

SYMBOLS & CODES EXPLAINED

IN TYPE No. CROSS-INDEX & TECHNICAL SECTIONS

- Δ } Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same.
- \square } This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the devices of one manufacturer with the devices of others.
- $\%$ } Technical Data Sections)
- RT ... Replacement Type; consult manufacturer.

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

- ∇ - New Type
- \blacklozenge - Revised Specifications
- # - Non-JEDEC Type manufactured outside U.S.A.

TYPE No.

- \dagger - Switching type, also listed in Section 12
- \emptyset - Chopper, also listed in Section 13, Category 10
- * - These types also included elsewhere with other characteristics. See Type No. Cross Index for alternate line no.
- \S - Radiation Resistant Devices, also listed in Section 13, Category 13.

STRUCTURE (All Sections)

- A - Alloy Except 6 & 7)
- AN - Annular
- D - Diffused or drift
- DM - Diffused mesa
- E - Epitaxial
- EA - Epitaxial annular
- EM - Epitaxial mesa
- F - Fused
- G - Grown
- GA - Gallium Arsenide
- H - Hometaxial
- MA - Mico alloy
- MD - Micro alloy diffused
- ME - Mesa
- MOS - Metal oxide silicon
- PA - Precision alloy
- PC - Point contact
- PD - Precision alloy diffused
- PE - Planar epitaxial
- PL - Planar
- S - Surface barrier
- * - Matched pair
- Δ - Switching, other uses
- \square - Chopper, other uses
- \emptyset - Noise figure 8db or below
- \dagger - Plastic package
- $\%$ - Overlay

2. GERMANIUM PNP 3. GERMANIUM NPN 4. SILICON PNP 5. SILICON NPN -- Low Power Transistors

LINE No.	TYPE No.	MAX. COLL. DISS. @25°C (W)	DERATE IN FREE AIR (Hz)	TEMP. RANGING @25°C (V)	ABS. MAX. RATINGS @25°C (V)	MAX. ICBO @MAX Vcb (A)	MAX. ICES (A)	TYPICAL h PARAMETERS	BIAS	COMMON EMITTER	Cob	STRUC-TURE	DWG #	REMARKS
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\emptyset - With infinite heat sink
Following symbols indicate temperature at which derating starts:

\dagger - 40°C	\square - 60°C	\S - 100°C
* - 45°C	\S - 70°C	\blacklozenge - Min.
# - 50°C	Δ - 85°C	

\dagger - f_{ae}
 \S - Gain bandwidth product (f_t)
* - Maximum frequency of oscillation
 \emptyset - Figure of merit (frequency for unity power gain)
 Δ - Minimum
 \square - Maximum

\emptyset - With infinite heat sink

* - 50-65°C	A - Ambient
\emptyset - 70-80°C	C - Case
# - 85-100°C	J - Junction
\blacklozenge - 110-125°C	S - Storage
\dagger - 130-135°C	
\S - 140-165°C	
\square - 170-200°C	
∇ - Over 200°C	

\emptyset - I_C Δ - I_B

\emptyset - V_{CE}

\emptyset - At $V_{CB} < \text{Max. } V_{CB}$ (See Mfr. Spec.)
- I_{CEX} \S - Typical
 \S - I_{CES} * - I_{CER}
 \dagger - At Temp. $> 25^\circ\text{C}$ Δ - I_{CEO}
 \blacklozenge - At Temp. 25°C Case

- Pulsed or Peak
 \S - Minimum

- BV_{CEX} or punch-through
 \emptyset - BV_{CES} \square - $BV_{ce0(sus)}$
 \S - BV_{CER} * - Pulsed
 $\$$ - Indicates min. values given for BV_{cbo} , BV_{ceo} , and BV_{ebo} .

b - h parameters are h_{ob} , h_{ib} , h_{rb}
 \square - Maximum

\dagger - h_{FE} Δ - Minimum
- Pulsed \square - Maximum
 \S - h_{FC}
* - Available in selected ranges

\square - Maximum \S - C_{cb} \dagger - C_{re}

$\$$ - Tetrode
- Radiation Resistant Device (Also See Above)

