ
67	2N5621	667m#	100 Ø	§J	10	3.0	80 †	5.5†	60	1.0m#♦	5.0Ø	5.0	70	200 #	40M§△				TO3	CØ
68	2N5623	667m#	100 Ø	§J	10	3.0	100 †	5.5†	80	1.0m#♦	5.0Ø	5.0	30	90 #	30M§△				TO3	CØ
69	2N5625	667m#	100 Ø	§J	10	3.0	100 †	5.5†	80	1.0m#♦	5.0Ø	5.0	70	200 #	40M§△				TO3	CØ
70	2N5627	667m#	100 Ø	§J	10	3.0	120 †	5.5†	100	1.0m#♦	5.0Ø	5.0	30	90 #	30M§△				TO3	CØ
71	2N6127	670m$	67 Ø	§J	10 †	3.0	100 †	5.0†	80	100uA♦	5.0Ø	5.0	30	120 #	40M§△				TO61	A
72	2N6246	714m	125 Ø	§J	15	5.0	70 †	5.0†	60 ☑	1.0mΔ	4.0Ø	7.0	20	100	10M§△	166m			TO3	CØ
73	2N6247	714m	125 Ø	§J	15	5.0	90 †	5.0†	80 ☑	1.0mΔ♦	4.0Ø	6.0	20	100	10M§△	233m			TO3	CØ
74	2N6248	714m	125 Ø	§J	10	5.0	110 †	5.0†	105 §	1.0mΔ♦	4.0Ø	5.0	20	100	10M§△	35			TO3	CØ
75#	BD214-45	714m	90 Ø	§J	15	7.0	45	7.0	45 *	100u	2.0Ø	5.0	25 #		3.0M§△			H†	u97	BØ
76#	BD214-60	714m	90 Ø	§J	15	7.0	60	7.0	60 *	100u	2.0Ø	5.0	25 #		3.0M§△			H†	u97	BØ
77#	BD214-80	714m	90 Ø	§J	15	7.0	80	7.0	80 *	100u	2.0Ø	5.0	15 #		3.0M§△			H†	u97	BØ
78	2N6469	715m$	71 Ø	§J	15 †	5.0	50 †	5.0†	50 #*	1.0mΔ♦	4.0Ø	5.0	20	150 #	10M§△	233m#			TO3	CØ
79	MJE2955	718m	90 Ø	§J	10	6.0	70	5.0	60	1.0m♦	4.0Ø	4.0	20	70 #	2.0M§△			△	X58d	B
80	MJE2955K	718m	90 Ø	§J	10	6.0	70	5.0	60	1.0m♦	4.0Ø	4.0	20	70 #	2.0M§△			△	X104	D
81#	TIP5530	719m	90 Ø	$S	15	7.0	100	7.0	60	700u§	4.0Ø	4.0	20			275m		D△	X86	D
82	2N5980	720m	90 Ø	§J	8.0	3.0	60 †	5.0†	40	1.0mΔ♦	2.0Ø	4.0	20	120 #	2.0M§△				X58a	BØ
83	2N5981	720m	90 Ø	§J	8.0	3.0	80 †	5.0†	60	1.0mΔ♦	2.0Ø	4.0	20	120 #	2.0M§△				X58a	BØ
84	2N5982	720m	90 Ø	§J	8.0	3.0	100 †	5.0†	80	1.0mΔ♦	2.0Ø	4.0	20	120 #	2.0M§△				X58a	BØ
85	MJE1290	720m	90 Ø	§J	15	5.0	40	5.0	40	700u	4.0Ø	5.0	20	100 #	3.0M§△			△	X58a	B
86	MJE1291	720m	90 Ø	§J	15	5.0	60	5.0	60	700u	4.0Ø	5.0	20	100 #	3.0M§△			△	X58a	B
87	MJE2901	720m	90 Ø	§J	10	5.0	60	4.0	60	100u♦	2.0Ø	3.0	25	100					X58d	B
88	MJE2901K	720m	90 Ø	§J	10	5.0	60	4.0	60	100u♦	2.0Ø	3.0	25	100					X104	D
89	MJE5980	720m	90 Ø	§J	8.0	3.0	60	5.0	40	1.0mΔ♦	2.0Ø	4.0	20	120 #	2.0M§△			△	X104	D
90	MJE5981	720m	90 Ø	§J	8.0	3.0	80	5.0	60	1.0mΔ♦	2.0Ø	4.0	20	120 #	2.0M§△			△	X104	D
91	MJE5982	720m	90 Ø	§J	8.0	3.0	100	5.0	80	1.0mΔ♦	2.0Ø	4.0	20	120 #	2.0M§△			△	X104	D
92	TIP2955†	720m	3.5	§J	15 †	7.0	100 †	7.0†	70	1.0m*♦	4.0Ø	4.0	20	70 #			400nØ	DM	X86	BØ
93	2N5986	800m	100 Ø	§J	12	4.0	60 †	5.0†	40	2.0mΔ♦	2.0Ø	6.0	20	120 #	2.0M§△				X58a	BØ
94	2N5987	800m	100 Ø	§J	12	4.0	80 †	5.0†	60	2.0mΔ♦	2.0Ø	6.0	20	120 #	2.0M§△				X58a	BØ
95	2N5988	800m	100 Ø	§J	12	4.0	100 †	5.0†	80	2.0mΔ♦	2.0Ø	6.0	20	120 #	2.0M§△				X58a	BØ
96▼#	2SA679	800m	100 Ø	§J	12	12 Ø	120	5.0	120	100uØ	5.0Ø	2.0	40	140	6.0M§	330m		DM	TO3	CØ
97▼#	2SA680	800m	100 Ø	§J	12	12 Ø	100	5.0	100	100uØ	5.0Ø	2.0	40	140	6.0M§	330m		DM	TO3	CØ
98#	2SA699	800m	10 Ø	§J	3.0 #	600m	40	5.0	20	1.0uØ	5.0Ø	1.0	30	220	150M§	500m		PE	X51b	B
99#	2SA699A	800m	10 Ø	§J	3.0 #	600m	50	5.0	40	1.0uØ	5.0Ø	1.0	30	220	150M§	500m		PE	X51b	B
100#	2SA753	800m	100 Ø	$	10	2.0	140	5.0	110	1.0mØ	5.0Ø	1.0	30	200 *	20M§			D	TO3	A
101#	2SB539	800m	100 Ø	§J	15 #		130	6.0	120	100uØ	5.0Ø	2.0	40	200 #	8.0M§			ME	TO3	CØ
102	2N4907	833m	150 Ø	§J	10	7.0	40	5.0	40	2.0m#	4.0Ø	4.0	20	80	4.0M§	200m			TO3	CØ
103	2N4908	833m	150 Ø	§J	10	7.0	60	5.0	60	2.0m#	4.0Ø	4.0	20	80	4.0M§	200m			TO3	CØ
104	2N4909	833m	150 Ø	§J	10	7.0	80	5.0	80	2.0m#	4.0Ø	4.0	20	80	4.0M§	200m			TO3	CØ
105	2N3789	854m	150 Ø	§J	10	4.0	60	7.0	60	5.0m#†	2.0Ø	1.0	25	90	30k△	250m			TO3	CØ
106	2N3790	854m	150 Ø	§J	10	4.0	80	7.0	80	5.0m#†	2.0Ø	1.0	25	90	30k△	250m			TO3	CØ
107	2N3791	854m	150 Ø	§J	10	4.0	80	7.0	60	5.0m#†	2.0Ø	1.0	25	180	30k△	200m			TO3	CØ
108	2N3792	854m	150 Ø	§J	10	4.0	80	7.0	80	5.0m#†	2.0Ø	1.0	50	180	30k△	200m			TO3	CØ
109	MJ450	854m	150 Ø	§J	30	5.0	40	5.0	40	1.0m	2.0Ø	10	20 #		2.0M§△			△	MD6d	CØ
110	MJ2940	854m	150 Ø	§J	10	4.0	60	4.0	60	100u	2.0Ø	3.0	20	100 #	4.0M§△				MD6c	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M A X	T E M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	MJ2941	854m	150 Ø		$J	10	4.0	80	4.0	80	100u	2.0Ø	4.0	20	100 #	4.0M$Δ				MD6c		CØ
2	JAN2N3791†	857m	150 Ø		$J	10	4.0	60	7.0	60	1.0m§	2.0Ø	3.0	30	120 #	4.0M$Δ	200m#	1.5uØØ		TO3		CØ
3	JAN2N3792†	857m	150 Ø		$J	10	4.0	80	7.0	80	1.0m§	2.0Ø	3.0	30	120 #	4.0M$Δ	200m#	1.5uØØ		TO3		CØ
4	2N5875†	857m	150 Ø		$J	10	4.0	60 †	5.0†	60	500u♦	4.0Ø	4.0	20	100	4.0M$Δ	200m	700nØ		TO3		CØ
5	2N5876†	857m	150 Ø		$J	10	4.0	80 †	5.0†	80	500u♦	4.0Ø	4.0	20	100	4.0M$Δ	200m	700nØ		TO3		CØ
6	2N6050	857m	150 Ø		$J	12	200m	60 †	5.0†	60	1.0mΔ♦	3.0Ø	6.0	750	18k#	4.0M$Δ				TO3		CØ
7	2N6051	857m	150 Ø		$J	12	200m	80 †	5.0†	80	1.0mΔ♦	3.0Ø	6.0	750	18k#	4.0M$Δ				TO3		CØ
8	2N6052	857m	150 Ø		$J	12	200m	100 †	5.0†	100	1.0mΔ♦	3.0Ø	6.0	750	18k#	4.0M$Δ				TO3		CØ
9	2N6226	857m	150 Ø		$J	6.0	4.0	100 †	7.0†	100	1.0m♦	2.0Ø	3.0	25	100 #					MD6j		CØ
10	2N6227	857m	150 Ø		$J	6.0	4.0	120 †	7.0†	120	1.0m♦	2.0Ø	3.0	20	80* #					MD6j		CØ
11	2N6228	857m	150 Ø		$J	6.0	4.0	140 †	7.0†	140	1.0m♦	2.0Ø	3.0	15	60 #					MD6j		CØ
12	2N6229	857m	150 Ø		$J	10	5.0	100 †	7.0†	100	1.0m♦	2.0Ø	5.0	25	100 #					TO3		CØ
13	2N6230	857m	150 Ø		$J	10	5.0	120 †	7.0†	120	1.0m♦	2.0Ø	5.0	20	80 #					TO3		CØ
14	2N6231	857m	150 Ø		$J	10	5.0	140 †	7.0†	140	1.0m♦	2.0Ø	5.0	15	60 #					TO3		CØ
15	TIP544	857m	5.0		$J	6.0 †	4.0	100 †	7.0†	100	1.0m♦	2.0Ø	3.0	25	100 #	1.0M$Δ			DMΔ	TO3		CØ
16	TIP545	857m	5.0		$J	6.0 †	4.0	120 †	7.0†	120	1.0m♦	2.0Ø	3.0	20	80 #	1.0M$Δ			DMΔ	TO3		CØ
17	TIP546	857m	5.0		$J	6.0 †	4.0	140 †	7.0†	140	1.0m♦	2.0Ø	3.0	15	60 #	1.0M$Δ			DMΔ	TO3		CØ
18	MJ2955	860m	150 Ø		$J	15	7.0	100	7.0	60	700uΔ	4.0Ø	4.0	20	70 #	4.0M$Δ			Δ	TO3		CØ
19	MJ2267	866m	150 Ø		$J	5.0	3.0	40	5.0	40	1.0m#	2.0Ø	1.0	20		3.0M$Δ				TO3		CØ
20	MJ2268	866m	150 Ø		$J	5.0	3.0	55	5.0	55	1.0m§	2.0Ø	1.0	20		3.0M$Δ				TO3		CØ
21	2N5879†	915m	160 Ø		$J	15	5.0	60 †	5.0†	60	500u♦	4.0Ø	6.0	20	100	4.0M$Δ	142m	700nØ		TO3		CØ
22	2N5880†	915m	160 Ø		$J	15	5.0	80 †	5.0†	80	500u♦	4.0Ø	6.0	20	100	4.0M$Δ	142m	700nØ		TO3		CØ
23	2N6285	915m	160 Ø		$J	20	500m	60 †	5.0†	60	1.0mΔ♦	3.0Ø	10	750	18k#	4.0M$Δ				MD21b		CØ
