

# 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)	DERATE IN FREE AIR W/°C (Hz)	M E A M P	ABS MAX RATINGS @ 25°C				MAX. Icbo @ MAX Vcb (A)	TYPICAL 'h' PARAMETERS			COMMON EMITTER			Cob (F)	STRUC-TURE	DWG #200 s/a TO200 Ser.	L E O D E
					BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)		Vcb (V)	le (A)	hfe	hoe (mhos)	hie (Ω)	hre (X.0001)				
					h <sub>FE</sub>	h <sub>FE</sub>	h <sub>FE</sub>	h <sub>FE</sub>		h <sub>FE</sub>	h <sub>FE</sub>	h <sub>FE</sub>	h <sub>FE</sub>	h <sub>FE</sub>	h <sub>FE</sub>				
1#	BFV27T	150m	500mΔ	1.2m	Δ	15	6.0	4.0	100m	1.00	3.0m	15	1#	Δ	3p	PE	S5a	P	
2#	BFV28T	150m	500mΔ	1.7m	Δ	15	6.0	4.0	50m	1.0u	1.0m	15	1#	Δ	3p	PE	S5a	P	
3#	BFV80	150m	500mΔ	1.2m	Δ	25	12	3.0	50m	5.0u	3.0m	20	1#	Δ	1.7p	PE	S5a	P	
4#	PL4022T	150m	500mΔ	1.0m	Δ	40	15	4.5	200m	4.0u	1.0m	40	1#	Δ	4p	PE	S6	C	
5#	PL4023T	150m	500mΔ	1.0m	Δ	40	15	4.5	200m	4.0u	1.0m	20	1#	Δ	4p	PE	S6	C	
6#	2SC606	150m	530m		Δ	30	30	4.0	20m	2.0u	100	60	1#	Δ	1p	PL	W3a	C	
7#	2SC2265H	150m	550m	1.0m	Δ	35	35	4.0	20m	100n	100	2.0m	150	1#	Δ	600f	PE	T072	G
8#	BF200	150m	550m	1.0m	Δ	30	20	3.0	20m	100	100	3.0m	16	Δ	90p	PL	T072	G	
9#	BF599	150m	550m	1.4m	Δ	25	25	4.0	20m	100	100	3.0m	16	Δ	35p	PL	T072	G	
10#	2SC668SP	150m	600m	1.5m	Δ	25	20	3.0	30m	1.0u	6.0	1.0m	560	1#	Δ	550ft	PL	T072	G
11#	2SC762	150m	600m	1.0m	Δ	30	20	3.0	100u#	2.0m	2.0m	13	1#	Δ	280ft	PL	T072	G	
12#	2SC997	150m	600m		Δ	40	30	3.0	25m	25n	100	4.0m	70	1#	Δ	1.5p	PL	T072	G
13#	2SC1778	150m	600mΔ	1.5m	Δ	25	20	3.0	15m	100u#	100	3.0m	50	1#	Δ	500ft	PL	T092	E
14#	2SC2813	150m	600m		Δ	25	20	3.0	30m	0.1u	60	1.0m	320	1#	Δ	.75p	PE	S27	E
15#	2SC2840	150m	600m		Δ	25	20	3.0	30m	0.1u	60	1.0m	100	1#	Δ	0.5p	PE	X192	E
16#	BF181	150m	600m		Δ	20	20	4.0	20m	100	100	2.0m	20	1#	Δ	900f	PL	T072	G
17#	BF182	150m	600m		Δ	20	20	4.0	20m	100	100	2.0m	10	1#	Δ	1.0p	PL	T072	G
18#	BF251	150m	600m	1.0m	Δ	30	30	4.0	50n	100	100	4.0m	30	1#	Δ	DPL	T072	G	
19#	BF270	150m	600m	1.0m	Δ	40	40	4.0	20m	100	100	4.0m	50	1#	Δ	PL	T072	J	
20#	BFV59	150m	600mΔ	1.3m	Δ	25	13	3.0	50m	0.5u	100	4.0m	20	Δ	2.5p	PE	S5a	J	
21#	BFW63	150m	600m	1.0m	Δ	40	30	4.0	50m	5.0u	100	4.0m	70	1#	Δ	DPL	T072	J	
22#	PL4112	150m	600mΔ	1.0m	Δ	30	15	3.0	200m	1.0n	1.0	3.0m	20	1#	Δ	2.0p	PE	S6	C
23#	SF173	150m	600m	1.2m	Δ	40	25	4.0	25m	5.0n	100	7.0m	38	1#	Δ	400ft	DPE	X149	B
24#	SF197	150m	600m	1.2m	Δ	40	25	4.0	25m	5.0n	100	7.0m	38	1#	Δ	300ft	DPE	X149	C
25#	2SC707	150m	650m		Δ	20	20	3.0	100u	100	100	2.0m	50	1#	Δ	4.0p	PE	T072	G
26#	2SC947	150m	650m	1.0m	Δ	25	20	3.0	15m	100u#	10	2.0m	20	1#	Δ	330ft	PL	T072	G
27#	2SC1047	150m	650m	1.5m	Δ	30	20	3.0	15m	10u	6.0	1.0m	40	1#	Δ	800ft	PE	T092	B
28#	2SC2860	150m	650m	1.5m	Δ	30	20	3.0	15m	50n	6.0	1.0m	40	1#	Δ	0.8p	PE	S9	D
29#	A482	150m	650m	1.0m	Δ	25	20	3.0	15m	10	10	2.0m	20	1#	Δ	1.1p	PE	T072	G
30#	A484	150m	650m	1.0m	Δ	30	20	3.0	20m	10	10	3.0m	30	1#	Δ	.28p	PL	T072	G
31#	BF200	150m	650m	1.0m	Δ	30	20	1.0	20m	50n	100	3.0m	15	1#	Δ	280ft	AN	T072	G
32#	BFW64	150m	650m	1.0m	Δ	40	30	4.0	50m	5.0u	100	4.0m	70	1#	Δ	.2p	DPL	T072	J
33#	2SC761	150m	675m	1.0m	Δ	30	20	3.0	20m	100u#	10	2.0m	13	1#	Δ	280ft	PL	T072	G
34#	BF180	150m	675m	1.0m	Δ	30	20	3.0	20m	100	100	2.0m	40	1#	Δ	280ft	PE	T072	G
35#	BF273	150m	750m	1.4m	Δ	40	35	4.0	50m	7.0	7.0	10m	80	1#	Δ	400ft	PE	T0106	C
36#	BF274	150m	750m	1.4m	Δ	40	35	4.0	50m	7.0	7.0	10m	40	1#	Δ	400ft	PE	T0106	C
37#	2SC618	150m	800m	1.2m	Δ	25	13	4.0	25m	100n	6.0	2.0m	80	1#	Δ	60	PE	T072	G
38#	2SC618A	150m	800m	1.2m	Δ	25	13	4.0	25m	100n	6.0	2.0m	80	1#	Δ	60	PE	T072	G
39#	2SC629	150m	800m		Δ	18	13	3.0	30m	20u	3.0	1.0m	30	1#	Δ	1.3p	D	X153	G
40#	2SC948	150m	800m	1.0m	Δ	25	20	3.0	15m	100u#	10	3.0m	24	1#	Δ	330ft	PL	T072	G
41#	BF183	150m	800m		Δ	40	40	4.0	20m	100	100	3.0m	10	1#	Δ	1.0p	PL	T072	G
42#	BF287	150m	800m	1.0m	Δ	40	40	4.0	20m	50n	100	2.0m	40	1#	Δ	DPE	T072	G	
43#	2SC1117	150m	850m	1.2m	Δ	20	20	3.0	20m	1.0u	100	2.0m	320	1#	Δ	.45p	PL	T072	G
44#	2SC1117H	150m	850m	1.2m	Δ	20	20	3.0	20m	1.0u	100	2.0m	320	1#	Δ	.45p	PL	T072	G
45#	2SC1547	150m	900m	1.2m	Δ	30	20	3.0	20m	1.0u	100	3.0m	20	1#	Δ	800f	PL	T072	G
46#	BF290	150m	900m	1.0m	Δ	40	40	4.0	20m	50n	100	3.0m	40	1#	Δ	DPE	T072	G	
47#	2SC390	150m	1.0G	1.2m	Δ	30	20	3.0	20m	100n	100	2.0m	40	1#	Δ	1.0p	PE	T072	G
48#	2SC392	150m	1.0G		Δ	30	20	3.0	20m	500n	100	2.0m	80	1#	Δ	1.5p	PL	T072	G
49#	2SC787	150m	1.0G	1.2m	Δ	25	20	3.0	20m	25n	100	2.0m	25	1#	Δ	300ft	PL	T072	G
50#	2SC2732	150m	1.0G	1.5m	Δ	30	15	4	20m	100	100	3.0m	30	1#	Δ	0.8p	E	T0236	C
51#	2SC2733	150m	1.0G	1.5m	Δ	30	20	3	50m	100	100	10m	60	1#	Δ	.65p	E	T0236	C
52#	2SC2735	150m	1.0G	1.5m	Δ	30	20	3	50m	100	100	10m	40	1#	Δ	1.5p	E	T0236	C
53#	SK3019-RT	150m	1.0G		Δ	20	20	3.0	20m	100	100	2.0m	130	1#	Δ	700f	PE	T072	C
54#	2SC287A	150m	1.1G	1.2m	Δ	35	15	4.0	20m	1.0u	100	5.0m	80	1#	Δ	700f	PE	W3a	C
55#	2SC1780	150m	1.2GΔ	1.5m	Δ	25	18	3.0	15m	100u#	100	2.0m	50	1#	Δ	1.2p	PE	S9	B
56#	2SC1790	150m	1.2GΔ	1.0m	Δ	25	18	3.0	15m	100u	100	2.0m	50	1#	Δ	800ft	PE	T072	J
57#	BF308	150m	1.4G		Δ	40	35	4.0	50m	500u	7.0	1.0m	60	1#	Δ	PE	T072	J	
58#	BF309	150m	1.4G		Δ	40	35	4.0	50m	500u	7.0	1.0m	105	1#	Δ	PE	T072	J	
59#	CST3571	150m	1.6G	1.2m	Δ	25	15	3.0	50m	10u	6.0	5.0m	20	1#	Δ	300f	PL	X156g	A
60#	2N5650	150m	2.0GΔ	1.2m	Δ	20	15	3.0	30m	50n	100	3.0m	30	1#	Δ	700f	PE	T072	G
61#	2N5651	150m	2.0GΔ	1.2m	Δ	20	15	3.0	30m	50n	100	3.0m	30	1#	Δ	700f	PE	T072	G
62#	2N5652	150m	2.0GΔ	1.2m	Δ	20	15	3.0	30m	50n	100	3.0m	30	1#	Δ	700f	PE	T072	G
63#	2SC2328	150m	2.2G	1.5m	Δ	20	7.0	2.0	30m	1.0u	1.0	1.0m	50	1#	Δ	800ft	PE	W110a	C
64#	2SC2736	150m	2.2G	1.5m	Δ	30	20	3	50m	100	100	5.0m	200	1#	Δ	1.0p	E	T0236	C
65#	2SC2734	150m	3.5G	1.5m	Δ	20	11	3	50m	100	100	10m	200	1#	Δ	1.5p	E	T0236	C
66#	2SC1742	150m	5.5GΔ	1.0m	Δ	20	10	2.0	30m	100n	5.0	10m	120	1#	Δ	800f	PE	W69	D
67#	2SC2115	150m	6.5G	1.7m	Δ	20	10	2.0	30m	1.0u	5.0	10m	120	1#	Δ	800m	PE	W110	D
68#	BF214#	165m	150mΔ		Δ	30	30	4.0	30	100	100	1.0m	330	1#	Δ	0.7p	PE	T072	J
69#	BF215#	165m	150mΔ		Δ	30	30	4.0	30	100	100	1.0m	165	1#	Δ	0.7p	PE	T092	J
70#	BF226#	165m	150mΔ		Δ	30	30	4.0	50	100	100	1.0m	185	1#	Δ	0.7p	PE	T092	J
71#	2N4433	165m	200m	1.1m	Δ	50	30	5.0	30m	0.1u	100	1.0m	50	1#	Δ	1.5p	PE	T072	J
72#	BF214A	165m	250mΔ		Δ	30	30	4.0	30	100	100	1.0m	150	1#	Δ	0.7p	PE	T072	J
73#	BF214B	165m	250mΔ		Δ	30	30	4.0	30	100	100	1.0m	250	1#	Δ	0.7p	PE	T092	J
74#	2N778	170m		1.2m	Δ	20	20	2.0	100m	100	100	2.0m	50	1#	Δ	1.5p	D	T018	A
75#	2N1272	170m		769u	Δ	20	20	2.0	100m	70u	100	2.0m	50	1#	Δ	1.5p	D	T09	A
76#	2N4259	175m		1.1m	Δ	40	30												