

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 W/°C	M E X P	ABS. MAX. RATINGS @25°C			TYPICAL 'h' PARAMETERS					Cob (F)	STRUC-TURE	DWG # s/a TO200 Ser.	# C O A D E	
					V_{cb0} (V)	V_{ce0} (V)	V_{eb0} (V)	I_{c0} (A)	I_{cb0} @MAX V_{cb} (A)	V_{cb} (V)	BIAS I_e (A)	h_{fe}					COMMON h_{oe} (mhos)
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

\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_{cb0} , BV_{ce0} , and BV_{eb0} .

11-13 $b - h$ 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)

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	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A M X P	ABS MAX RATINGS @25°C						TYPICAL h PARAMETERS										Cob (F)	STRUC-TURE	DWG Y200 s/a TO200 Ser.	# E A D E	
						MAX. BV			MAX. Ic			MAX. Icb			BIAS			COMMON EMITTER								
						BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	Icbo (A)	Icbo @MAX Vcb (A)	Vcb (V)	Ic (A)	hfe	hoe (mhos)	hie (Ω)	hre (X.0001)	hfe	hoe (mhos)	hie (Ω)	hre (X.0001)					
1	PMT122	100m	400M	1.7m	§J	50	20	5.0	220m	50u	3.0	10m	2.0	2.0	2.0	2.0	2.0	5p	ME	u6						
2	PMT222	100m	400M	1.7m	§J	50	20	5.0	220m	50u	3.0	10m	2.0	2.0	2.0	2.0	2.0	5p	ME	u5						
3	2SC430	100m	420M		§J	25	12	2.0	10m	1.0u	6.0	1.0m	4.0	4.0	4.0	4.0	6.0u	PE	u23	C						
4	2N708/TNT	100m	480MΔ	555u	§J	40	15	5.0	10m	2.5n	1.0	10m	30	1Δ#			6.0p	PL	u17							
5	2SC286	100m	600MΔ		§J	20	12	2.0	10m	1.0u	6.0	2.0m	70				1.0p	PE	u23							
6	2SC287	100m	600MΔ		§J	20	12	2.0	10m	1.0u	6.0	2.0m	70				1.0p	PE	u23							
7	10D556.2.3	100m	600MΔ	1.0m	§J	25	15	3.0		1.0u	1.0	3.0m	20	1Δ			1.7p	PE	u27							
8	PMT023†	100m	750M	1.0m	§J	25	20	3.0		50u	1.0	10m	20	#Δ			5.0p	ME	u7							
9	PMT216†	100m	750M	1.3m	§J	25	20	3.0		50u	1.0	10m	20	#Δ			5.0p	ME	u7							
10	2N709/TNT	100m	800MΔ	556u	§J	15	6.0	4.0	500m	.05u	.50	10m	55	†			3p	PL	u17							
11	2N2369/TNT	100m	800MΔ	556u	§J	40	15	4.5	500m	.40u	1.0	10m	80	†			4p	PL	u17							
12	2N2594/TNT	100m	800MΔ	556u	§J	40	15	4.5	500m	.40u	1.0	10m	80	†			4p	PL	u17							
13	2SC271	100m	800MΔ		§J	25	12	3.0	20m	1.0u	6.0	2.0m	70				1p	PE	u23a	C						
14	2SC288	100m	850MΔ		§J	30	12	2.0	10m	1.0u	6.0	2.0m	70				1p	PE	u23a	C						
15	Q2	100m	900MΔ	1.0m	§J	30	25	4.0	10m	100n	6.0	2.0m	40	1Δ			1.8p	E								
16	Q3	100m	900MΔ	1.0m	§J	30	25	4.0	10m	100n	6.0	2.0m	60	1Δ			1.8p	E								