24	2N6286	915m	160 Ø		$J	20	500m	80 †	5.0†	80	1.0mΔ♦	3.0Ø	10	750	18k#	4.0M$Δ				MD21b		CØ
25	2N6287	915m	160 Ø		$J	20	500m	100 †	5.0†	100	1.0mΔ♦	3.0Ø	10	750	18k#	4.0M$Δ				MD21b		CØ
26	2N5678†	1.0 $	100 Ø		$J	20	2.0	125 †	6.0†	100	2.0uØ♦	5.0Ø	10	25	75 #	20M$Δ		500nØ		TO63		AØ
27♦	2N5958†	1.0 $	100 Ø$		$J	20	2.0	100 †	10†	100	500u♦	10Ø	10	30	120 #	10M$Δ	100m#	1.1uØØ		TO61		AØ
28	JAN2N5958†	1.0 #	150 Ø		$J	20		100	10	100 *	100u§	10Ø	10	30	120 #	10M$Δ	90m#	1.1uØØ		MT50a		AØ
29♦	2N5960†	1.0 $	100 Ø$		$J	20	2.0	100 †	10†	100	500u♦	10Ø	10	30	120 #	10M$Δ	100m#	1.1uØØ		TO61		A
30	JAN2N5960†	1.0 #	150 Ø		$J	20		100	10	100 *	100u§	10Ø	10	30	120 #	10M$Δ	90m#	1.1uØØ		MT50a		A
31#	BD250†	1.0	3.0		$S	25	5.0		5.0	45	700u§	4.0Ø	5.0	20 #		3.0M$Δ	120m	200nØ	D	X86		D
32#	BD250A†	1.0	3.0		$S	25	5.0		5.0	60	700u§	4.0Ø	5.0	20 #		3.0M$Δ	120m	200nØ	D	X86		D
33#	BD250B†	1.0	3.0		$S	25	5.0		5.0	80	700u§	4.0Ø	5.0	20 #		3.0M$Δ	120m	200nØ	D	X86		D
34#	BD250C†	1.0	3.0		$S	25	5.0		5.0	100	700u§	4.0Ø	5.0	20 #		3.0M$Δ	120m	200nØ	D	X86		D
35	SDT3601	1.0	175			60	10	40	5.0	40	10u	10	40	10	40	25M			PL			
36	SDT3602	1.0	175			60	10	60	5.0	60	10u	10	40	10	40	25M			PL			
37	SDT3603	1.0	175			60	10	80	5.0	80	10u	10	40	10	40	25M			PL			
38	SDT3604	1.0	175			60	10	100	5.0	100	10u	10	40	10	40	25M			PL			
39	ST10007†	1.0 #	150 #$		$J	30		80	8.0	80 *	100uØ	10Ø	10	30	120 #	20M$Δ		500nØ	PL	TO63		
40	ST10008†	1.0 #	150 #$		$J	30		100	8.0	100 *	100uØ	10Ø	10	30	120 #	20M$Δ		500nØ	PL	TO63		
41	ST10009†	1.0 #	150 #$		$J	30		120	8.0	120 *	100uØ	10Ø	10	30	120 #	20M$Δ		500nØ	PL	TO63		
42	ST72018	1.0 $	100 Ø			20		40	7.0	40	.01mØ	5.0Ø	10	20	200	10M$Δ			PE	TO63		
43	ST72019	1.0 $	100 Ø			20		60	7.0	60	.01mØ	5.0Ø	10	20	200	10M$Δ			PE	TO63		
44	ST72020	1.0 $	100 Ø			20		80	7.0	80	.01mØ	5.0Ø	10	20	200	10M$Δ			PE	TO63		
45	ST72021	1.0 $	100 Ø			20		100	7.0	100	.01mØ	5.0Ø	10	20	200	10M$Δ			PE	TO63		
46	TIP36†	1.0	3.5		$J	25 †	5.0	40 †	5.0†	40	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M$Δ		1.1uØ	DM	X86		BØ
47	TIP36A†	1.0	3.5		$J	25 †	5.0	60 †	5.0†	60	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M$Δ		1.1uØ	DM	X86		BØ
48	TIP36B†	1.0	3.5		$J	25 †	5.0	80 †	5.0†	80	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M$Δ		1.1uØ	DM	X86		BØ
49	TIP36C†	1.0	3.5		$J	25 †	5.0	100 †	5.0†	100	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M$Δ		1.1uØ	DM	X86		BØ
50	2N4398†	1.1	200 Ø		$J	30	7.5	40 †	5.0†	40	1.0m♦	4.0Ø	15	15	60 #	4.0M$Δ		400nØ		MD6f		CØ
51	2N4399†	1.1	200 Ø		$J	30	7.5	60 †	5.0†	60	1.0m♦	4.0Ø	15	15	60 #	4.0M$Δ		400nØ		MD6f		CØ
52	JAN2N4399†	1.1	200 Ø		$A	30	7.5	60	5.0	60	1.0m	2.0Ø	15	15	60 #	4.0M$Δ		400nØØ		TO3		CØ
53	2N5745†	1.1	200 Ø		$J	20	7.5	80 †	5.0†	80	1.0m♦	2.0Ø	10	15	60 #	2.0M$Δ		1.0uØ		MD6f		CØ
54	JAN2N5745†	1.1	200 Ø		$A	20	7.5	80	5.0	80	1.0m	2.0Ø	10	15	60 #	2.0M$Δ		1.0uØØ		TO3		CØ
55	2N5883†	1.1	200 Ø		$J	25	7.5	60 †	5.0†	60	1.0m♦	4.0Ø	10	20	100	4.0M$Δ	66m	700nØ		TO3		CØ
56	2N5884†	1.1	200 Ø		$J	25	7.5	80 †	5.0†	80	1.0m♦	4.0Ø	10	20	100	4.0M$Δ	66m	700nØ		TO3		CØ
57	2N6029	1.1	200 Ø		$J	16	5.0	100 †	7.0†	100	2.0m♦	2.0Ø	8.0	25	100 #					MD21b		CØ
58	2N6030	1.1	200 Ø		$J	16	5.0	120 †	7.0†	120	2.0m♦	2.0Ø	8.0	20	80 #					MD21b		CØ
59	2N6031	1.1	200 Ø		$J	16	5.0	140 †	7.0†	140	2.0m♦	2.0Ø	8.0	15	60 #					MD21b		CØ
60	2N6329	1.1 $	114 Ø		$J	30	10	60 †	5.0†	60	1.0mΔ♦	4.0Ø	30	6.0	30 #	3.0M$Δ				TO3		CØ
61	2N6330	1.1 $	114 Ø		$J	30	10	80 †	5.0†	80	1.0mΔ♦	4.0Ø	30	6.0	30 #	3.0M$Δ				TO3		CØ
62	2N6331	1.1 $	114 Ø		$J	30	10	100 †	5.0†	100	1.0mΔ♦	4.0Ø	30	6.0	30 #	3.0M$Δ				TO3		CØ
63	2N6436	1.1	200 Ø		$J	25	10	100 †	6.0†	80	10u♦	2.0Ø	10	20	80 #	40M$Δ		300nØ		TO3		CØ
64	2N6437	1.1	200 Ø		$J	25	10	120 †	6.0†	100	10u♦	2.0Ø	10	20	80 #	40M$Δ		300nØ		TO3		CØ
65	2N6438	1.1	200 Ø		$J	25	10	140 †	6.0†	120	10u♦	2.0Ø	10	20	80 #	40M$Δ		300nØ		TO3		CØ
66	MJ4502	1.1	200 Ø		$J	30	7.5	100	4.0	90	1.0m	2.0Ø	7.5	25	100 #	2.0M$Δ				MD6d		CØ
67	ST29045	1.1	150 Ø		§	30	8.0	70	10	40	500u	10	15	30	150	10M	130m		PE	TO3		
68	ST29046	1.1	150 Ø		§	30	8.0	90	10	60	500u	10	15	30	150	10M	130m		PE	TO3		
69	ST29047	1.1	150 Ø		§	30	8.0	110	10	80	500u	10	15	30	150	10M	130m		PE	TO3		
70	ST29048	1.1	150 Ø		§	20	6.0	70	10	40	500u	10	10	30	150	10M	130m		PE	TO3		
71	ST29049	1.1	150 Ø		§	20	6.0	90	10	60	500u	10	10	30	150	10M	130m		PE	TO3		
72	ST29050	1.1	150 Ø		§	20	6.0	110	10	80	500u	10	10	30	150	10M	130m		PE	TO3		
73♦	2N5967†	1.2 $	125 $Ø		$J	30	5.0	100 †	10†	100	500u♦	10Ø	10	25	120 #	10M$Δ	80m#	1.1uØØ		TO63		AØ
74	JAN2N5967†	1.2 #	187 Ø		$J	30		100	10	100	100u§	10Ø	15	25	100 #	10M$Δ	80m#	1.1uØØ		TO63		AØ
75♦	2N5969†	1.2 $	125 $Ø		$J	30	5.0	100 †	10†	100	500u♦	10Ø	10	25	120 #	10M$Δ	80m#	1.1uØØ		TO63		A
76	JAN2N5969†	1.2 #	187 Ø		$J	30		100	10	100	100u§	10Ø	15	25	100 #	10M$Δ	80m#	1.1uØØ		TO63		A
77	SDT3901	1.2	220			60	10	40	5.0	40	10u	10	40	10	40	25M				TO114		
78	SDT3902	1.2	220			60	10	60	5.0	60	10u	10	40	10	40	25M				TO114		
79	SDT3903	1.2	220			60	10	80	5.0	80	10u	10	40	10	40	25M				TO114		
80	SDT3904	1.2	220			60	10	80	5.0	80	10u	10	40	10	40	25M				TO114		
81	2N6377†	1.4	250 Ø		$J	50	20	100 †	6.0†	80	50uΔ♦	4.0Ø	20	30	120 #	30M$Δ		350nØ		MD21b		CØ
82	2N6378†	1.4	250 Ø		$J	50	20	120 †	6.0†	100	50uΔ♦	4.0Ø	20	30	120 #	30M$Δ		350nØ		MD21b		CØ
83	2N6379†	1.4	250 Ø		$J	50	20	140 †	6.0†	120	50uΔ♦	4.0Ø	20	30	120 #	30M$Δ		350nØ		MD21b		CØ
84	2N6380†	1.4	250 Ø		$J	50	20	100 †	6.0†	80	50uΔ♦	4.0Ø	20	30	120 #	30M#Δ		350nØ		TO63		AØ
85	2N6381†	1.4	250 Ø		$J	50	20	120 †	6.0†	100	50uΔ♦	4.0Ø	20	30	120 #	30M$Δ		350nØ		TO63		AØ
86	2N6382†	1.4	250 Ø		$J	50	20	140 †	6.0†	120	50uΔ♦	4.0Ø	20	30	120 #	30M$Δ		350nØ		TO63		AØ
87♦	2N6061†	1.5 $	150 $Ø		$J	50	10	100 †	10†	100	500u♦	10Ø	20	25	120 #	10M$Δ	55m#	1.5uØØ		TO63		AØ
88	JAN2N6061†	1.5 #	250 Ø		$J	50		100	10	100	200u§	10Ø	30	20	100 #	10M$Δ		1.5uØØ		TO63		AØ
89♦	2N6063†	1.5 $	150 $Ø		$J	50		100 †	10†	100	500u♦	10Ø	20	25	120 #	10M$Δ	55m#	1.5uØØ		TO63		A