4. SILICON PNP - LOW POWER TRANSISTORS

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

LINE No.	TYPE No.	1 MAX. COLL. DISS. @ 25°C (W)	2 f (Hz)	DERATE IN FREE AIR W/C	TEMPERATURE M A M P	ABS MAX RATINGS @ 25°C				MAX. f _{cb} @ V _{cb} (A)	TYPICAL 'h' PARAMETERS			COMMON EMITTER			Cob (F)	STRUC TURE	DWG # s/a TO200 Ser.	# C O A D E		
						V _{ce} (V)	V _{ceo} (V)	V _{be} (V)	I _c (A)		V _{cb} (V)	I _e (A)	h _{fe}	h _{oe} (mhos)	h _{ie} (Ω)	h _{re} X.0001						
1	USAF515ES046MT	250m	100MΔ	1.4m	Δ	20	25	5.0	100m	10n	10	30	1.0u	32	20	8.0p	PE*	X34				
2	MT869	250m	160MΔ	1.7m	Δ	25		5.0	100m	10n	10	30	1.0u	32	20	8.0p	PE*	u13				
3	MT995	250m	160MΔ	1.7m	Δ	25		5.0	100m	10n	10	30	1.0u	32	20	8.0p	PE*	u13				
4	MT726	250m	180MΔ	1.7m	Δ	25		5.0	100m	10n	10	30	1.0u	32	20	8.0p	PE*	u13				
5#	2SA402	250m	200MΔ	60	Δ	35	30		100m	1.0u	6.0	2.0m	200			6.0p	PL	TO18				
6#	AT331	250m	200MΔ	2.5m	Δ	20	20	4.0	250m	5.0u	2.0	15m	35	#	Δ	25p	PL					
7#	AT332	250m	200MΔ	2.5m	Δ	60	50	4.0	500m	5.0u	2.0	15m	35	#	Δ	25p	PL					
8#	AT333	250m	200MΔ	2.5m	Δ	90	80	4.0	500m	5.0u	2.0	15m	35	#	Δ	25p	PL					
9	MD3133F*	250m	200MΔ	1.4m	Δ	50	35	4.0	600m	0.5u	1.0	150m	40	#	Δ	10p	ANΔ	TO89				
10	MD3134F*	250m	200MΔ	1.4m	Δ	50	35	4.0	600m	0.5u	1.0	150m	100	#	Δ	10p	ANΔ	TO89				
11	MT2411	250m	200MΔ	1.7m	Δ	25		5.0	100m	0.1u	5.0	10m	20	Δ		3.7p	PE	u13				
12	MT2412	250m	200MΔ	1.7m	Δ	25		5.0	100m	0.1u	5.0	10m	40	Δ		3.7p	PE	u13				
13#	BSS221	250m	400MΔ	2.5m	Δ	12	12	4.0	200m	80n	5.0	30m	30	Δ		6.0p	PE†	X55c	A			
14	ME82011	250m	800MΔ	2.0m	Δ	12	12	4.0	100m	1.0u	5.0	15m	80			2.5p	PE†	R97b				
15#	2S021	300m			Δ	80		4.0			1.0	10m	25	†			A					
16#	BC261	300m		2.0m	Δ	45	45	5.0	100m	5.0n	5.0	2.0m	125	Δ*			PE	R64b	A			
17#	BC263	300m		2.0m	Δ	20	20	5.0	100m	5.0n	5.0	2.0m	125	Δ*			PE	R64b	A			
18	NS1863	300m		1.7m	Δ	30	30	5.0	100m	1.0u	6.0	1.0m	50	Δ			DE	TO46	A			
19	NS1864	300m		1.7m	Δ	50	50	5.0	100m	1.0u	6.0	1.0m	50	Δ			DE	TO46	A			
20	ST8709	300m		1.6m	Δ	50	30	5.0	100m	2.0n	5.0	1.0m	80	Δ		10p	PE	TO18	∅			
21#	2S3210	300m	1.0MΔ		Δ	40	40	2.0	100m			10m	10	Δ			A	R51				
22#	2S3220	300m	1.5MΔ		Δ	40	40	2.0	100m			10m	15	Δ			A	R51				
23#	2S3221	300m	1.5MΔ		Δ	15	15	1.0	100m			10m	15	Δ			A	R51				
24#	2CY31	300m	2.5MΔ	1.7m	Δ	64	64	4.5	100m	20u	6.0	1.0m	25	Δ		80p	A	TO5				
25#	2S3230	300m	2.5MΔ		Δ	25	25	1.0	100m			10m	25	Δ			A	R51				
26#	2S022	300m	3.0MΔ		Δ	40	30	2.0	100m			10m	33	†			A					
27#	2CY32	300m	4.0MΔ	1.7m	Δ	64	64	4.5	100m	20u	6.0	1.0m	35	Δ		80p	A	TO5				
28#	2S3240	300m	4.0MΔ		Δ	15	15	1.0	100m			10m	40	Δ			A	R51				
29#	2CY34	300m	6.0MΔ	1.7m	Δ	32	32	1.6	100m	20u	6.0	1.0m	25	Δ		80p	A	TO5				
30#	2S023	300m	8.0MΔ		Δ	40	30	2.0	100m			10m	60	†			A					
31#	2S3021	300m	8.0MΔ	1.7m	Δ	15	15	1.0	100m	10u	6.0	1.0m	11		17u	800	40p	A	ZA11			
32#	2S3040	300m	3.5MΔ	1.7m	Δ	15	15	1.0	100m	10u	6.0	1.0m	39		78u	3.2k	40p	A	ZA11			