17	Q4	100m	900MΔ	1.0m	§J	30	25	4.0	10m	100n	6.0	2.0m	90	1Δ			1.8p	E								
18	Q5	100m	900MΔ	1.0m	§J	30	25	4.0	10m	100n	6.0	2.0m	135	1Δ			1.8p	E								
19	2N2784/TNT	100m	1.0G	556u	§J	15	6.0	4.0	500m	5n	.50	10m	120	†			3p	PE	u17							
20	2SC289	100m	1.1G		§J	25	12	3.0	10m	1.0u	6.0	2.0m	70				1p	PE	u23	C						
21	2N3633/TNT	100m	1.3G	556u	§J	15	6.0	4.0	50m	5n	.50	10m	150	†			2.5p	PE	u17							
22	BC155A	105m*	50MΔ	1.3m	§J	5.0	5.0*	5.0	50m	100n	1.0	500u	85	Δ				PE†	u30b	D						
23	BC155B	105m*	50MΔ	1.3m	§J	5.0	5.0*	5.0	50m	100n	1.0	500u	200	Δ				PE†	u30b							
24	BC155C	105m*	50MΔ	1.3m	§J	5.0	5.0*	5.0	50m	100n	1.0	500u	470	Δ				PE†	u30b							
25	BFY69	105m*	50MΔ	1.3m	§J	25	15	5.0	50m	100n	1.0	500u	40	Δ*				PE†	u30b	D						
26	BFY69A	105m*	50MΔ	1.3m	§J	25	15	5.0	50m	100n	1.0	500u	55	Δ*				PE†	u30b	D						
27	BC194†	105m*	250MΔ	1.3m	§J	40	25	5.0	800m	10u	1.0	150m	20	1Δ#			8.0p	PE†	u30b	D						
28	2N778	110m		1.2m	§J	20		2.0	100m		10	2.0m	11				1.5p	D		TO18						
29	BFS18CA	110m	200M	1.1m	§J	30	20	5.0	30m	100n	10	1.0m	125	†			1.0p	PE	u56a	A						
30	BFS19CB	110m	260M	1.1m	§J	30	20	5.0	30m	100n	10	1.0m	225	†			1.0p	PE	u56a	A						
31	BF19	120m*	260M	2.7m	§J	40	35	4.0	20m	500n	7.0	1.0m	180				1.1p	PE	TO98	B						
32	BF220	120m*	260M	2.7m	§J	40	35	4.0	20m	500n	7.0	1.0m	180				1.1p	PE	TO98	B						
33	2SC705	120m	800M		§J	15		3.0	30m	1.0u	6.0	1.0m	80	†			1.1p	PE	R145	D						
34	3N26	125m			§J	30			10m									G								
35	3N27	125m			§J	30			10m									G								
36	4D24	125m		1.2m	§J	15	15	1.0	25m	1.0u	5.0	10m	33	†			200nb	GD	TO5	A						
37	4D25	125m		1.2m	§J	15	15	1.0	25m	1.0u	5.0	10m	88	†			200nb	GD	TO5	A						
38	4D26	125m		1.2m	§J	15	15	1.0	25m	1.0u	5.0	10m	133	†			200nb	GD	TO5	A						
39	925	125m			§J	30			10m									D								
40	926	125m			§J	30			10m									D								
41	D4D24	125m		1.2m	§J	15	15	1.0	25m	1.0u	5.0	10m	33	†			200nb	GD	TO5	A						
42	D4D25	125m		1.2m	§J	15	15	1.0	25m	1.0u	5.0	10m	88	†			200nb	GD	TO5	A						
43	D4D26	125m		1.2m	§J	15	15	1.0	25m	1.0u	5.0	10m	133	†			200nb	GD	TO5	A						
44	2S005	125m	30 Δ	1.0m	§J	40			20m	1.0u	5.0	20	100				200nb	GD	TO5							
45	3N32	125m	4.3M		§J	30			10m				40					D								
46	2N1103†	125m	10MΔ	1.0m	§S	45	35	1.0	20m	1.0u	20	1.0m	20	Δ			1.0u	z	80	z	20	z	3.0p	z	TO5	A