90	JAN2N6063†	1.5 #	250 Ø		$J	50		100	10	100	200u§	10Ø	30	20	100 #	10M$Δ		1.5uØØ		TO63		A
91#	2SB530	1.5	80 Ø		$J	8.0		110	5.0	100	100uØ	5.0Ø	1.0	40	240				EM	TO3		
92	2N5683	1.7	300 Ø		$J	50	15	60	5.0	60	2.0m	2.0Ø	25	15	60 #	2.0M$Δ				MD6d		CØ
93	JAN2N5683†	1.7	300 Ø		$S	50	15	60	5.0	60	2.0m	2.0Ø	25	15	60 #	2.0M$Δ		1.5uØØ		MD10g		CØ
94	2N5684	1.7	300 Ø		$J	50	15	80	5.0	80	2.0m	2.0Ø	25	15	60 #	2.0M$Δ				MD6d		CØ
95	JAN2N5684†	1.7	300 Ø		$S	50	15	80	5.0	80	2.0m	2.0Ø	25	15	60 #	2.0M$Δ		1.5uØØ		MD10g		CØ
96	ET1550	2.0	150 Ø		#J	7.0	3.0	45		40 §	1.0mØ	2.0Ø	3.0	40	250		400m			TO3		CØ
97	ET1551	2.0	150 Ø		#J	7.0	3.0	60		50 §	1.0mØ	2.0Ø	3.0	40	250		400m			TO3		CØ
98	PP7535	2.0	140 Ø		§	20	10	150	7.0	90		5.0Ø	12	20	100	60M$Δ	50m		PE	TO3		CØ
99	PP7536	2.0	140 Ø		§	20	10	120	7.0	75		5.0Ø	10	20	100	60M$Δ	75m		PE	TO3		CØ
100	ST29051	2.3	85 Ø		§	10	4.0	70	10	40	500u	10	5.0	30	150	10M	130m		PE	TO3		
101	ST29052	2.3	85 Ø		§	10	4.0	90	10	60	500u	10	5.0	30	150	10M	130m		PE	TO3		
102	ST29053	2.3	85 Ø		§	10	4.0	110	10	80	500u	10	5.0	30	150	10M	130m		PE	TO3		
103#	2SA739	2.5	50 Ø		$J	3.0		400	5.0	400	100uØ	5.0Ø	500m	20	300				DM	TO3		C
104#	2SB531	2.5	50 Ø		$J	6.0		90	5.0	80	100uØ	5.0Ø	1.0	40	240				EM	TO3		

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	CEOADE
1	2N2239		1.0 Ø	#J	500m		60		50	10uØ	10	200m	50 Ø	†	2.5M†				T037	AØ
2	2N3263†			§J			150	7.0	90 §	20m#	2.0Ø	15	20	55 #	20M§△		500nØØ		X21	DØ
3	2N3264†			§J			120	7.0	60 §	20m#	3.0Ø	15	20	80 #	20M§△		500nØØ		X21	DØ
4	2N3265†			§J			150	7.0	90 §	20m#	2.0Ø	15	20	55 #	20M§△		500nØØ		T063	AØ
5	2N3266†			§J			120	7.0	60 §	20m#	3.0Ø	15	20	80 #	20M§△		500nØØ		T063	AØ
6#	2SC517		10 Ø	§J	2.0		60	4.0	60	10uØ	5.0Ø	500	10	140	300k§			PE	T037	A
7#	2SC571		6.0 Ø	§J	1.5		36	4.0	18	5.0uØ	13Ø	100m	30 Ø		250M§			PE	T039	Ø
8#	2SC572		10 Ø	§J	3.0		36	4.0	18	5.0uØ	13Ø	200m	30 Ø		250M§			PE	T060	ØØ
9#	2SC573		20 Ø	§J	4.0		36	4.0	18	10uØ	13Ø	400m	40 Ø		250M§			PE	T060	Ø
10#	2SC680		8.0 Ø		2.0	1.0	200	6.0	120		10Ø	.20	60	240					T066	
11#	2SC680A		8.0 Ø		2.0	1.0	200	6.0	140		10Ø	.20	45	180					T066	
12#	2SC681		50 Ø		6.0		200	5.0	70	15m							.20u#		T03	
13#	2SC681A		50 Ø		6.0		250	5.0	80								.20u#		T03	
14#	2SC685A		6.5 Ø		.10		300	4.0	300		10Ø	.05	30	160	25M§				T066	
15#	2SC756		10 Ø	§J	4.0	800m	130	6.0	40	3.0uØ	2.0Ø	100m	80 Ø		60M§	450m		EM	T05	Ø
16#	2SC792		50 Ø	§J	1.5		400	5.0	300	50uØ	10Ø	300m	30	200	10M§			DM	T03	C
17#	2SC795		9.0 Ø	§J	100m	10m	250	6.0	200	10uØ	10Ø	10m	70 Ø					D	MD17	Ø
18#	2SC806A		125 Ø	§J	5.0		630	10		100uØ	3.0Ø	2.0	12	92	3.0M§△	750m		DM	T03	
19#	2SC807A		125 Ø	§J	5.0		195	8.0		100uØ	3.0Ø	100m	30		3.0M§△	1.6		DM	T03	
20#	2SC821		1.7 Ø	§J	600m		40	4.0	20	1.0uØ	13Ø	100m	20		350M§			PE	T039	
21#	2SC822		2.5 Ø	§J	800m		40	4.0	20	1.0uØ	13Ø	100m	20		400M§			PE	T039	
22#	2SC833		25	§J	2.0		450	6.0	300	.10mØ	10Ø	.10	40	80 Ø	20M§			ME	T066	
23#	2SC897		60 Ø	§J	7.0	2.0	150	6.0	90	1.0mØ	5.0Ø	1.0	25	200	15M§			D	T03	
24#	2SC898		80 Ø		7.0	7 Ø	150	5.0	100	1.0m	5.0Ø	1.0	25	200					T03	
25#	2SC935				2.5 Ø	2.5 Ø	300	5.0	300	5.0m	10Ø	.30	8.0						T03	
26#	2SC936		12		1.0		1.0k	5.0	500	1.0m	10Ø	100m	30	120					T03	
27#	2SC937		22 Ø		2.5	2.5 Ø	1.2k	6.0	500	5.0m		300m	8.0	120					T03	
28#	2SC984		350m	§J	500m		50	4.0	50	500nØ	3.0Ø	10m	40	320	100M§			PE	T01	A
29#	2SC996		1.2	§J	100m		300	5.0	300	100nØ	10Ø	50m	80 Ø		100M§			DPL	T037	A
30#	2SC1001		5.0 Ø	§J	500m		36	4.0	18	10uØ	2.0Ø	100m	10	250	800M§			PE	T05	A
31#	2SC1024		25 Ø	§J	3.0		60	4.0	50	1.0m	2.0Ø	1.0	70 Ø					ME	T066	
32#	2SC1025		25 Ø	§J	3.0		120	4.0	80	1.0m	4.0Ø	200m	80 Ø					ME	T066	
33#	2SC1030		50 Ø	§J	6.0		150	6.0	80	1.0mØ	5.0Ø	1.0	35	200	10M§			D	T03	
34#	2SC1034		125 Ø	§J	1.0		1.0k	13		100uØ	3.0Ø	750m	4.0	40	5.0M§	6.7		DM	MD40	C
35#	2SC1050		40 Ø	§J	1.0		300	6.0	300	1.0mØ	5.0Ø	300m	40	320	5.0M§			DM	T03	CØ
36#	2SC1051		60 Ø	§J	7.0		150	6.0	100	1.0mØ	5.0Ø	1.0	40	320	8.0M§			D	T03	CØ
37#	2SC1059		8.0 Ø	§J	150m		300	4.0	300 §		10Ø	50m	30	160	20M§			D	T066	
38#	2SC1060		25 Ø	§J	3.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320	8.0M§			D†	X75	
39#	2SC1061		25 Ø	§J	3.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320	8.0M§			D†	X75a	
40#	2SC1077		50 Ø	§J	5.0		65	4.0	65 §	1.0mØ	10Ø	1.0	20	40 Ø	150M§			PE	MT83b	V
41#	2SC1120		10 Ø	§J	1.5	1.5 Ø	35	4.0	20	5.0u	5.0Ø	500m	20	40 Ø	700M§			PE	MT83	V
42#	2SC1121		20 Ø	§J	3.0	3.0 Ø	35	4.0	20	25u	5.0Ø	1.0	20	40 Ø	500M§			PE	MT83	V
43#	2SC1162		8.0 Ø	§J	1.5		35	5.0	35	10uØ	2.0Ø	200m	35	320	10M§			D†	X58	
44#	2SC1167		50	§J	1.5		1.2k	5.0	500	10uØ	10Ø	500m	10	50	4.0M§			ME	T03	CØ
45#	2SC1168		12	§J	150m		300	5.0	300	100nØ	10Ø	50m	100 Ø		100M§			PL	T066	
46#	2SC1170		50 Ø	§J	3.5		1.2k	5.0	500	10uØ	10Ø	3.0	5.0	30	4.0M§			ME	T03	C
47#	2SC1172		50 Ø	§J	5.0		1.5k	5.0	600	10uØ	10Ø	2.0	10	50	5.0M§			DM	T03	C
48#	2SC1173		10 Ø	§J	3.0		30	5.0	25	10uØ	1.0Ø	500m	40	400	150M§			D	X75	A
49#	2SC1174		50 Ø	§J	3.5		1.2k	6.0	500								1.2u#	D	T03	
50#	2SC1200		2.5 Ø	§J	180m		40	3.5	20	1.0uØ	5.0Ø	100m	20	250	1.7G§			PE	MM20	A
51#	2SC1212		8.0 Ø	§J	1.0		50	4.0	50	5.0u	4.0Ø	50m	40	320	10M§			D†	X58	
52#	2SC1212A		8.0 Ø	§J	1.0		80	4.0	80	5.0uØ	4.0Ø	50m	40	320	10M§			D†	X58	
53#	2SC1213		400m	♦J	500m		35	4.0	35	500nØ	3.0Ø	10m	40	320				PE†		
54#	2SC1213A		400m	♦J	500m		50	4.0	50	500nØ	3.0Ø	10m	40	320				PE†		
55#	2SC1214		600m	♦J	500m		50	4.0	50	500nØ	3.0Ø	10m	40	320				PE†		
56#	2SC1235		6.5 §	§J	100m		300	4.0	300	5.0uØ	10Ø	50m	30	160	60M§			DM	T066	
57#	2SC1242A		20 Ø	§J	4.5		35	3.5	18	100uØ	5.0Ø	1.5	10	200				PE	MT106	GC
58#	2SC1295		40 Ø	§J	2.0		1.0k	7.0	350	100uØ	5.0Ø	1.5	3.0	13				D	T03	CØ
59#	2SC1308		50 Ø	§J	7.0		1.5k	6.0	400	100uØ	5.0Ø	4.0	3.0					D	T03	CØ
60#	2SC1348		125 Ø	♦J	4.0		1.0k$	14		2.0mØ	3.0Ø	2.0	4.5	19	5.0M§				T03	CØ
61#	2SC1367		50 Ø	♦	1.0		1.0k	5.0	600	1.0m	10Ø	200m	30	120				D	T03	B
62#	2SC1367A		50 Ø	♦	1.0		1.0k	5.0	700	1.0m	10Ø	200m	30	120				D	T03	B
63#	2SC1368		8.0 Ø	$	1.5		25	5.0	25	20uØ	2.0Ø	500m	60	320	180M§			D	TO126	B