33	ST8700	300m	3.0MΔ	1.6m	Δ	50	30	5.0	100m	20n	5.0	100u	40	Δ	1.0u	32	10p	PE	TO18	∅		
34#	ZT153	300m	3.0MΔ	2.4m	Δ	35	35	2.5	500m	10u	6.0	10m	35	†		5.0p	PE	TO18				
35#	ZT154	300m	3.0MΔ	2.4m	Δ	45	45	2.5	500m	10u	6.0	10m	50	†		5.0p	PE	TO18				
36	2N1131A/51†	300m	5.0MΔ	2.0m	Δ	60	40	5.0	600m	500n	1.0	150m	20	#	Δ	1.0u	35	8.0	30p	PE	TO51	A
37	2N1132/51	300m	6.0MΔ	2.0m	Δ	50	35	5.0	600m	1.0u	1.0	150m	30	#	Δ	1.0u	35	8.0	45p	PE	TO51	A
38	2N1132B/51†	300m	6.0MΔ	1.6m	Δ	70	45	6.0	600m	1.0u	1.0	150m	30	#	Δ	1.0u	35	8.0	30p	PE	TO51	A
39	2N2927/51	300m	100MΔ	1.7m	Δ	25	25	4.0	500m	0.2u	1.0	50m	30	Δ	1.2m	1.5k	26	20p	PE	TO51	A	
40#	2SA604	300m	100MΔ	2.4m	Δ	120	100	5.0	30m	1.0u	3.0	1.0m	40	Δ		5p	PE	TO18	A			
41#	2SA605	300m	100MΔ	2.4m	Δ	180	160	6.0	50m	50n	3.0	1.0m	50	Δ		5.0p	PE	TO18	A			
42	A170	300m	100MΔ	2.0m	Δ	40	20	5.0	100m	5.0	2.0	50m	40	Δ		5.0p	PL	TO18	A			
43	GI3702	300m	100MΔ	3.0m	Δ	40	25	5.0	100m	10u	5.0	50m	60	Δ		12p	PE	R97d				
44	GI3703	300m	100MΔ	3.0m	Δ	50	30	5.0	100m	10u	5.0	50m	30	#		12p	PE	R97d				
45	ST8704	300m	100MΔ	1.6m	Δ	45	30	6.0	100m	10n	5.0	500u	60	Δ		10p	PE	TO18	∅			
46	ST8705	300m	100MΔ	1.6m	Δ	45	30	6.0	100m	10n	5.0	500u	150	Δ		10p	PE	TO18	∅			
47	TE3702	300m	100MΔ	3.0m	Δ	40	25	5.0	200m	100n	5.0	50m	300	#		12p	PE	TO106				
48	TE3703	300m	100MΔ	3.0m	Δ	50	30	5.0	200m	100n	5.0	50m	150	#		12p	PE	TO106				
49	TE5448	300m	100MΔ	2.3m	Δ	50	30	5.0	200m	100n	5.0	50m	30	Δ		12p	PE	TO106	A			
50	2N2800/51†	300m	120MΔ	1.7m	Δ	50	35	5.0	800m	1.0u	1.0	150m	30	Δ		25p	E	TO51				
51	2N2801/51†	300m	120MΔ	1.7m	Δ	50	35	5.0	100m	1.0u	1.0	150m	75	Δ		25p	E	TO51				
52	A171	300m	130MΔ	2.0m	Δ	30	20	5.0	100m	5.0	2.0	100	100	Δ		5.0p	PL	TO18	A			
53#	BC157VI	300m	130MΔ	2.4m	Δ	45	45	5.0	100m	5.0	2.0	100	100	Δ	20u	1.2k	2.5	6.0p	PE†	MM10	A	
54#	BC158VI	300m	130MΔ	2.4m	Δ	25	20	5.0	100m	5.0	2.0	100	100	Δ	20u	1.2k	2.5	6.0p	PE†	MM10	A	
55	2N2391	300m	140MΔ	2.0m	Δ	25	20	5.0	50m	1.0u	1.0	10m	15	Δ		5.0p	PE	u25	A			
56	2N2392	300m	140MΔ	2.0m	Δ	25	20	5.0	50m	1.0u	1.0	10m	30	Δ		5.0p	PE	u25	A			
57	2N3081/51	300m	150MΔ	1.7m	Δ	70	50	6.0	600m	0.1u	1.0	150m	30	Δ		13p	PE	TO51	A			
58#	V205†	300m	160MΔ	2.0m	Δ	15	10	3.0	200m	0.2u	1.0	20m	55	#		8.0p	DPE	TO18	A			
59#	AT410	300m	200MΔ	2.4m	Δ	30	30	5.0	500m	200n	1.0	150m	30	Δ		8.0p	PE	MM12aD				
60#	AT412	300m	200MΔ	2.4m	Δ	45	45	5.0	500m	200n	1.0	150m	30	Δ		8.0p	PE	MM12aD				
61#	AT413	300m	200MΔ	2.4m	Δ	45	45	5.0	500m	200n	1.0	150m	100	Δ		8.0p	PE	MM12aD				
62#	AT414	300m	200MΔ	2.4m	Δ	30	30	5.0	500m	200n	1.0	150m	100	Δ		8.0p	PE	MM12aD				
63#	AT415	300m	200MΔ	2.4m	Δ	30	30	5.0	500m	200n	1.0	150m	30	Δ		8.0p	PE	MM12aD				
64#	AT416	300m	200MΔ	2.4m	Δ	45	45	5.0	500m	200n	1.0	150m	30	Δ		8.0p	PE	MM12aD				
65#	AT417	300m	200MΔ	2.4m	Δ	45	45	5.0	500m	200n	1.0	150m	100	Δ		8.0p	PE	MM12aD				
66#	AT418	300m	200MΔ	2.4m	Δ	30	30	5.0	500m	200n	1.0	150m	30	#	Δ		8.0p	PE	MM12aA			
67#	AT419	300m	200MΔ	2.4m	Δ	3																