47	10T2	125m	10M	1.1m	§J	30			25m			1.0m	31	†												
48	11T2	125m	10M	1.1m	§J	30			25m			1.0m	63	†												
49	12T2	125m	10M	1.1m	§J	30			25m			1.0m	100	†												
50	3N33	125m	12M		§J	30			10m																	
51	2S014	125m	20M	1.0m	§J	40		1.0	20m	1.0u	20	1.0m	65				200nb	GD	R30							
52	NS075	125m	20M	1.0m	§J	45		1.0	20m		20	1.0m	65				200nb	ME								
53	ST1694	125m	20M	7.7m	§J	40	20	1.0	20m	2.0u	5.0	10m	40	1Δ												
54	2SC157	125m	25M		§	20		1.0	20m	1.0u	6.0	2.0m	30													
55	NS078	125m	30M	1.0m	§J	45		1.0	20m		20	1.0m	99				200nb	ME								
56	2SC158	125m	40M		§	20		1.0	20m	1.0u	6.0	2.0m	40													
57	2SC159	125m	60M		§	20		1.0	20m	1.0u	6.0	2.0m	50													
58	3N35A	125m	70MΔ	1.0m	§S	30	30	1.0	20m	.40u	20	1.3m	10	Δ												
59	2SC160	125m	100M		§	20		1.0	20m	1.0u	6.0	2.0m	60													
60	3S002	125m	100M	1.0m	§J	30		1.0	20m	10u	20	1.0m	25													
61	3S004	125m	150M	1.0m	§J	30		1.0	20m	10u	20	1.0m	25													
62	BSW33†	125m*	300M	1.6m	§J	40	32	5.0	100m	70n	0.0	10m	60	1Δ												
63	BSW34†	125m*	300M	1.6m	§J	50	45	5.0	100m	70n	0.0	10m	60	1Δ												
64	BSW35†	125m*	300M	1.6m	§J	60	60	5.0	100m	70n	0.0	10m	50	1Δ												
65	ST63†	125m	300MΔ		§S	15	12	6.5	50m	10u	.35	5.0m	40	†#Δ												
66	BFS57P	125m	1.7G	1.0m	§A	25	13	3.0	50m	10n	6.0	5.0m	20	Δ												
67	K5202	125m	1.8GΔ	1.0m	§J	25	12	2.5	50m	50n	1.0	3.0m	20	1Δ												
68	BFS58P	125m	2.4Gz	1.0m	§A	25	13	3.0	50m	20n	6.0	5.0m	20	Δ												
69	2N777	130m		1.2m	§	20		2.0	100m		10	2.0m	20													
70	BC155	130m	50MΔ	1.3m	§J	5.0	5.0	5.0	50m	10u	1.0	50m	85	Δ												
71	BC129A	135m	85M	1.0	§J	50	45	6.0	100m	15u	5.0	2.0m	125	Δ			18u	3.0k	1.0							
72	BC129B	135m	85M	1.0	§J	50	45	6.0	100m	15u	5.0	2.0m	240	Δ			30u	5.0k	1.3							
73	BC130A	135m	85M	1.0	§J	30	20	5.0	100m	15u	5.0	2.0m	125	Δ			18u	3.0k	1.0							
74	BC130B	135m	85M	1.0m	§J	30	20	5.0	100m	15u	5.0	2.0m	240	Δ			30u	5.0k	1.3							
75	BC130C	135m	85M	1.0m	§J	30	20	5.0	100m	15u	5.0	2.0m	470	Δ			50u	7.5k	2.3							
76	BC131B	135m	85M	1.0	§J	30	20	5.0	100m	15u	5.0	2.0m	240	Δ			30u	5.0k	1.3							
77	BC131C	135m	85M	1.0m	§J	30	20	5.0	100m	15u	5.0	2.0m	470	Δ			50u	7.5k	2.3							
78	64EPA	140m#	50MΔ	2.0m	§J	45	45	5.0	30m	.01u	5.0															