64#	2SC1402		70 Ø	§J	8.0	3.0	140	6.0	80	1.0m	4.0Ø	3.0	30		10M§	500m		D	T03	CØ
65#	2SC1403		70 Ø	§J	8.0	3.0	160	6.0	100	1.0m	4.0Ø	3.0	30		10M§	500m		D	T03	CØ
66#	2SC1413		50 Ø	$	5.0		1.2k	6.0	500	1.0m							2.3u#	D	T03	B
67#	2SC1413A		50 Ø	$	5.0		1.5k	6.0	500	1.0m							2.3u#	D	T03	B
68#	2SC1444		40 Ø	§J	6.0	3.0	80	6.0	60	1.0m	4.0Ø	1.0	30		15M§	500m		D	T066	CØ
69#	2SC1445		40 Ø	§J	6.0	3.0	100	6.0	80	1.0m	4.0Ø	1.0	30		15M§	500m		D	T066	CØ
70#	2SC1447		20 Ø	§J	100m		300	5.0	300	1.0uØ	10Ø	50m	40	170	20M§△			DPL	Y220b	XØ
71#	2SC1448		25 Ø	§J	1.5		150	5.0	150	20uØ	10Ø	500m	40	140	3.0M§△			DM	Y220b	XØ
72#	2SC1476		40 Ø	§J	5.0		38		18	10mØ	5.0Ø	1.0	10	200				PE	MT106	G
73#	2SC1503		30 Ø	§J	3.0		50		25	500uØ	5.0Ø	1.0	10	200				PE	MT105	A
74#	2SC1514		1.2	♦	100m		300	5.0	300	500n△	20Ø	20m	30	200	80M§			D	u89	D
75#	2SC1548		45 Ø	§J	5.0		50		25	1.0mØ	5.0Ø	1.0	10	200				PE	MT105	A
76#	2SD24		6.0 Ø§	§J	100m		300	2.0	300 §	1.5u	10Ø	50m	60 Ø		25M§			ME	T066	
77#	2SD28		18 Ø	§J	3.0	1.0	70		40	20uØ	1.0Ø	100m	32	276				D	MD17	Ø
78#	2SD29		18 Ø	§J	3.0	1.0	70		60	20uØ	1.0Ø	100m	32	276				D	MD17	Ø
79#	2SD49		18 Ø	§J	3.0	1.0	100	10	60	20uØ	3.0Ø	1.0	25	100	2.0M†	600m▼		D	MD17	ØØ
80#	2SD51		50 Ø	§J	5.0	1.5	100	6.0	50	5.0mØ		2.0	30	120	10k†	500m		ME	T03	ØØ
81#	2SD56		30 Ø	§J	3.0	1.0	220	18	80	50uØ	1.0Ø	100m	15	150				D	MD17	Ø
82#	2SD68		50 Ø	§J	5.0		75	5.0	75 §	5.0m	5.0Ø	1.0	50 Ø		100M§			ME	T03	
83#	2SD69		50 Ø	♦J	3.0		140	8.0	140	100uØ	5.0Ø	1.0	35	170					T03	CØ
84#	2SD88		83 Ø	§J	5.0		300	8.0		100uØ	3.0Ø	2.0	34	517	10M§	400m		DM	T03	
85#	2SD88A		125 Ø	§J	10	2.0	300	8.0		100uØ	3.0Ø	2.0	34	517	12M§	400m		DM	T03	
86#	2SD102		25 Ø	§J	3.0		100	10	80	100uØ	5.0Ø	500m	30	300	1.5M†			D	T066	C
87#	2SD313		30 Ø	§J	3.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			D	X75	
88#	2SD314		30 Ø	§J	3.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			D	X75	
89#	2SD315		35 Ø	§J	4.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			DM	T066	
90#	2SD320		50 Ø	§J	2.0		300	6.0	230	100uØ	15Ø	1.0	10	50				D	T03	
91#	2SD325		10 Ø	§J	1.5		35	5.0	35	100uØ	2.0Ø	1.0	40	320	8.0M§			D	X75	
92#	2SD326		23 Ø	♦J	1.0		330	5.0	220	15uØ	5.0Ø	100m	42	230	6.5M§				MD17	CØ
93#	2SD328		800m	$	1.5 #		100	7.0	60	1.0uØ	2.0Ø	200m	60	320 #	50M§	1.0		PE	T039	AØ
94#	2SD330		20 Ø	§J	2.0		50	5.0	50	100uØ	2.0Ø	1.0	40	320	8.0M§			D	X75	
95#	2SD331		20 Ø	§J	2.0		50	5.0	50	100uØ	2.0Ø	1.0	40	320	8.0M§			D	X75	
96#	2SD338		60 Ø	♦J	7.0		90	8.0	90 §	100uØ	2.0Ø	3.0	50 Ø		3.0M§△				T03	CØ
97#	2SD339		100 Ø	♦J	10		110	8.0	110 §	100uØ	2.0Ø	4.0	50 Ø		3.0M§△				T03	CØ
98#	2SD340		120 Ø	♦J	12		140	8.0	140 §	100uØ	2.0Ø	5.0	50 Ø		3.0M§△				T03	CØ
99#	2SD383		80 Ø	§J	5.0		300	6.0	300	1.0mØ	10Ø	500mØ	40	80 Ø		4.0		D	T03	CØ
100	40850		35 Ø	§J	2.0	1.0	450	6.0	300 ☑		10Ø	750m	25			1.0		DM	T066	CØ
101	40851		45 Ø	§J	7.0	4.0	450	9.0	350 ☑		1.0Ø	1.2	12			750m		EM	T066	CØ
102	40852		100 Ø	§J	7.0	4.0	450	9.0	350 ☑		1.0Ø	1.2	12			750m		EM	T03	CØ
103	40853		100 Ø	§J	10	5.0	450	6.0	300 ☑		4.0Ø	5.0	10			375m		DM	T03	CØ
104	40854		110 Ø	§J	15	7.0	450	6.0	300 ☒		3.0Ø	10	10			187m		EM	T03	CØ
105#	BC429		1.0		1.0		45		45			500m	35		100M§△				X100a	B
106#	BC430		1.0		1.0		45		45			150m	50	160	100M§△				X100a	B
107#	BD111A		62 $	$	10		60	5.0	60	1.0m	5.0Ø	500m	40	100 Ø	100M§		500nØ	PE△	T03	
108#	BF456		1.2		100m		160		160			30mØ	40		100M§△				X100a	B
109#	BLY47†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	30	100 #	15M§△		1.0uØØ	DM	T03	CØ
110#	BLY47A†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	30	100 #	15M§△		1.0uØØ	DM	T066	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AXIMUM	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CONFIG
1#	BLY48†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	60	200 #	15M§Δ		1.0uØØ☑	DM	TO3	CØ
2#	BLY48A†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	60	200 #	15M§Δ		1.0uØØ☑	DM	TO66	CØ
3#	BLY49†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	30	100 #	15M§Δ		1.0uØØ☑	DM	TO3	CØ
4#	BLY49A†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	30	100 #	15M§Δ		1.0uØØ☑	DM	TO66	CØ
5#	BLY50†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	60	200 #	15M§Δ		1.0uØØ☑	DM	TO3	CØ
6#	BLY50A†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	60	200 #	15M§Δ		1.0uØØ☑	DM	TO66	CØ
7#	BLY53A		10 Ø	§S	1.0		36	4.0	18		5.0Ø	500m	10	40 Ø	1.3G§	400m▼		PL†	MT59h	R
8#	BLY61		5.0 Ø	§A	500m†	100m	36 †	4.0	18	100u	5.0	250m	10	120	400k			PE	TO39	AØ
9#	BLY62		11 Ø	§A	2.0 †	500m	36 †	4.0	18	100u	5.0	250m	10	120	400k			PE	TO117	GE
10#	BLY63		17 Ø	§A	5.0 †	2.0	36 †	4.0	18	100u	5.0	250m	10	120	400k			PE	TO117	GE
11#	BSS11†		1.2 Ø	§J							1.0Ø	10m		120 #	500M§Δ			PE	TO18	AØ
12#	BSS12†		1.2 Ø	§J							35Ø	10m		120 #	400M§Δ				TO18	AØ
13#	BU100A		62 $	$	10		150	5.0	150 Ø	1.0m	5.0Ø	2.0	40	90 Ø	100M§		500nØ	PEΔ	TO3	
14#	BU127		62 $	$	10		200	5.0	120	1.0m	5.0Ø	1.0	40	120 Ø	70M§		500nØ	PEΔ	TO3	
15#	BU128		62 $	$	10		300	5.0	200	1.0m	5.0Ø	1.0	40	120 Ø	80M§		500nØ	PEΔ	TO3	
16#	BUY24		15	§J	5.0	2.0	120	6.0	60	10u	2.0	2.0	40	75 Ø	100M§		350nØ	PE	TO3	
17#	BUY47		7.0	§	10		150	6.0	120	1.0m	5.0Ø	500m	40	150 Ø	90M§		500nØ	PEΔ	TO39	
18#	BUY48		7.0	§	10		200	6.0	170	1.0m	5.0Ø	500m	40	150 Ø	90M§		500nØ	PEΔ	TO39	
19#	BUY49		7.0	§	10		250	6.0	220	1.0m	5.0Ø	500m	40	150 Ø	90M§		500nØ	PEΔ	TO39	
20	HEP75-RT		1.0 ▼%	§J	400m$		40 $	3.5$	20 $	1.0u$	25		15		250M§				TO39	
21	HEP240-RT		10 %	§J	500m$		300 $	6.0$	300 $	100u$	300		115 Ø		10M§				TO66	CØ
22	HEP241-RT		40 %	§J	5.0 $		160 $	6.0$	120 $	500u$	160		60 Ø		20M§				TO66	CØ
23	HEP243-RT		6.0 %	§J	3.0 $		60 $	6.0$	40 $	500u$	40		60 Ø		8.0M§				TO5	A
24	HEP244-RT		25 %	§J	500m$		300 $	3.0$	300 $	100u$	300		80 Ø		15M§				X58b	B
25	HEP245-RT		30 %	§J	3.0 $		60 $	5.0$	40 $	500u$	40		60 Ø		8.0M§				X58b	B
26	HEP247-RT		150 %	§J	10 $		70 $	7.0$	50 $	1.5m$	40		60 Ø		6.0M§				TO3	CØ
27	HEP701-RT		40 %	§J	3.0 $		40 $	5.0$	40 $	100u$	40		100 Ø		8.0M§				X58b	B