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.
 ▼ - New Type
 ♦ - Revised Specifications
 # - Non-JEDEC type manufactured outside U.S.A.

TYPE No.
 † - Switching type, also listed in Section 12
 ∅ - Chopper, also listed in Section 13, Category 10
 * - These types also included elsewhere with other characteristics. See Type No. Cross Index for alternate line number.
 § - Radiation Resistant Devices, also listed in Section 13, Category 13.

STRUCTURE (All Sections)
 A - Alloy Except 6 & 7)
 AN - Annular
 D - Diffused or drift
 DM - Diffused mesa
 E - Epitaxial
 EA - Epitaxial annular
 EM - Epitaxial mesa
 F - Fused
 G - Grown
 GA - Gallium Arsenide
 H - Hometaxial
 MA - Mico alloy
 MD - Micro alloy diffused
 ME - Mesa
 MOS - Metal oxide silicon
 PA - Precision alloy
 PC - Point contact
 PD - Precision alloy diffused
 PE - Planar epitaxial
 PL - Planar
 S - Surface barrier
 * - Matched pair
 Δ - Switching, other uses
 □ - Chopper, other uses
 ∅ - Noise figure 8db or below
 † - Plastic package
 % - Overlay

12. SWITCHING TRANSISTORS * THESE TYPES ALSO INCLUDED ELSEWHERE WITH OTHER CHARACTERISTICS SEE TYPE NO. CROSS INDEX FOR ADDITIONAL PAGE & LINE NO.

