

# 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   DERATE IN FREE AIR W/°C (Hz)	3   M A M P	4   ABS MAX RATINGS @ 25°C				5   I <sub>c</sub> (A)	6   I <sub>co</sub> @ MAX V <sub>cb</sub> (A)	7   TYPICAL 'h' PARAMETERS			8   C <sub>ob</sub> (F)	9   STRUC-TURE	10   DWG # Y200 s/a TO200 Ser.	11   # C O D E
					10   V <sub>cb</sub> (V)	11   V <sub>ceo</sub> (V)	12   V <sub>be</sub> (V)	13   I <sub>c</sub> (A)			14   V <sub>cb</sub> (V)	15   I <sub>hfe</sub> (A)	16   h <sub>fe</sub> (A)				
1#	ZSC1959	500m	300m	4.0m	\$J	35	30	5.0	400m	100m	1.0	100m	240	7.0p	E	TO92	B
2#	BC546	500m	300m	4.0m	\$J	80	65	6.0	100m	15n	5.0	2.0m	125	2.5p	PE	R189	A
3#	BC546A	500m	300m	4.0m	\$J	80	65	6.0	100m	15n	5.0	2.0m	220	2.5p	PE	R189a	F
4#	BC546AP	500m	300m	4.0m	\$J	80	65	6.0	100m	15n	5.0	2.0m	220	2.5p	PLT	S14b	F
5#	BC546B	500m	300m	4.0m	\$J	80	65	6.0	100m	15n	5.0	2.0m	330	2.5p	PE	R189a	F
6#	BC546BP	500m	300m	4.0m	\$J	80	65	6.0	100m	15n	5.0	2.0m	330	2.5p	PLT	S14b	F
7#	BC546VIP	500m	300m	4.0m	\$J	80	65	6.0	100m	15n	5.0	2.0m	110	2.5p	PLT	S14b	F
8#	BC547	500m	300m	4.0m	\$J	50	45	6.0	100m	15n	5.0	2.0m	125	2.5p	PE	R189	A
9#	BC547A	500m	300m	4.0m	\$J	50	45	6.0	100m	15n	5.0	2.0m	220	2.5p	PE	R189a	A
10#	BC547AP	500m	300m	4.0m	\$J	50	45	6.0	100m	15n	5.0	2.0m	220	2.5p	PLT	S14b	F
11#	BC547B	500m	300m	4.0m	\$J	50	45	6.0	100m	5.0u	5.0	2.0m	450	2.5p	PE	R189	A
12#	BC547BP	500m	300m	4.0m	\$J	50	45	6.0	100m	15n	5.0	2.0m	330	2.5p	PLT	S14b	F
13#	BC547C	500m	300m	4.0m	\$J	50	45	6.0	100m	15n	5.0	2.0m	600	2.5p	PE	R189a	A
14#	BC547VIP	500m	300m	4.0m	\$J	50	45	6.0	100m	15n	5.0	2.0m	110	2.5p	PLT	S14b	F
15#	BC548	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	125	2.5p	PE	R189	A
16#	BC548A	500m	300m	4.0m	\$J	30	20	5.0	100m	5.0u	5.0	2.0m	220	2.5p	PE	R189	A
17#	BC548AP	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	220	2.5p	PLT	S14b	F
18#	BC548B	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	330	2.5p	PE	R189a	A
19#	BC548BP	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	330	2.5p	PLT	S14b	F
20#	BC548C	500m	300m	4.0m	\$J	30	20	5.0	100m	5.0u	5.0	2.0m	800	2.5p	PE	R189	A
21#	BC548CP	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	600	2.5p	PLT	S14b	F
22#	BC548VIP	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	110	2.5p	PLT	S14b	F
23#	BC549B	500m	300m	4.0m	\$J	30	20	5.0	100m	5.0u	5.0	2.0m	450	2.5p	PE	R189	A
24#	BC549BP	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	330	2.5p	PLT	S14b	F
25#	BC549CP	500m	300m	4.0m	\$J	30	30	5.0	100m	15n	5.0	2.0m	600	2.5p	PLT	S14b	F
26#	BC550	500m	300m	4.0m	\$J	50	45	5.0	100m	15n	5.0	2.0m	240	2.5p	PE	R189	A
27#	BC550B	500m	300m	4.0m	\$J	50	45	5.0	100m	15n	5.0	2.0m	330	2.5p	PE	R189	A
28#	BC550BP	500m	300m	4.0m	\$J	50	45	5.0	100m	15n	5.0	2.0m	330	2.5p	PLT	S14b	F
29#	BC550CP	500m	300m	4.0m	\$J	50	45	5.0	100m	15n	5.0	2.0m	600	2.5p	PLT	S14b	F
30#	BT708	500m	300m	4.0m	\$J	40	15	5.0	25n	4.0	10m	30	8.0p	Δ	C14	AA	
31#	BT708T	500m	300m	2.8m	\$J	40	15	5.0	25n	4.0	10m	30	8.0p	Δ	TO18	A	
32#	BT2221A	500m	300m	2.8m	\$J	75	40	6.0	10n	10	10m	35	8.0p	PE	C14	AA	
33#	BT2221AT	500m	300m	2.8m	\$J	75	40	6.0	10n	10	10m	35	8.0p	PE	TO18	A	
34#	BT2222A	500m	300m	2.8m	\$J	75	40	6.0	10n	10	10m	75	8.0p	PE	C14	AA	
35#	BT2222AT	500m	300m	2.8m	\$J	75	40	6.0	10n	10	10m	75	8.0p	PE	TO18	A	
36#	MPS2222AKT	500m	300m	3.3m	\$A	75	40	6.0	800m	10n	10	1.0m	50	8.0p	PL	X167	A
37#	MPS2222ALT	500m	300m	3.3m	\$A	75	40	6.0	800m	10n	10	1.0m	50	8.0p	PL	X168	A
38#	MPS2222AMT	500m	300m	3.3m	\$A	75	40	6.0	800m	10n	10	1.0m	50	8.0p	PL	X169	A
39#	MPS2712Z	500m	300m	4.0m	\$J	18	17	5.0	30m	500p	4.5	2.5m	75	12p	DPE	TO92	A
40#	MPS6564Z	500m	300m	4.0m	\$J	45	5.0	200m	500p	5.0	10m	25	4.0p	DPE	TO92	A	
41#	MPSH19Δ	500m	300m	4.0m	\$J	30	25	3.0	100n	10	4.0m	45	650f	DPE	TO92	A	
42#	PE107B	500m	300m	4.0m	\$J	50	45	4.0	100m	200n	5.0	2.0m	3.0p	DPE	R222	C	
43#	PE254A	500m	300m	4.0m	\$J	30	30	5.0	200n	10	1.0m	200	750f	PE	R222	E	
44#	PE254B	500m	300m	4.0m	\$J	30	30	5.0	200n	10	1.0m	120	750f	PE	R222	E	
45#	PE254C	500m	300m	4.0m	\$J	30	30	5.0	200n	10	1.0m	60	750f	PE	R222	E	
46#	PN39471	500m	300m	4.0m	\$J	60	40	5.0	200m	10n	1.0	100u	60	2.0p	DPE	TO92	A
47#	PTC101	500m	300m	5.0m	\$J	70	35	6.0	100m	50n	1.0	150m	150	9p	DPE	TO105	A
48#	SE8012	500m	300m	5.0m	\$J	100	60	6.0	500m	50u	1.0	100m	40	9p	DPE	TO105	A
49#	SK3046-RT	500m	300m	5.0m	\$J	60	30	2.0	250m	10n	1.0	150m	50	3.5p	DPE	R216k	A
50#	TBC546	500m	300m	4.0m	\$J	80	65	6.0	100m	100n	5.0	2.0m	800	3.5p	E	TO92	A
51#	TBC547	500m	300m	4.0m	\$J	50	45	6.0	100m	100n	5.0	2.0m	800	3.5p	E	TO92	A
52#	TBC548	500m	300m	4.0m	\$J	30	30	5.0	100m	100n	5.0	2.0m	800	3.5p	E	TO92	A
53#	TBC549	500m	300m	4.0m	\$J	30	30	5.0	100m	100n	5.0	2.0m	800	3.5p	E	TO92	A
54#	TBC550	500m	300m	4.0m	\$J	50	45	5.0	100m	100n	5.0	2.0m	800	3.5p	E	TO92	A
55#	TP2222A	500m	300m	3.3m	\$J	75	40	6.0	500m	10n	5.0	150m	50	8.0p	PL	TO92	A
56#	UPI2222B	500m	300m	3.3m	#J	60	40	6.0	800m	14m	10	1.0m	50	4.0p	PL	TO18	A
57#	ZTX3904T	500m	300m	3.3m	\$J	60	40	6.0	200m	50n	10	1.0m	100	4.0p	PL	B58	A
58#	2SC285	500m	320m	4.0m	\$J	50	40	5.0	200m	10u	10	10m	60	3.5p	PE	TO5	A
59#	2SC285A	500m	320m	4.0m	\$J	50	40	5.0	200m	10u	10	10m	60	3.5p	PE	TO5	A
60#	2N6010T	500m	330m	4.0m	\$J	50	40	5.0	800m	10n	10	1.0m	65	10p	PL	R203a	A
61#	2N6014T	500m	330m	4.0m	\$J	70	60	5.0	800m	10n	10	1.0m	90u	12k	PL	R203a	A
62#	2N6000T	500m	350m	4.0m	#J	35	25	5.0	500m	10n	10	1.0m	70	6.0p	PL	R203a	A
63#	2SC521	500m	350m	4.0m	\$J	40	40	5.0	100m	30n	6.0	1.0m	50	4.0p	PL	TO5	A
64#	TPS108	500m	350m	4.0m	\$J	40	30	4.0	50n	10	4.0m	25	700f	PL	TO92	A	
65#	PD201	500m	375m	4.0m	\$J	20	20	3.0	30m	200n	5.0	4.0m	20	700f	PL	TO92	A
66#	PD201B	500m	375m	4.0m	\$J	20	20	3.0	30m	200n	5.0	4.0m	220	700f	PL	TO92	A
67#	PD201C	500m	375m	4.0m	\$J	20	20	3.0	30m	200n	5.0	4.0m	130	700f	PL	TO92	A
68#	PD201D	500m	375m	4.0m	\$J	20	20	3.0	30m	200n	5.0	4.0m	70	700f	PL	TO92	A
69#	MPS6530K	500m	390m	3.3m	\$A	60	40	5.0	600m	50n	1.0	10m	75	3.5p	PL	X167	A
70#	MPS6530L	500m	390m	3.3m	\$A	60	40	5.0	600m	50n	1.0	10m	75	3.5p	PL	X168	A
71#	MPS6530M	500m	390m	3.3m	\$A	60	40	5.0	600m	50n	1.0	10m	75	3.5p	PL	X169	A
72#	MPS6531K	500m	390m	3.3m	\$A	60	40	5.0	600m	50n	1.0	10m	120	3.5p	PL	X167	A
73#	MPS6531L	500m	390m	3.3m	\$A	60	40	5.0	600m	50n	1.0	10m	120	3.5p	PL	X168	A
74#	MPS6531M	500m	390m	3.3m	\$A	60	40	5.0	600m	50n	1.0	10m	120	3.5p	PL	X169	A
75#	MPS6532K	500m	390m	3.3m	\$A	50	30	5.0	600m	100n	1.0	100m	30	3.5p	PL	X167	A
76#	MPS6532L	500m	390m	3.3m	\$A	50	30	5.0	600m	100n	1.0	100m	30	3.5p	PL	X168	A
77#	MPS6532M	500m	390m	3.3m	\$A	50	30	5.0	600m	100n	1.0	100m	30	3.5p	PL	X169	A
78#	2N2220A	500m	400m	3.3m	\$J	75	40	6.0	100m	01u	10	150m	40	4.0p	PL	TO18	A
79#	2SC441	500m	400m	2.8m	\$J	25	15	5.0	100m	10n	10	100u	50	3.5p	PL	TO5	A
80#	BF196P	500m	400m	3.3m	\$A	40	30	4.0	25m	10	5.0	15m	10	200f	PLT	B58	C
81#	BF198	500m	400m	4.0m	\$J	40	30	4									