28	HEP703-RT		25 %	§J	5.0 $		70 $	5.0$	60 $	100u$	60		85 Ø		6.0M§				TO66	CØ
29	HEP704-RT		115 %	§J	15 $		100 $	7.0$	60 $	500n$	100		90 Ø		1.0M§				TO3	CØ
30	HEP706-RT		4.0 %	§J	100m$		350 $	6.0$	325 $	1.0u$	150		25 Ø		10M§				TO5	A
31	HEP707-RT		125 %	▼J	10 $		400 $	5.0$	325 $	1.0m$	400		65 Ø		2.5M§				TO3	CØ
32	HEP712-RT		1.0 %	§J	50m$		180 $	5.0$	200 $	5.0u$	100		35 Ø		150M§				TO5	A
33	HEP713-RT		1.0 %	§J	200m$		100 $	5.0$	100 $	1.0u$	50		35 Ø		150M§				TO5	A
34	HEP714-RT		1.0 %	§J	1.0 $		150 $	5.0$	150 $	100n$	125		120 Ø		100M§				X81a	A
35	HEP740-RT		100 %	▼J	3.5 $		700 $	5.0$	700 $	250n$	400		10		2.5M§				TO3	CØ
36	HEPS0001-RT		310m%	†J	600m$		140 $	5.0$	120 $	1.0u$	75		200 Ø		600M§				TO92	A
37	HEPS3001-RT		5.0 ▼%	§J	1.0 $		65 $	4.0$	40 $	1.0m$	65		10		500M§				TO39	
38	HEPS3002-RT		6.0 %	§J	5.0 $		80 $	5.0$	80 $	100u$			80 Ø		30M§				TO39	
39	HEPS3005-RT		2.0 ▼%	§J	1.0 $		36 $	4.0$	30 Ø$	1.0m$	15		10		175M§				MT81a	R
40	HEPS3006-RT		10 ▼%	§J	3.0 $		36 $	4.0$	30 Ø$	1.0m$	15		10		175M§				MT81a	R
41	HEPS3007-RT		25 ▼%	§J	5.0 $		36 $	4.0$	30 Ø$	1.0m$	15		10		175M§				MT75e	R
42	HEPS3008-RT		1.5 ▼%	§J	400m$		55 $	4.0$	30 Ø$	1.0u$	25		10		400M§				TO39	
43	HEPS3020-RT		5.0 %	†J	1.0 $		60 $	4.0$	60 $	100nØ$			120 Ø		150M§				X81	A
44	HEPS3021-RT		5.0 %	†J	1.0 $		250 $	8.0$	250 $	200nØ$			120 Ø		100M§				X81	A
45	HEPS3022-RT		5.0 %	†J	1.0 $		250 $	8.0$	250 $	200nØ$			225 Ø		100M§				X81	A
46	HEPS3023-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			110 Ø		50M§				X81	A
47	HEPS3024-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			200 Ø		50M§				X81	A
48	HEPS3025-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			320 Ø		50M§				X81	A
49	HEPS3026-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			550 Ø		50M§				X81	A
50	HEPS5000-RT		40 %	§J	4.0 $		80 $	5.0$	80 $	100n$			60 Ø		2.0M§				u115a	B
51	HEPS5001-RT		90 %	§J	10 $		70 $	5.0$	60 $	1.0m$			50 Ø		2.0M§				u115b	B
52	HEPS5003-RT		40 %	§J	4.0 $		60 $	4.0$	60 $	100n$			60 Ø		2.0M§				u115a	B
53	HEPS5004-RT		90 %	§J	10 $		90 $	4.0$	90 $	100u$			70 Ø		2.0M§				u115b	B
54	HEPS7000-RT		200 %	§J	30 $		100 $	4.0$	100 $	1.0m$			75 Ø		2.0M§				TO3	CØ
55	S2N1486		25		3.0				55	250u§	4.0Ø	750m	35	100	1.0				TO8	
56	SD1023		2.0	§A	100m		45	3.5	25	40uΔ	5.0Ø	720m	5.0		700M§	5.0			TO60	
57	SK3020-RT		500m	§J	300m		30	7.5	25				175 Ø		175M§			PL	TO104	A
58	SK3021-RT		35	§J	2.0		500	6.0	300		10Ø	100m	105 Ø		20M§			D	TO66	CØ
59	SK3024-RT		5.0	§J	1.0		120	7.0	90				100 Ø		150M§			PL	TO5	A
60	SK3026-RT		29	§J	4.0		70	7.0	60				70 Ø		1.0M§			H	TO66	CØ
61	SK3027-RT		115	§J	15		90	7.0	80				60 Ø		1.0M§			H	TO3	CØ
62	SK3028-RT		29	§J	4.0		70	7.0	60				70 Ø		1.0M§			H*	TO66	CØ
63	SK3029-RT		115	§J	15		90	7.0	80				60 Ø		1.0M§			H*	TO3	CØ
64	SK3036-RT		150	§J	30		90	5.0	80				100 Ø		1.5M§			H	TO3	CØ
65	SK3037-RT		150	§J	30		90	5.0	80				100 Ø		1.5M§			H*	TO3	CØ
66	SK3040-RT		1.0	§J	50m		120	5.0	120				50 Ø		100M§				TO104	A
67	SK3041-RT		50	§J	7.0		35	5.0	35				100 Ø		2.0M§			H	Y220b	DØ
68	SK3044-RT		10	§J	1.0		300	7.0	300		10Ø	20m	80 Ø		15M§			D	TO5	AØ
69	SK3045-RT		10	§J	1.0		300	6.0	300		10Ø	20m	80 Ø		15M§			D	TO5	AØ
70	SK3047-RT		2.0	§A	250m		60	2.0	30		10Ø	12m	50 Ø		300M§			D	TO5	AØ
71	SK3048-RT		5.0	§J	1.5		60	2.5	30				60 Ø		200M§			PL	TO5	AØ
72	SK3049-RT		10	§J	1.5		60	2.5	30				60 Ø		200M§			PL	TO5	AØ
73	SK3054-RT		50	§J	7.0		90	5.0	70				70 Ø		2.0M§			H	Y220b	DØ
74	SK3079-RT		117	§J	10		160	7.0	140				80 Ø		1.0M§			H	TO3	CØ
75	SK3103-RT		20		1.0		450	6.0	350				100 Ø		20M§					
76	SK3104-RT		20		1.0		300	6.0	250				75 Ø		20M§					
77	SK3111-RT		22		2.5		1.2k	6.0	500				25 Ø		10M§				TO3	CØ
78	SK3115-RT		22		5.0		1.5k	5.0	1.5k				5.0 Ø		10M§				TO3	CØ
79	SK3510-RT		115		15		100	7.0	60			4.0	45 Ø		900k§				TO3	CØ
80	SK3511-RT		150		20		100	7.0	60			4.0	40 Ø		1.0M§				TO3	CØ
81	SK3512-RT		10		2.0		100	7.0	75			400m	90 Ø		70M§				TO5	A
82	SP7056		1.7	§J	30m		300	7.0	300	100nØ	20Ø	30m	40		50M§Δ			PL	X51	AØ
83	SS2000		65 $				60	8.0	30 ☑			10	40	120		75m		PE		
84	SS2001		65 $				80	8.0	50 ☑			10	40	120		75m		PE		
85	SS2002		65 $				100	8.0	70 ☑			10	40	120		75m		PE		
86	SS2003		65 $				100	8.0	90 ☑			10	40	120		75m		PE		
87	SS2004		65 $				60	8.0	30 ☑			10	20	60		100m		PE		
88	SS2005		65 $				80	8.0	50 ☑			10	20	60		100m		PE		
89	SS2006		65 $				100	8.0	70 ☑			10	20	60		100m		PE		
90	SS2007		65 $				100	8.0	90 ☑			10	20	60		100m		PE		
91	SS2008		65 $				60	8.0	30 ☑			10	100	300		75m		PE		
92	SS2009		65 $				80	8.0	50 ☑			10	100	300		75m		PE		
93	SS2010		65 $				100	8.0	70 ☑			10	100	300		75m		PE		
94	SS2011		65 $				100	8.0	90			10	100	300		75m		PE		
95	SS2012		65 $				60	6.0	30			10	20	60		70m		PE		
96	SS2013		65 $				80	6.0	50			10	20	60		70m		PE		
97	SS2014		65 $				100	6.0	70			10	20	60		70m		PE		
98	SS2015		65 $				100	6.0	90			10	20	60		70m		PE		
99	SS2016		65 $				60	6.0	30			10	40	120		70m		PE		
100	SS2017		65 $				80	6.0	50			10	40	120		70m		PE		
101	SS2018		65 $				100	6.0	70			10	40	120		70m		PE		
102	SS2019		65 $				100	6.0	90			10	40	120		70m		PE		
103	SS2020		65 $				60	6.0	30			10	100	300		70m		PE		
104	SS2021		65 $				80	6.0	50			10	100	300		70m		PE		
105	SS2022		65 $				100	6.0	70			10	100	300		70m		PE		
106	SS2023		65 $				100	6.0	90			10	100	300		70m		PE		
107	SSP58		30		1.0				40			1.0	15	75		700m				
108	SSP58A		30		1.0				60			1.0	15	75		700m				
109	SSP58B		30		1.0				80			1.0	15	75		700m				
110	SSP58C		30		1.0				100			1.0	10	50		700m				

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE MX EM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	SSP62		40		3.0				40			3.0	10	50		400m				
2	SSP62A		40		3.0				60			3.0	10	50		400m				
3	SSP62B		40		3.0				80			3.0	10	50		400m				
4	SSP62C		40		3.0				100			3.0	15	75		400m				
5	SSP66		80		10				40			3.0	20	100		400m				
6	SSP66A		80		10				60			3.0	20	100		400m				
7	SSP66B		80		10				80			3.0	20	100		400m				
8	SSP66C		80		10				100			3.0	20	100		400m				