LINE No.	TYPE No.	fab (Hz)	MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. P _c IN FREE AIR @ 25°C (W)	BIAS			MAX. SAT. RES. (Ω)	C _{ob} (F)	r _{bb} X C _{ob} (s)	STRUCTURE	DESCRIPTION	MAX. TEMP (°C)	DWG. No.	LCODE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

† - $f \alpha_e$
 § - Gain bandwidth product (f_T)
 * - Maximum frequency of oscillation
 ∅ - Figure of merit (frequency for unity power gain)
 Δ - Minimum □ - Maximum

§ - Charge storage time constant
 ▼ - Stored base charge - picocoulomb
 ♦ - Total switching time
 ∅ - $T_{on} = t_r + t_d$
 † - Typical Value

∅ - $T_{off} = t_s + t_f$
 † - Typical Value
 * - $T_{on} + T_{off} = t_d + t_r + t_f + t_s$

∅ - V_{CE}
 ∅ - I_C
 Δ - I_B
 † - h_{fe}
 # - Pulsed
 Δ - Minimum
 □ - Maximum
 * - Available to selected range narrower than indicated
 § - Y_{fs} in millimho (FET's only). Bias values are V_{DS} & I_D
 ∅ - With infinite heat sink
 Following symbols indicate temperature at which derating starts:
 † - 40°C § - 70°C
 * - 45°C ♦ - 100°C or greater
 # - 50°C ∅ - 80°C
 □ - 60°C Δ - Pulsed

† - r'_{bb}
 □ - Maximum
 § - C_{cb}
 § - C_{iss} (FET's only)

§ - Tetrode
 N - NPN or "N" Channel
 P - PNP or "P" Channel
 § - Field Effect Transistor
 # - Radiation Resistant Device (See above also)

A - Ambient
 C - Case
 J - Junction
 S - Storage

13. MISCELLANEOUS TRANSISTORS

LINE No.	TYPE No.	CATEGORY	STRUCTURE	MATERIAL	DWG. No.	LCODE	DESCRIPTION
1	2	3	4	5	6	7	8

- 1 - Avalanche Mode
- 2 - Bi-directional
- 3 - Field Effect
- 4 - Hook Collector
- 5 - Complementary Symmetry (PNP & NPN) Matched Pair
- 6 - Matched Pair
- 7 - Phototransistor
- 8 - Tetrode
- 9 - Unijunction: N-N-type emitter (P-type Base) P-P-type emitter (N-type Base)
- 10 - Chopper
- 11 - Unmatched Composite (Dual)
- 12 - Cryogenic
- 13 - Radiation Resistant Devices
- 14 - Pressure Sensitive
- 15 - Transistor chips
- 16 - Darlington
- 17 - Microwave

N - NPN or N Channel
 P - PNP or P Channel (See above also)