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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 W/°C (Hz)	TEMP. RANGING @25°C (V)	ABS. MAX. RATINGS @25°C (V)	MAX. ICBO @MAX Vcb (A)	MAX. ICES @MAX Vcb (A)	TYPICAL h PARAMETERS	BIAS	COMMON EMITTER	Cob (F)	STRUC-TURE	DWG # s/a TO200 Ser.	PL C A D E
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\blacklozenge - 110-125°C	S - Storage
\dagger - 130-135°C	
\S - 140-165°C	
$\$$ - 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} $\$$ - Typical
 \S - I_{CES} * - I_{CER}
 \dagger - At Temp. $> 25^\circ\text{C}$ Δ - I_{CEO}
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b - h parameters are h_{ob} , h_{ib} , h_{rb}
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\square - Maximum $\$$ - C_{cb} \dagger - C_{re}

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

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	TEMP. RANGE °C	ABS. MAX. RATINGS @25°C				MAX. Ic @ MAX Vcb (A)	TYPICAL 'h' PARAMETERS			Cob (F)	STRUC-TURE	DWG # s/a TO200 Ser.	# OF LEADS
						Vbco (V)	Vceo (V)	VVebo (V)	Ic (A)		Vcb (V)	le (A)	hfe				
1	TMT697	150m	100M	833u	5J	60	40	5.0	200m#	1.0u	10	150m	75	1	ME	T051	
2	2N1613/51	150m	130M	833u	5J	75	50	7.0		0.1u	10	150m	80	1#	PLTΔ	T051	
3	2N1613/TPT	150m	130M	833u	5J	75	50	7.0		0.1u	10	150m	80	1#	PLTΔ	X31	
4#	25C621†	150m	150M	1.2m	5J	25	15	4.0	100m	1.0u	6.0	10m	75	1#	PE	R126	A
5#	25C621A†	150m	150M	1.2m	5J	30	25	4.0	100m	1.0u	6.0	10m	75	1#	PE	R107c	
6#	25C622	150m	150M	1.2m	5J	25	15	4.0	100m	1.0u	6.0	10m	75	1#	PE	R126	
7#	25C912†	150m	150M	1.2m	5J	30	25	4.0	100m	1.0u	6.0	10m	90	1#	PE	R126	A
8#	BFS29P	150m	150M	1.2m	5J	45	45	5.0	200m	20n	15	100m	40	1Δ	PE	u17c	E
9#	BFS30P	150m	150M	1.2m	5J	45	45	5.0	200m	20n	15	100m	60	1Δ	PE	u17c	E
10#	BFS31P	150m	150M	1.2m	5J	45	30	5.0	200m	20n	15	100m	80	1Δ	PE	u17c	E
11	MT104	150m	150M	1.0m	5J	60	60	5.0		1.0u	10	150m	40	1	PE	u15	
12	NS6207†	150m	150M	1.2m	5J	45	50	5.0		200n	1.0	150m	30	1#Δ	PE	X16	
13	NS6212	150m	150M	1.2m	5A	150	150	6.0		50n	10	10m	50	1Δ	PE	X16	
14	2N1711/51	150m	160M	833u	5J	75	50	7.0		0.1u	10	150m	130	1	PLΔ	T051	
15	2N1711/TPT	150m	160M	833u	5J	75	50	7.0		0.1u	10	150m	130	1	PLΔ	X31	
16#	L4	150m	180M	1.5m	5J	50	40	5.0	100m	100n	6.0	1.0m	90	1Δ	PE		
17#	L5	150m	180M	1.5m	5J	50	40	5.0	100m	100n	6.0	1.0m	135	1Δ	PE		