9	SSP70		125		25				40			15	10	50		160m				
10	SSP70A		125		25				60			15	10	50		160m				
11	SSP70B		125		25				80			15	10	50		160m				
12	SSP70C		125		25				100			15	10	50		160m				
13	SSP82		65		6.0				40			3.0	15	75		333m				
14	SSP82A		65		6.0				60			3.0	15	75		333m				
15	SSP82B		65		6.0				80			3.0	15	75		333m				
16	SSP82C		65		6.0				100			3.0	15	75		333m				
17	SSP3055		90		15				60			4.0	20	70		300m				
18	ST91085		30 Ø$	§	5.0	2.0	125	10	80	20u	10	2.0	30	120	10M	320m		PE	TO59	
19	ST91086		30 Ø$	§	5.0	2.0	145	10	100	20u	10	2.0	30	120	10M	320m		PE	TO59	
20	ST91087		30 Ø$	§	5.0	2.0	170	10	120	20u	10	2.0	30	120	10M	320m		PE	TO59	
21#	BSX48†	2.0mØ	1.0 *	§J	600m		50	5.0	25	120nØ	1.0Ø	100mØ		42	400M§☑			DPE	TO18	AØ
22#	BSX49†	2.0mØ	1.0 *	§J	600m		60	5.0	40	70nØ	1.0Ø	100mØ		42	400M§☑			DPE	TO18	AØ
23#	2SC1249	2.2mØ	2.8 Ø	§J	300m		45	3.0	30	1.0uØ	15Ø	65m	40 #	200 #	1.5G△			E	MT88	R
24#	2SC1250	2.2mØ	2.8 Ø	§J	300m		45	3.0	30	1.0uØ	15Ø	65m	40 #	200 #	1.7Gt△			E	MT88	R
25#	BCY65EIX†	2.2mØ	1.0	§J	200m			7.0	60		5.0Ø	2.0mØ	350 Ø		250M§		50n	PEØ	TO18	A
26#	BCY65EVIII†	2.2mØ	1.0	§J	200m			7.0	60		5.0Ø	2.0mØ	170 Ø		250M§		50n	PEØ	TO18	A
27#	BCY65EVIII†	2.2mØ	1.0	§J	200m			7.0	60		5.0Ø	2.0mØ	250 Ø		250M§		50n	PEØ	TO18	A
28	TRS140MP	4.5m	1.0	§	400m		140	6.0	140 §	3.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
29	TRS160MP	4.5m	1.0	§	400m		160	6.0	160 §	3.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
30	TRS180MP	4.5m	1.0	§	400m		180	6.0	180 §	3.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
31	TRS200MP	4.5m	1.0	§	400m		200	6.0	200 §	2.0uØ	4.0Ø	50m	20	#	50M§△				TO5	
32	TRS225MP	4.5m	1.0	§	400m		225	6.0	225 §	3.0uØ	4.0Ø	50m	22	#	50M§△				TO5	
33	TRS250MP	4.5m	1.0	§	400m		250	6.0	250 §	2.0uØ	4.0Ø	50m	20	#	50M§△				TO5	
34	TRS275MP	4.5m	1.0	§	400m		275	6.0	275 §	3.0uØ	4.0Ø	50m	22	#	50M§△				TO5	
35	TRS301MP	4.5m	1.0	§	400m		300	6.0	300 §	2.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
36	TRS325MP	4.5m	1.0	§	400m		325	6.0	325 §	3.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
37	TRS350MP	4.5m	1.0	§	400m		350	6.0	350 §	2.0mØ	4.0Ø	50m	20	#	50M§△				TO5	
38	TRS375MP	4.5m	1.0	§	400m		375	6.0	375 §	3.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
39	TRS401MP	4.5m	1.0	§	400m		400	6.0	400 §	2.0mØ	4.0Ø	50m	30	#	50M§△				TO5	
40	TRS425MP	4.5m	1.0	§	400m		425	6.0	425 §	3.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
41	TRS451MP	4.5m	1.0	§	400m		450	6.0	450 §	2.0mØ	4.0Ø	50m	30	#	50M§△				TO5	
42	TRS475MP	4.5m	1.0	§	400m		475	6.0	475 §	2.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
43	TRS501MP	4.5m	1.0	§	400m		500	6.0	500 §	10mØ	4.0Ø	25m	30	#	50M§△				TO5	
44	TRS525MP	4.5m	1.0	§	400m		525	6.0	525 §	10mØ	4.0Ø	25m	22	#	50M§△				TO5	
45	TRS550MP	4.5m	1.0	§	400m		550	6.0	550 §	10mØ	4.0Ø	25m	20	#	50M§△				TO5	
46	TRS575MP	4.5m	1.0	§	400m		575	6.0	575 §	10mØ	4.0Ø	25m	22	#	50M§△				TO5	
47	TRS601MP	4.5m	1.0	§	400m		600	6.0	600 §	10uØ	4.0Ø	25m	30	#	50M§△				TO5	
48#	BSX45	5.0m	5.0 Ø	§J	1.0	200m		7.0	40	30n§Ø					50M§			PE	TO39	AØ
49#	BSX46	5.0m	5.0 Ø	§J	1.0	200m		7.0	60	30n§Ø					50M§		15n	PE△	TO39	AØ
50#	BSX47	5.0m	5.0 Ø	§J	1.0	200m		7.0	80	30n§Ø					50M§		15n	PE△	TO39	AØ
51#	BSX47-6	5.0m	5.0 Ø	§J	1.0	200m		7.0	80	30n§Ø	1.0Ø	100m	40	100	50M§		15n	PE△	TO39	AØ
52#	BSX47-10	5.0m	5.0 Ø	§J	1.0	200m		7.0	80	30n§Ø	1.0Ø	100m	63	160	50M§		15n	PE△	TO39	AØ
53#	2SC776	5.5m	1.0	§J	1.0		75	4.0	75 §	10uØ	10Ø	100mØ	5.0	#	200M§			PE	TO39	AØ
54#	ZT2102	5.5m	1.0	§J	1.0		120	6.0	65	1.0u	10Ø	150m	40	#	60M§△			PLØ	TO5	Ø
55	2N2270	5.7m	1.0 Ø	§J	1.0		60	7.0	45	50n	10Ø	150m	50	200	100M§△	60		△	TO39	AØ
56	2N2405	5.7m	1.0	§S	1.0		120	7.0	90	10nØ	10Ø	150m	60	200 #					TO5	AØ
57	2N2987	5.7m	1.0	§C	1.0	200m	95	7.0	80	30n§	5.0Ø	200m	25	75 #	30M§△				TO5	AØ
58	2N2988	5.7m	1.0	§C	1.0	200m	155	7.0	100	30n§	5.0Ø	200m	25	75 #	30M§△				TO5	AØ
59	2N2989	5.7m	1.0	§C	1.0	200m	95	7.0	80	30n§	5.0Ø	200m	60	120 #	30M§△				TO5	AØ
60	2N2990	5.7m	1.0	§C	1.0	200m	155	7.0	100	30n§	5.0Ø	200m	60	120 #	30M§△				TO5	AØ
61	2N3418†	5.7mØ	1.0	§C	3.0	1.0	85	8.0	60	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØ		TO5	AØ
62	2N3419†	5.7mØ	1.0	§C	3.0	1.0	125	8.0	80	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØ		TO5	AØ
63	2N3420†	5.7mØ	1.0	§C	3.0	1.0	85	8.0	60	500n#	2.0Ø	1.0	40	120 #	40M§△		300nØ		TO5	AØ
64	2N3421†	5.7mØ	1.0	§C	3.0	1.0	125	8.0	80	500n#	2.0Ø	1.0	40	120 #	40M§△		300nØ		TO5	AØ
65	2N3444†	5.7mØ	1.0	§S	1.0		80	5.0	50	500nØ	1.0Ø	500mØ	20	60 #	150M§△		35n☑		TO5	AØ
66	2N3498	5.7m	1.0	§S	500m		100	6.0	100	50nØ	10Ø	150m	40	120 #	150M§△				TO5	AØ
67	2N3499	5.7m	1.0	§S	500m		100	6.0	100	50nØ	10Ø	150m	100	300 #	150M§△				TO5	AØ
68	2N3500	5.7m	1.0	§S	300m		150	6.0	150	50nØ	10Ø	150m	40	120 #	150M§△				TO5	AØ
69	2N3501	5.7m	1.0	§S	300m		150	6.0	150	50nØ	10Ø	150m	100	300 #	150M§△				TO5	AØ
70	2N3506†	5.7mØ	1.0	§S	3.0		60	5.0	40	1.0m#	2.0Ø	1.5	40	200	60M§△	1.0	30n☑		TO5	AØ
71	2N3507†	5.7mØ	1.0	§S	3.0		80	5.0	50	1.0m#	2.0Ø	1.5	30	150	60M§△	1.0	30n☑		TO5	AØ
72	2N5189†	5.7m	1.0	§S	2.0		60	5.0	35	100u	1.0Ø	1.0	15		400M§△				R81	AØ
73	2N5262†	5.7m	1.0	§	2.0		75	5.0	50	1.0u§	1.0Ø	500m	40 Ø		350M§			PE	TO39	AØ
74	2N5681	5.7m	1.0	§J	1.0	500m	100 †	4.0†	100	1.0u	2.0Ø	250m	40	150	30M§△	2.0			TO5	AØ
75	2N5682	5.7m	1.0	§J	1.0	500m	120 †	4.0†	120	1.0u	2.0Ø	250m	40	150	30M§△	2.0			TO5	AØ
76	MM1812	5.7m	1.0	§J	100m		175	4.0	175	100nØ	10Ø	10mØ	35	200 #					TO5	
77	MM2258	5.7m	1.0	§J	500m		120	5.0	120	50nØ	10Ø	10m	35 #		150M§△	16		AN	TO5	AØ
78	MM2259	5.7m	1.0	§J	300m		175	5.0	175	50nØ	10Ø	10m	50 #		150M§△	16		AN	TO5	AØ
79	MM2260	5.7m	1.0	§J	300m		175	5.0	175	50nØ	10Ø	10m	50 #		150M§△	16		AN	TO5	AØ
80	MM3000	5.7m	1.0	§J	200m			5.0	100 *	1.0uØ	10Ø	10m	20		150M§△			E	TO39	A
81	MM3001	5.7m	1.0	§J	200m			5.0	150 *	1.0uØ	10Ø	10m	20		150M§△			E	TO39	A
82	MM3002	5.7m	1.0	§J	50m			5.0	200 *	5.0uØ	10Ø	10m	20		150M§△			E	TO39	A
83	MM3003	5.7m	1.0	§J	50m			5.0	250 *	5.0uØ	10Ø	10m	20		150M§△			E	TO39	A