Ge - Germanium
 Si - Silicon

See "TECHNICAL TERM DEFINITIONS" Section

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	TYPE No.	fab (Hz)	MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS			MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-NPN N-NPN	M	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	#	C O D E
								Vcb (V)	le (A)	hFE									
1#	FM708	300MΔ	40n∅			70n∅	350m	1.0∅	10m∅	30 #∇	40	6.0p∇	N	Si	200	TO46			
2#	FV914	300MΔ	40n∅			40n∅	350m	1.0∅	10m∅	55 #	3.5	6.0p∇	N-PE	Si	300S	u5b			
3#	PEP2	300M	40n∅		25n	75n∅	300m	1.0∅	10m∅	20 #		6.0p	N-PE	Si	200	TO18			
4#	PEP5	300MΔ	40n∅		25n	75n∅	300m	1.0∅	10m∅	40		6.0p	N	Si	200	TO18			
5#	PEP6	300MΔ	40n∅		25n	75n∅	300m	1.0∅	10m∅	40		6.0p	N	Si	200	TO18			
6#	PEP7	300MΔ	40n∅		25n	75n∅	300m	1.0∅	10m∅	40		6.0p	N	Si	200	TO18			
7#	PEP8	300MΔ	40n∅		25n	75n∅	300m	1.0∅	10m∅	40		6.0p	N	Si	200	TO18			
8#	ST59	300MΔ	40n∅		20n	40n∅	360m	1.0∅	10m∅	30 #Δ		9.0p∇	N-PE	Si	200	TO18			
9#	TE3606	300MΔ	40n∅		35n	60n∅	500m∅	1.0∅	10m∅	30 Δ	25	6.0p∇	N-DPL	Si	150J	R97	A		
10#	TE3606A	300MΔ	40n∅		35n	60n∅	320m	1.0∅	10m∅	120 ∇		25p	N	Si	120J	TO106	A		
11#	TIS46	300MΔ	40n∅		20n	40n∅	360m	1.0∅	10m∅	120 #∇		6.0p∇	P-E	Si	150J	TO92			
12#	TE3607	300MΔ	45n∅		45n	70n∅	500m∅	1.0∅	10m∅	30 Δ	25	6.0p∇	N-DPL	Si	150J	R97	A		
13#	D11E404	300MΔ	50n∅		100n∅		800m	5.0∅	800m	12 Δ#		10p∇	N-EP	Si	200J	TO5			
14#	GME9022	300MΔ	50n∅			70n∅	625m∅	1.0∅	10m∅	30 Δ		6.0p∇	N-PE	Si	125S	X45			
15#	PET9004	300M	50n∅		20n	70n∅	250m	1.0∅	10m∅	100		6.0p∇	N-PE	Si	125	TO18			
16#	PET9022	300MΔ	50n∅			70n∅	800m∅	1.0∅	10m∅	30 Δ	40	6.0p∇	N	Si	125J	R110	A		
17#	XT300	300MΔ	50n∅			70n∅	75m	300m∅	10m	40	12	6.0p∇	P-D	Ge	100S	TO18			
18#	D11E405	300MΔ	60n∅		100n∅		800m	5.0∅	800m	12 Δ#		10p∇	N-EP	Si	200J	TO5			
19#	D11E406	300MΔ	70n∅		130n∅		800m	5.0∅	800m	12 Δ#		9.0p∇	N-EP	Si	200J	TO5			
20#	D11E407	300MΔ	70n∅		130n∅		800m	5.0∅	800m	12 Δ#		9.0p∇	N-EP	Si	200J	TO5			
21#	BSW33	300MΔ	200n∅	30nt	150nt	40nt	125m#	0.0	10m	180		3.0ps	N-PE†	Si	125J	MM13	F		
22#	BSW34	300MΔ	200n∅	30nt	150nt	40nt	125m#	0.0	10m	300 ∇		3.0ps	N-PE†	Si	125J	MM13	F		
23#	BSW35	300MΔ	200n∅	30nt	150nt	40nt	125m#	0.0	10m	200 ∇		3.0ps	N-PE†	Si	125J	MM13	F		