18#	L6	150m	180M	1.5m	5J	50	40	5.0	100m	100n	6.0	1.0m	200	1Δ	PE		
19#	L7	150m	180M	1.5m	5J	50	40	5.0	100m	100n	6.0	1.0m	300	1Δ	PE		
20#	M3	150m	180M	1.5m	5J	50	40	5.0	100m	100n	6.0	1.0m	60	1Δ	PE		
21#	BFY37L	150m	200M	1.0m	5J	25	20	5.0	100m	100n	10	10m	35	1Δ	PE	u56b	A
22#	D6	150m	200M	1.5m	5J	30	25	5.0	30m	50n	3.0	500u	200	1Δ	PE		
23#	D7	150m	200M	1.5m	5J	30	25	5.0	30m	50n	3.0	500u	300	1Δ	PE		
24#	D8	150m	200M	1.5m	5J	30	25	5.0	30m	50n	3.0	500u	450	1Δ	PE		
25	NS6203	150m	200M	1.2m	5J	30	30	5.0		0.2u	10	10m	100	1Δ	PE	X16	
26	2N3131†	150m	250M	1.1m	5J	40	15	5.0	100m	25n	1.0	10m	30	1Δ	PE	X16	
27#	BCW60A†	150m*	250M	1.2m	5J	32	32	5.0	100m	20n	5.0	2.0m	200		PE	u56a	A
28#	BCW60B†	150m*	250M	1.2m	5J	32	32	5.0	100m	20n	5.0	2.0m	260	24	PE	u56a	A
29#	BCW60C†	150m*	250M	1.2m	5J	32	32	5.0	100m	20n	5.0	2.0m	330	30	PE	u56a	A
30#	BCW60D†	150m*	250M	1.2m	5J	32	32	5.0	100m	20n	5.0	2.0m	520	50	PE	u56a	A
31#	F1	150m	250M	1.5m	5J	50	25	5.0	50m	100n	3.0	500u	30	1Δ	PE		
32#	F2	150m	250M	1.5m	5J	50	25	5.0	50m	100n	3.0	500u	40	1Δ	PE		
33#	F3	150m	250M	1.5m	5J	50	25	5.0	50m	100n	3.0	500u	60	1Δ	PE		
34#	F4	150m	250M	1.5m	5J	50	25	5.0	50m	100n	3.0	500u	90	1Δ	PE		
35#	F5	150m	250M	1.5m	5J	50	25	5.0	50m	100n	3.0	500u	135	1Δ	PE		
36#	25C100†	150m	300M	1.2m	5J	40	15	5.0	200m	25n	1.0	10m	30	1Δ	PE	u23	C
37#	25C405†	150m	300M	1.2m	5J	15	15	3.5	50m	3.0u	30	10m	40	1Δ	ME	T018	
38	2N706/TPT	150m	320M	833u	5J	25	20	3.0		0.5u	1.0	10m	20	1#Δ	D	X31	
39	2N706A/TPT	150m	320M	833u	5J	25	15	5.0		0.5u	1.0	10m	20		D	X31	
40#	25C739	150m	350M	1.5m	5J	25	12	4.0	20m	1.0u	6.0	1.0m	60	1#	PE†	T092	D
41	2N2218/TPT	150m	400M	833u	5J	60	30	5.0		0.1u	10	150m	80	1	PE	X31	
42	2N2219/TPT	150m	400M	833u	5J	60	30	5.0		0.1u	10	150m	150	1	PE	X31	
43#	25C659	150m	400M	1.2m	5J	25	12	4.0	20m	1.0u	6.0	1.0m	60	1#	PE	R126	
44	A466	150m	400M	1.0m	5J	40	30	4.0	25m	10u	10	4.0m	60	1	PE	T072	J
45#	B2†	150m	400M	1.0m	5J						5.0	1.0	40	1Δ	PE		
46#	B3†	150m	400M	1.0m	5J						5.0	1.0	60	1Δ	PE		
47#	B4†	150m	400M	1.0m	5J						5.0	1.0	90	1Δ	PE		
48#	BF207	150m	400M	1.0m	5J	40	30	4.0	25m	10u	10	4.0m	80	1	PL	T072	G
49#	BSV53P†	150m	400M	1.2m	5J						1.0	10m	40	1Δ	PE	u17c	E
50#	BSV54P†	150m	400M	1.2m	5J						1.0	10m	20	1Δ	PE	u17c	E
51	MT106	150m	400M	1.0m	5J	25		5.0		10u	1.0	10m	40	1	PE	u15	
52	MT107	150m	400M	1.0m	5J	40		5.0		25n	1.0	10m	30	1Δ	PE	u15	
53	NPC167	150m	400M	1.0m	5S	40	30	4.0	25m	0.1u	10	4.0m	57		PE	T072	J
54	NS6213	150m	400M	1.1m	5J	25	15	4.0	100m	50u	0.1	5.0m	20		PE	X16	
55#	25C921	150m	450M	1.2m	5J	25	12	4.0	10m	100n	3.0	500u	65	1	PE	u23a	C
56	2N708/TPT	150m	480M	833u	5J	40	15	5.0		0.2u	1.0	10m	30	1#Δ	PL	X31	
57#	25C1035	150m	500M	1.2m	5J	30	15	3.0	20m	1.0u	6.0	1.0m	70	1	PL	T0104	
58#	25C1036	150m	500M	1.2m	5J	30	15	3.0	20m	1.0u	6.0	1.0m	70	1	PL	T0104	
59	MT102	150m	500M	1.0m	5J	40	15	5.0		25n	1.0	10m	50	1	PEΔ	u15	
60#	25C658	150m	550M	1.2m	5J	25	12	4.0	20m	1.0u	6.0	1.0m	60	1#	PE	R126	
61#	25C660	150m	600M	1.4m	5J	25	12	3.0	20m	100n	10	3.0m	60	1#	PE	R107c	
62#	25C661	150m	600M	1.4m	5J	25	12	3.0	20m	100n	10	3.0m	60	1#	PE	R107c	
63#	25C707	150m	650M	1.4m	5J	20	20	3.0	20m	100u	10	2.0m	50	1	PE		
64	MT100	150m	750M	1.0m	5J	25	20	3.0		50u	1.0	10m	45	1	PEΔ	u15	
65	2N709/TPT	150m	800M	833u	5J	15	6.0	4.0		0.5u	5.0	10m	55	1	PE	X31	
66	2N2369/TPT	150m	800M	833u	5J	40	15	4.5	500m	40u	1.0	10m	80	1	PE	X31	
67	2N2594/TPT	150m	800M	833u	5J	40	15	4.5	500m	40u	1.0	10m	80	1	PE	X31	
68#	25C662	150m	800M	1.2m	5J	25	12	2.0	20m	50u	10	2.0m	40	1#	PE	R126	
69#	25C663	150m	900M	1.2m	5J	25	12	2.0	20m	50u	10	10m	40	1#	PE	R126	
70#	25C740	150m	900M	1.2m	5J	25	12	2.0	20m	50u	10	10m	40	1#	PE	R126	
71	2N2784/TPT	150m	1.0G	833u	5J	15	6.0	4.0	500m	5n	5.0	50m	120	1#	PE	X31	
72	A427	150m	1.0G	1.0m	5J	25	20	3.0	15m	100n	10	30m	23	1	PE	T072	G
73#	25C391	150m	1.2G	1.2m	5J	20	12	2.0	20m	1.0u	10	2.0m	70		PE	T072	
74#	25C804	150m	1.2G	2.0m	5J	15	13		20m	50u	3.0	1.0m	50	1	D		
75	2N3633/51	150m	1.3G	833u	5J	15	6.0	4.0	50m	5n	5.0	10m	150	1	PE	T051	
76	2N3633/TPT	150m	1.3G	833u	5J	15	6.0	4.0	50m	5n	5.0	10m	150	1	PE	X31	
77#	BFW78	150m	1.5G	1.0m	5J	30	14	4.0	80m	50u	5.0	50m	70	1	PE†	u34a	A
78	K5011	150m	1.5G	1.1m	5J	25	12	2.5		50n	1.0	30m	100	1	D	T050	C
79	K5010	150m	1.7G	1.1m	5J	25	12	2.5		50n	1.0	30m	100	1	D	T050	C
80#	V327	150m	3.2G	1.2m	5J	20	12	3.0	50m	50u	1.0	30m	90	1#	PE	u23a	C
81#	25C987	150m	4.5G	1.2m	5J	20	15	3.0	30m	50u	10	10m	30	1Δ	PE	X80	G
82#	BF214	160m	150M	1.1m	5J	30	30	4.0	30m		10	1.0m	150		PE	T072	J
83#	BF215	160m	150M	1.1m	5J	30	30	4.0	30m		10	1.0m	70		PE	T072	J
84#	BF226	160m	150M	1.1m	5J	30	30	4.0	30m		10	1.0m	70		PE	T072	J
85	A495	160m	220M	2.0m	5J	30	20	5.0	30m		10	1.0m	67	1			