84	MM3008	5.7m	1.0	§J	400m			6.0	120 *	100nØ	10Ø	10m	40		50k				TO39	A
85	MM3009	5.7m	1.0	§J	400m			6.0	180 *	100nØ	10Ø	10m	40		50M§△				TO39	A
86▼	MS300CE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	20		4.5G§			Ø	X138	R
87▼	MS300JE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	20		4.5G§			Ø	u118	R☑
88▼	MS300TE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	20		4.5G§			Ø	X60	C☑
89▼	MS300YE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	20		4.5G§			Ø	X139	F
90▼	MS2110CE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	X138	R
91▼	MS2110JE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	u118	R☑
92▼	MS2110KE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	X72b	V
93▼	MS2110TE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	X60	C☑
94▼	MS2110YE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	X139	F
95#	TIXS12	5.7m	1.0	§J	200m		30	2.0	15	500u	10Ø	50m	20		1.4G			PE	X39	
96#	TIXS13	5.7m	1.0	§J	200m		30	2.0	15	500u	10Ø	50m	20		1.2G			PE	X39	
97	TRS501LC	6.0m	1.0	§J	400m		500	5.0	500	15uØ	10Ø	20m	30	65 Ø				D	TO5	
98	TRS601LC	6.0m	1.0	§J	400m		600	5.0	600	20uØ	10Ø	20m	30	65 Ø				D	TO5	
99	2N3298	6.6mØ	1.0	§J	100m		25	3.0	15	50u	1.0Ø	10m	80		200M§△				TO18	AØ
100	2N4069	6.6mØ	1.0	§S	200m		150	5.0	150	50nØ	10Ø	30m	30		50M§△	100			R119	
101	2N5185	6.6mØ	1.0	§S	50m			5.0	120		10Ø	50m	10		30M§△				R119	AØ
102	2N5413†	6.6m	1.0	§S	2.0		60	6.0	40 *	1.0uØ	2.0Ø	2.0	25	100 #	250M§△		37n☑		TO39	AØ
103	2N5414†	6.6m	1.0	§S	2.0		80	6.0	50 *	1.0uØ	2.0Ø	2.0	20	100 #	250M§△		37n☑		TO39	AØ
104	2N5836	6.6m	2.0 Ø	§S	200m		15	3.5	10	10uØ	6.0Ø	50m	25		2.0G§△			△	TO46	AØ
105	2N5837	6.6m	2.0 Ø	§S	300m		10	3.5	5.0	10uØ	3.0Ø	100m	25		1.7G§△			△	TO46	AØ
106#	2SD78	6.6m	1.0	§J	2.0		100	12	60	1.0uØ	2.0Ø	500m	80 #	†				PE	TO5	
107#	2SD405	6.6mØ	1.0	§J	2.0		70	12	70	1.0uØ	2.0Ø	1.0	2.0k	12k#				E	TO39	AØ
108#	2SD406	6.6mØ	1.0	§J	2.0		100	12	70	1.0uØ	2.0Ø	1.0	2.0k	12k#				E	TO39	AØ
109#	BCY66	6.6m*	1.0 Ø	§J	200m		45	7.0	45	10nØ	5.0Ø	2.0m	250	330	150M§△			PL	TO18	
110#	DT1110	6.6mØ	5.0 Ø	§J	500m	50m	30	10	30	2.0u	6.0Ø	300m	20	60	500kt	4.0	1.0u	D	TO5	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG.
1#	DT1111	6.6mØ	5.0 Ø	§J	500m	50m	60	10	60	2.0u	6.0Ø	300m	20	60	500k†	4.0	1.0u	D	TO5	
2#	DT1112	6.6mØ	5.0 Ø	§J	500m	50m	100	10	100	2.0u	6.0Ø	300m	20	60	500k†	4.0	1.0u	D	TO5	
3#	DT1120	6.6mØ	5.0 Ø	§J	500m	50m	30	10	30	2.0u	6.0Ø	300m	40	120	1.5M†	4.0	1.0u	D	TO5	
4#	DT1121	6.6mØ	5.0 Ø	§J	500m	50m	60	10	60	2.0u	6.0Ø	300m	40	120	1.5M†	4.0	1.0u	D	TO5	
5#	DT1122	6.6mØ	5.0 Ø	§J	500m	50m	100	10	100	2.0u	6.0Ø	300m	40	120	1.5M†	4.0	1.0u	D	TO5	
6	SRL1014	6.6mØ	1.0	§J	3.0	1.0	100	4.0	100 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
7	SRL2014	6.6mØ	1.0	§J	3.0	1.0	200	4.0	200 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
8	SRL2254S	6.6mØ	1.0	§J	3.0	1.0	250	4.0	225	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
9	SRL2504	6.6mØ	1.0	§J	3.0	1.0	250	4.0	250 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
10	SRL2504S	6.6mØ	1.0	§J	3.0	1.0	275	4.0	250	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
11	SRL2754S	6.6mØ	1.0	§J	3.0	1.0	300	4.0	275	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
12	SRL3014	6.6mØ	1.0	§J	3.0	1.0	300	4.0	300 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
13	SRL3014S	6.6mØ	1.0	§J	3.0	1.0	325	4.0	300	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
14	SRL3504	6.6mØ	1.0	§J	3.0	1.0	350	4.0	350 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
15	SRL3504S	6.6mØ	1.0	§J	3.0	1.0	375	4.0	350	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
16	SRL4014	6.6mØ	1.0	§J	3.0	1.0	400	4.0	400 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
17	SRL4014S	6.6mØ	1.0	§J	3.0	1.0	425	4.0	400	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
18	SRL4504	6.6mØ	1.0	§J	3.0	1.0	450	4.0	450 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
19	SRL5014	6.6mØ	1.0	§J	3.0	1.0	500	4.0	500 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
20	SRL5504	6.6mØ	1.0	§J	3.0	1.0	550	4.0	550 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
21	SRL6014	6.6mØ	1.0	§J	3.0	1.0	600	4.0	600 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
22	SRL6504	6.6mØ	1.0	§J	3.0	1.0	650	4.0	650 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
23	SRL7014	6.6mØ	1.0	§J	3.0	1.0	700	4.0	700 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
24	SRM1004	6.6mØ	1.0	§J	3.0	1.0	100	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
25	SRM2014	6.6mØ	1.0	§J	3.0	1.0	200	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
26	SRM2254S	6.6mØ	1.0	§J	3.0	1.0	250	6.0	225	3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
27	SRM2504	6.6mØ	1.0	§J	3.0	1.0	250	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
28	SRM2504S	6.6mØ	1.0	§J	3.0	1.0	275	6.0	250	3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
29	SRM2754S	6.6mØ	1.0	§J	3.0	1.0	300	6.0	275	3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
30	SRM3014	6.6mØ	1.0	§J	3.0	1.0	300	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
31	SRM3014S	6.6mØ	1.0	§J	3.0	1.0	325	6.0	300	3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
32	SRM3504	6.6mØ	1.0	§J	3.0	1.0	350	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
33	SRM3504S	6.6mØ	1.0	§J	3.0	1.0	375	6.0	350	3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
34	SRM4014	6.6mØ	1.0	§J	3.0	1.0	400	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
35	SRM4014S	6.6mØ	1.0	§J	3.0	1.0	425	6.0	400	3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
36	SRM4504	6.6mØ	1.0	§J	3.0	1.0	450	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
37	SRM5014	6.6mØ	1.0	§J	3.0	1.0	500	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
38	SRM5504	6.6mØ	1.0	§J	3.0	1.0	550	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
39	SRM6014	6.6mØ	1.0	§J	3.0	1.0	600	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