24#	2G103	300M	400n∅				150m	5.0	10m	40			P-ME	Ge	100J	TO18			
25#	TE706	320MΔ			60n		650n∅	1.0∅	10m∅	20 Δ	60	6.0p∇	N	Si	175J	R97a			
26#	ZSC150H	320MΔ	.08n	.05n	.15n	.08n	750m	6.0∅	10m∅	20 Δ		7.0p	N	Si	100S	TO18	A		
27#	2N779B	320MΔ	18n	50n\$	18n		150m	5.0∅	50m∅	35 Δ	4.0	2.5p∇	N	Si	100S	TO18	A		
28#	2N846	320MΔ	18n			18n	60m	500m∅	50m∅	20 Δ	5.0	2.5p∇	P	Ge	100S	TO18	A		
29#	2N846B	320MΔ	18n	50n\$		18n	150m	.50∅	50m∅	20 Δ	14	2.5p∇	P	Ge	100S	TO18	A		
30#	101A	320MΔ	80n∅		120n	80n	150m	3.0∅	50m∅	40	30		P-ME	Ge	100S	TO18			
31#	101B	320MΔ	80n∅		120n	80n	150m	3.0∅	50m∅	40	30		P-ME	Ge	100S	TO18	A		
32#	101M	320MΔ	80n∅		120n	80n	150m	3.0∅	50m∅	40	30		P-ME	Ge	100S	TO18	A		
33#	C722	350MΔ		35nt∅		240u∅†	360m	1.0∅	10m∅	120		3.0p	N-PE	Si	200	TO18	A		
34#	ST64	350MΔ			18n		360m	1.0∅	10m∅	40 #Δ		4.0p∇	N-PE	Si		TO18			
35#	GET2369	350MΔ	12n∅	12n∅	18n	18n∅	360m	1.0∅	10m∅	120 ∇	25	4.5ps∇	N-PE	Si	125J	TO18			
36#	TE2369	350MΔ	12n∅	12n∅	13n	18n∅	250m	2.0∅	100m∅	20 #Δ	25	4.0p∇	N-DPL	Si	150J	R97a	A		
37#	TIS55	350MΔ	15n		20n	15n	360m	500m∅	100m∅	25 #Δ		5.0p∇	N-PE	Si	125J	TO92			
38#	TIS52	350MΔ	16n∅		20n	25n∅	360m	.40∅	30m∅	120 #∇		5.0p∇	P-E	Si	150J	TO92			
39#	MD1128	350MΔ	20n∅	30n∅	35n∅		300m	1.0∅	10m∅	25 Δ		4.0p∇	P-PE	Si	200J	L2d			
40#	2N834/51	350MΔ	35n∅		25n	50n	300m	1.0∅	10m∅	25 Δ	25	4.0p∇	N-E	Si	175J	TO51			
41#	16J1	350MΔ	35n∅		18n	45n∅	200m	1.0∅	10m∅	30 Δ	25	6.0p∇	N-PE	Si	100J	R67	B		
42#	40220	350MΔ	35n∅	25n\$		75n∅	300m	1.0∅	10m∅	25 Δ		4.0p∇	N	Si	175	TO52			
43#	16J2	350MΔ	45n∅		40n	60n∅	200m	1.0∅	10m∅	30 Δ	25	6.0p∇	N-PE	Si	100J	R67	B		
44#	ST58	360MΔ	40n∅		25n	75n∅	360m	1.0∅	10m∅	30 #Δ		6.0p∇	N-PE	Si	100J	TO18			
45#	2SA548H	400MΔ			150n		200m	1.0∅	10m∅	1.0 ∇		8.0p	P	Si	175J				
46#	BSV53	400M		12n	13n	10n	300m	1.0∅	10m∅	120 ∇	2.5	4.0p	N	Si	150	u34			
47#	BSV53P	400M		12n	13n	10n	150m	1.0∅	10m∅	120 ∇	2.5	4.0p	N	Si	150	u17c	E		
48#	BSV54	400M		12n	13n	10n	300m	1.0∅	10m∅	120 ∇	2.5	4.0p	N	Si	150	u34			
49#	BSV54P	400MΔ		12n	13n	10n	150m	1.0∅	10m∅	120 ∇	2.5	4.0p	N	Si	150	u17c	E		
50#	ST80	400MΔ			18n		360m	1.0∅	10m∅	30 #Δ		4.0p∇	N-PE	Si		TO18			
51#	ST81	400MΔ			18n		360m	1.0∅	10m∅	20 #Δ		4.0p∇	N-PE	Si		TO18			
52#	ST82	400MΔ			18n		360m	1.0∅	10m∅	40 #Δ		4.0p∇	N-PE	Si		TO18			
53#	ST80	400MΔ			10n		360m	1.0∅	10m∅	25 #Δ		4.0p∇	N-PE	Si		TO18			
54#	GME9001	400MΔ	9.0nt∅			13nt∅	625m∅	1.0∅	10m∅	120 ∇		4.0p∇	N-PE	Si	125S	X45			
55#	GME9002	400MΔ	9.0nt∅			15nt∅	625m∅	1.0∅	10m∅	150 ∇		4.0p∇	N-PE	Si	125S	X45			
56#	PET9001	400MΔ	9.0nt∅			13nt∅	800m∅	1.0∅	10m∅	120 ∇	25	4.0p∇	N	Si	125J	R110	A		
57#	PET9002	400MΔ	9.0nt∅			13nt∅	800m∅	1.0∅	10m∅	150 ∇	25	4.0p∇	N	Si	125J	R110	A		
58#	2N977	400MΔ	10n		20n		150m	3.0∅	40m∅	50 Δ	2.5	8.0p∇	P	Ge	100S	TO18	A		
59#	97EPA	400MΔ	12n∅			18n∅	300m	1.0∅	10m∅	60 Δ		4.0p∇	N-PL†	Si	125J	u46	A		
60#	97EPB	400MΔ	12n∅			18n∅	300m	1.0∅	10m∅	150 ∇		4.0p∇	N-PL†	Si	125J	u46	A		
61#	BSW78	400MΔ	12n∅		10n	15n∅	200m	2.0∅	100m∅	10 #Δ	25	2.5p	N-PE†	Si	125J	X64	A		
62#	BSX19∅	400MΔ	12n∅		10n	18n∅	360m	1.0∅	10m∅	60 ∇	30		N-PE S	Si	200J	TO18	A		
63#	C1001	400M	12n∅			18n∅	360m	1.0∅	10m∅	40 †		4.0p	N	Si	200J	TO18	A		
64#	FM2368	400MΔ	12n∅			15n∅	300m	1.0∅	10m∅	20 #Δ	25	4.0p∇	N	Si	200	TO46			
65#	P346	400MΔ	12n∅		15n	18n∅	300m	2.0∅	10m∅	25 †		4.5p∇	N-PE	Si	175A	TO18			
66#	PET9001A	400MΔ	12n∅			15n	800m∅	1.0∅	10m∅	120 ∇	25	4.0p∇	N	Si	125J	R110	A		
67#	PET9002A	400MΔ	12n∅			15n	800m∅	1.0∅	10m∅	150 ∇	25	4.0p∇	N	Si	125J	R110	A		
68#	TIS47	400MΔ	12n∅		13n	18n∅	360m	1.0∅	10m∅	20 #Δ	25	4.0p∇	N-PE	Si	150J	TO92			
69#	TP4274	400MΔ	12n∅	13n\$		12n∅	500m∅	1.0∅	100m∅	18 Δ#		4.0ps∇	N-PL	Si	125J	X55a	A		
70#	TP4275	400MΔ	12n∅	13n\$		12n∅	500m∅	1.0∅	100m∅	18 Δ#		4.0ps∇	N-PL	Si	125J	X55a	A		
71#	A3T3011	400MΔ	15n∅		14n	20n∅	225m	350m∅	10m∅	120 #∇		4.0p∇	N-PE†	Si	150S	u44	A		
72#	BSS21	400MΔ	15n∅		18n	23n∅	250m	.40∅	30m∅	25 Δ	20	4.0p∇	N-PE†	Si	150S	X55c	A		
73#	TIS51	400MΔ	15n∅		18n	23n∅	360m	400m∅	30m∅	25 #Δ		4.0p∇	N-PE	Si	150J	TO92			
74#	2N743/46	400MΔ	16n∅		14n	10n	300m	1.0∅	100m∅	10 †	35	5.0p∇	N-E	Si	175J	TO51			
75#	2N743/51	400MΔ	16n∅		14n	10n	300m	1.0∅	100m∅	10 †	35	5.0p∇	N-E	Si	175J	TO51			
76#	2N744/46	400MΔ	16n∅		18n	10n	400m	1.0∅	100m∅	20 †	35	5.0p∇	N-E	Si	175J	TO46			
77#	2N744/51	400MΔ	16n∅		18n	10n	300m	1.0∅	100m∅	20 †	35	5.0p∇	N-E	Si	175J	TO51			
78#	B2	400MΔ	20n∅		20n	40n∅	150m	500m∅	1.0∅	40 Δ		6.0p∇	N	Si	125J				
79#	B3	400MΔ	20n∅																