40	SRM6504	6.6mØ	1.0	§J	3.0	1.0	650	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
41	SRM7014	6.6mØ	1.0	§J	3.0	1.0	700	6.0		3.0u	10Ø	1.0	10	15 Ø	10M§△		400n	EM△	TO5	AØ
42	TRS301LC	6.6m	1.0	§J	400m		300	5.0	300	10uØ	10Ø	20m	40	65 Ø				D	TO5	
43	TRS401LC	6.6m	1.0	§J	400m		400	5.0	400	10uØ	10Ø	20m	30	65 Ø				D	TO5	
44	2N2983	6.7m	1.0	§J	3.0	1.0	155	8.0	80	10u§	5.0Ø	1.0	20	60 #	60M§	600m			TO5	AØ
45	2N2984	6.7m	1.0	§J	3.0	1.0	185	8.0	120	10u§	5.0Ø	1.0	20	60 #	60M§	600m			TO5	AØ
46	2N2985	6.7m	1.0	§J	3.0	1.0	155	8.0	80	10u§	5.0Ø	1.0	40	120 #	60M§	600m			TO5	AØ
47	2N2986	6.7m	1.0	§J	3.0	1.0	185	8.0	120	10u§	5.0Ø	1.0	40	120 #	60M§	600m			TO5	AØ
48	2N4004†	6.8m	1.2	§J	20	10	100 †	8.0†	80	2.0mΔ♦	4.0Ø	10	30	150 #	30M§△	500m#	1.0uØØ		X134	DØ
49	2N4005†	6.8m	1.2	§J	20	10	120 †	8.0†	100	2.0mΔ♦	4.0Ø	10	30	150 #	30M§△	500m#	1.0uØØ		X134	DØ
50#	2SC1518	6.8m	750m	†J	1.0		25	5.0	20	100n	2.0Ø	500m	65	330	150M§			PE	u55a	B
51	2N3469	6.9m	1.2	§C	5.0	500m	35	5.0	25	100nØ	1.0Ø	500m	100	350 #	20M§△	500m			TO5	Ø
52	JAN2N5662†	6.9mØ	1.2	§A	2.0	500m	250	6.0	200	1.0m	5.0Ø	500m	40	120 #	20M§△		250nØØ		TO5	AØ
53	JAN2N5663†	6.9mØ	1.2	§A	2.0	500m	400	6.0	300	1.0m	5.0Ø	500m	25	75 #	20M§△		250nØØ		TO5	AØ
54	JAN2N5666†	6.9mØ	1.2	§A	5.0	1.0	250	6.0	200	1.0m	5.0Ø	1.0	40	120 #	20M§△		250nØØ		TO5	AØ
55	JAN2N5667†	6.9mØ	1.2	§A	5.0	1.0	400	6.0	300	1.0m	5.0Ø	1.0	25	75 #	20M§△		250nØØ		TO5	AØ
56#	2SC1509	7.0m	750m	†J	1.0 #		80	5.0	80	100n	10Ø	150m	65	330	120M§			PE	u55a	B
57	5552-4†	7.0m	1.2	§A	10		120	7.0	80	200n§	2.0Ø	1.0	70		30M§△		100nØØ	PL	MT20	A
58	2N5541†	7.1m	1.2	§J	5.0	1.0	175	8.0	130	500nØ	5.0Ø	5.0	30	90 #	20M§△		500n		TO5	AØ
59#	2SC730	7.1mØ	1.2	§J	400m		40	3.0	40 §	10uØ	10Ø	100m	5.0 #		500M§			PE	TO39	A
60#	2SC51	7.6m	1.0	§J	300m		60	5.0	40 §	100nØ	6.0Ø	1.0m	50					ME	R56	
61#	2SC61†	7.6m	1.2	§J	300m		30	5.0	20 §	1.0uØ	6.0Ø	1.0m	50		180M§			ME△	R56	
62	2N2106	8.0mØ	1.0	§J	500m		60	8.0	60 §	10uØ	10Ø	200m	12	36 #					TO5	AØ
63	2N2107	8.0mØ	1.0	§J	500m		60	8.0	60 §	10uØ	10Ø	200m	30	90 #					TO5	AØ
64	2N2108	8.0mØ	1.0	§J	500m		60	8.0	60 §	10uØ	10Ø	200m	75	200 #					TO5	AØ
65	MPSU31	8.0m	1.0	§J	500m			3.0	65 Ø#	10u	10Ø	100m	10 #		30M§△			AN†	X81	AØ
66	2N4073	8.5m	1.5 Ø	§S	150m		40	4.0	20	100nØ	2.0Ø	25m	10		300M§△				TO39	AØ
67▼	MRF816	8.7m	2.0 Ø	§S	175m		36 †	4.0†	16		5.0Ø	50m	5.0	150	900M#				X115	R
68#	2SC1383	9.0m	750m	†J	1.5 #		30	5.0	25	100n	10Ø	500m	60	340 Ø	200M§			PE	u55a	B
69#	2SC1384	9.0m	750m	†J	1.5 #		60	5.0	50	100n	10Ø	500m	60	340	200M§			PE	u55a	B
70#	2SC1406	9.0m	1.0	†J	1.5 #		30	5.0	25	100u	10Ø	500m	60	340	200M§			PE	X122	D
71#	2SC1407	9.0m	1.0	†J	1.5 #		60	5.0	50	100n	10Ø	500m	60	340	200M§			PE	X122	D
72	JAN2N3418†	10m§	1.0	§A	3.0		85	8.0	60	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØØ		TO5	A
73	JAN2N3419†	10m§	1.0	§A	3.0		125	8.0	80	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØØ		TO5	A
74	JAN2N3420†	10m§	1.0	§A	3.0		85	8.0	60	500n#	2.0Ø	1.0	40	120 #	40M§△		300nØØ		TO5	A
75	JAN2N3421†	10m§	1.0	§A	3.0		125	8.0	80	500n#	2.0Ø	1.0	40	120 #	40M§△		300nØØ		TO5	A
76	2N5079	10m	1.8 Ø	§S	1.0	200m	60	5.0	30	10nØ	10Ø	150m	100	300	400M§△	1.0		Ø	TO18	AØ
77	2N5080	10m	1.8 Ø	§S	1.0	200m	60	5.0	30	10uØ	10Ø	150m	200	500	500M§△	1.0		Ø	TO18	AØ
78#	2SC213	10m	1.5	§J	600m		50			100pØ	10Ø	20mΔ		50 †	150M§			PL	TO8	
79#	2SC214	10m	1.5	§J	600m		25			100p	10Ø	20mΔ		50 †	150M§			PL	TO8	
80#	2SC215	10m	1.5	§J	600m		80			100pØ	10Ø	20mΔ		50 †	150M§			PL	TO8	
81#	2SC223	10m	1.5	§J	1.0		50			100pØ	10Ø	20mΔ		20 †	150M§			PE	TO8	
82#	2SC224	10m	1.5	§J	1.0		25			100pØ	10Ø	20mΔ		20 †	150M§			PE	TO8	
83#	2SC225	10m	1.5	§J	1.0		80			100pØ	10Ø	20mΔ		20 †	150M§			PE	TO8	
84#	2SC229	10m	1.5	§J	1.0		80	5.0	80 §	100pØ	1.0Ø	100m		50 Ø		3.5	45n	PE△	TO8	
85#	2SC1516K†	10mØ	1.2	§J	1.5		35	5.0	35	20uØ	2.0Ø	500m	60	320 *	110M§	500m		PE	u133	D
86#	2SC1517AK†	10mØ	1.2	§J	1.0		80	4.0	80	5.0uØ	4.0Ø	50m	40	320 *	11M§	1.5		D	u133	D
87#	BFY65	10m	1.3 Ø*	§J	100m		100	7.0	80 *	500u	2.0Ø	15m	30		50M§△			PE	TO39	AØ
88	KD4025	10m	1.0 Ø§	§J	100m		20	2.0	10	300n	6.0Ø	50m	20		1.2G§			Ø	X72	V
89	ST910541	10m#	15 Ø#	§J	5.0		125	10	80 *	20uØ	10Ø	2.0	30	120 #	10M§△		500nØ	PL	TO5	
90	ST910551	10m#	15 Ø#	§J	5.0		145	10	100 *	20uØ	10Ø	2.0	30	120 #	10M§△		500nØ	PL	TO5	
91	ST910561	10m#	15 Ø#	§J	5.0		170	10	120 *	20uØ	10Ø	2.0	30	120 #	10M§△		500nØ	PL	TO5	
92	2N2991	11m	2.0	§C	1.0	200m	95	7.0	80	30n§	5.0Ø	200m	25	75 #	30M§△				MT13	AØ
93	2N2992	11m	2.0	§C	1.0	200m	155	7.0	100	30n§	5.0Ø	200m	25	75 #	30M§△				MT13	AØ
94	2N2993	11m	2.0	§C	1.0	200m	95	7.0	80	30n§	5.0Ø	200m	60	120 #	30M§△				MT13	AØ
95	2N2994	11m	2.0	§C	1.0	200m	155	7.0	100		5.0Ø	200m	60	120 #	30M§△				MT13	AØ
96	2N5581†	11m	2.0 Ø	§S	800m		75	6.0	40	10nØ	10Ø	100u	20		250M§△		25n		TO46	AØ
97	2N5582†	11m	2.0 Ø	§S	800m		75	6.0	40	10nØ	10Ø	100u	35		300M§△		25n		TO46	AØ
98	JAN2N5660†	11mØ	2.0	§A	2.0	500m	250	6.0	200	1.0m	5.0Ø	500m	40	120 #	20M§△		250nØØ		TO66	CØ
99	JAN2N5661†	11mØ	2.0	§A	2.0	500m	400	6.0	300	10m	5.0Ø	500m	25	75 #	20M§△		250nØØ		TO66	CØ
100	2N6256	11m	2.0 Ø	§S	400m		36 †	4.0†	16	500uØ♦	5.0Ø	50m	20	200					X115	R
101	40081	11m	2.0 Ø	§J	250m			2.0		10u					27M*			DPL	TO5	AØ
102	MM3736	11m	2.0 Ø	§J	1.5		50	5.0	30	500nØ	1.5Ø	1.0	30	120 #	200M§△	900m	40nØ	AN	TO46	AØ
103	MM3737	11m	2.0 Ø	§J	1.5		75	5.0	50	500nØ	1.5Ø	1.0	20	80 #	200M§△	900m	40nØ	AN	TO46	AØ
104	MRF509	11m	2.0 Ø	§S	400m		55	3.5	30	20uΔ♦	5.0Ø	50m	30	200	1.0G§				X137	R
105	2N2952	12m	1.8 Ø	§C	250m	50m		5.0	60 Ø	100pØ	10Ø	10	20	150	200M§△	3.3			TO18	AØ
106#	2SC130	12m	1.8	§J	400m		60		50 §	100nØ	10Ø	20mΔ	20 †	150	160M†			PL	TO8	
107#	2SC234	12m	1.8	§J	1.5		100			1.0mØ	10Ø	150mΔ		20 †	140M§			EM	TO8	
108#	2SC235	12m	1.8	§J	1.5		100			1.0mØ	10Ø	150mΔ		20 †	120M§			EM	TO8	
109#	2SC236	12m	1.8	§J	500m		90			100pØ	10Ø	20mΔ		17 †	100M§			EM	TO8	
110	Q2T2222*	12mØ	1.5	§S			60		30 *	10n	1.0Ø	150m	100 #		250M§			PE	TO116	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER