

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)	3 DERATE IN FREE AIR W/°C	M A P	T ABS MAX RATINGS @ 25°C				MAX. Icbo @ Vcb Max (A)	TYPICAL 'h' PARAMETERS			COMMON EMITTER			Cob (F)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L E O A D E
						VbVco (V)	VbVce (V)	VbVbo (V)	hfe		hoe (mhos)	hie (Ω)	hre (X.0001)							
1#	BF305	800m	100M	4.5m	\$J	180	150	5.0	50m	100n	100	15m	30 Δ				PL	T039	A	
2#	BFR19	800m	100M	2.8m	\$S	35	75	7.0		100n	1.0	500m	30 Δ	8.5u	2.2k	2.4	PE	T039	A	
3#	BFT39	800m	100M	4.5m	\$A	90	80	5.0	1.0	100n	100	100m	250 Δ				PE	T039	A	
4#	BFT40	800m	100M	4.5m	\$A	70	60	5.0	1.0	100n	100	100m	250 Δ				PE	T039	A	
5#	BFT41	800m	100M	4.5m	\$A	60	50	5.0	1.0	100n	100	100m	300 Δ				PE	T039	A	
6#	BSX22	800m	100M	5.3m	\$J	40	32	5.0	1.5	2.0	500m	35 Δ				PE	T05	A		
7#	BSY51	800m	100M	4.5m	\$J	60	25	5.0	500m	100n	100	150m	40 Δ	8.0u	1.5k	800m	7.5p	PE	T039	A
8#	BSY51	800m	100M	4.5m	\$J	60	25	5.0	500m	100n	5.0	1.0m	30 Δ	13u	4.5k	3.0	10p	AN	T039	A
9#	BSY53	800m	100M	4.5m	\$J	75	30	7.0	750m	100n	100	150m	40 Δ	7.0u	1.5k	800m	6.5p	PE	T039	A
10#	BSY53	800m	100M	4.5m	\$J	70	30	7.0	750m	100n	5.0	1.0m	30 Δ	10u	4.5k	3.0	10p	AN	T039	A
11#	BSY55	800m	100M	4.5m	\$J	120	80	7.0	500m	100n	100	150m	40 Δ				PE	T039	A	
12#	BSY87	800m	100M	4.5m	\$J	100	60	7.0	500m	100n	100	150m	40 Δ				PE	T039	A	
13#	BSY88	800m	100M	4.5m	\$J	100	60	7.0	500m	100n	100	150m	100 Δ				PE	T039	A	
14#	BSY90	800m	100M	4.5m	\$J	60	25	5.0	500m	100n	100	150m	250 Δ				PE	T039	A	
15#	BU125	800m	100M	4.5m	\$S	130	60	5.0	5.0	10u	2.0	5.0	70 Δ				PE	T039	A	
16#	HSE146-RT	800m	100M	6.4m	\$J	70	50	5.0		200n	5.0	150m	50 Δ				PE	T05	A	
17#	HSE171-RT	800m	100M	6.4m	\$J	60	40	4.0		1.0u	5.0	150m	30 Δ				PE	T05	A	
18#	SL101	800m	100M	6.4m	\$J	40	30	5.0	500m	1.0u	5.0	150m	40 Δ				PE	T039	A	
19#	SL102	800m	100M	6.4m	\$J	30	30	3.5	1.0	1.0u	5.0	500m	40 Δ				PE	R110	A	
20#	ST8573	800m	100M	4.5m	\$J	60	30	5.0		50n	100	150m	20 Δ				PE	T05	A	
21#	ST8574	800m	100M	4.5m	\$J	60	30	5.0		50n	100	150m	100 Δ				PE	T05	A	
22#	2SC2721	800m	110M	6.4m	\$J				700m	100n	1.0	100m	400 Δ*				PE	S26	B	
23#	2SD571	800m	110M	6.4m	\$J	60	50	5.0	700m	100n	1.0	100m	200 Δ				PE	T05	A	
24#	BF257	800m	110M		\$J	160	160	5.0	100m	50n	100	30m	25 Δ				PE	T05	A	
25#	BF258	800m	110M		\$J	250	250	5.0	100m	50n	100	30m	25 Δ				PE	T05	A	
26#	BF259	800m	110M		\$J	300	300	5.0	100m	50n	100	30m	25 Δ				PE	T05	A	
27#	2N4383	800m	120M	4.7m	\$S	40	30	5.0	800m	10n	5.0	1.0m	1.0k	200n	32	8.0p	PE	T05	A	
28#	2N4385	800m	120M	4.7m	\$S	40	30	5.0	800m	10n	5.0	1.0m	1.0k	200n	32	8.0p	PE	T05	A	
29#	2SC788	800m	120M		\$J	250	150	5.0	50m	1u	5.0	10m	100 Δ				PL	T05	A	
30#	2SC2229	800m	120M	6.4m	\$J	200	150	5.0	50m	100n	5.0	10m	70 Δ				PE	R195a	B	
31#	BF177	800m	120M	5.3m	\$S	100	60	5.0	100m		150	20m	20 Δ				PE	T039	A	
32#	BF178	800m	120M	5.3m	\$S	160	115	5.0	100m		150	20m	20 Δ				PE	T039	A	
33#	BF179	800m	120M	5.3m	\$S	250	115	5.0	100m		150	20m	20 Δ				PE	T039	A	
34#	BFW45	800m	120M	4.5m	\$J	165	130	5.0	50m	10u	2.0	50m	20 Δ				PL	T039	A	
35#	C066	800m	120M		\$J		20		1.5	1.0	1.0	100m	50 Δ				PE	T092	A	
36#	C166P	800m	120M		\$J		25		2.0	1.0	1.0	100m	50 Δ				PE	T092	A	
37#	2SC1735	800m	130M	7.3m	\$J	100	100	5.0	500m	1.0u	100	130 Δ					PE	T092	B	
38#	2SD471	800m	130M	6.4m	\$J	30	25	5.0	1.0	100n	1.0	100m	200 Δ				PE	T092	B	
39#	BC635	800m	130M	6.0m	\$J	45	45	5.0	1.0	100n	2.0	150m	40 Δ				PE	T092	B	
40#	BC635	800m	130M	6.4m	\$J	45	45	5.0	1.0	10u	2.0	150m	40 Δ				PE	R221a	B	
41#	BC637	800m	130M	6.0m	\$J	60	60	5.0	1.0	100n	2.0	150m	40 Δ				PE	T092	B	
42#	BC637	800m	130M	6.4m	\$J	60	60	5.0	1.0	10u	2.0	150m	40 Δ				PE	R221a	B	
43#	BC639	800m	130M	6.0m	\$J	100	80	5.0	1.0	100n	2.0	150m	40 Δ				PE	T092	B	
44#	BC639	800m	130M	6.4m	\$J	100	80	5.0	1.0	10u	2.0	150m	40 Δ				PE	R221a	B	
45#	BFR86	800m	130M	6.4m	\$A	120	120	5.0	200m	50n	100	30m	20 Δ*				PE	T092	B	
46#	BFR86T05	800m	130M	6.4m	\$A	120	120	5.0	200m	50n	100	30m	20 Δ*				PE	R188	B	
47#	BFR87	800m	130M	6.4m	\$A	160	160	5.0	200m	50n	100	30m	20 Δ*				PE	T092	B	
48#	BFR87T05	800m	130M	6.4m	\$A	160	160	5.0	200m	50n	100	30m	20 Δ*				PE	R188	B	
49#	BFR88	800m	130M	6.4m	\$A	250	250	5.0	200m	50n	100	30m	20 Δ*				PE	T092	B	
50#	BFR88T05	800m	130M	6.4m	\$A	250	250	5.0	200m	50n	100	30m	20 Δ*				PE	R188	B	
51#	BFR89	800m	130M	6.4m	\$A	300	300	5.0	200m	50n	100	30m	20 Δ*				PE	T092	B	
52#	BFR89T05	800m	130M	6.4m	\$A	300	300	5.0	200m	50n	100	30m	20 Δ*				PE	R188	B	
53#	BSW66A1	800m	130M	4.5m	\$J	100	100	6.0	1.0	100u	5.0	100m	90 Δ				PE	T039	A	
54#	BSW67A1	800m	130M	4.5m	\$J	120	120	6.0	1.0	100u	5.0	100m	90 Δ				PE	T039	A	
55#	BSW68A1	800m	130M	4.5m	\$J	150	150	6.0	1.0	100u	5.0	100m	90 Δ				PE	T039	A	
56#	BSY52	800m	130M	4.5m	\$J	60	25	5.0	500m	100n	100	150m	100 Δ	9.0u	3.0k	800m	7.5p	PE	T039	A
57#	ESM635	800m	130M	6.0m	\$J	45	45	5.0	1.0	100n	2.0	500m	25 Δ				PE	T05	A	
58#	ESM637	800m	130M	6.0m	\$J	60	60	5.0	1.0	100n	2.0	500m	25 Δ				PE	T05	A	
59#	ESM639	800m	130M	6.0m	\$J	100	80	5.0	1.0	100n	2.0	500m	25 Δ				PE	T05	A	
60#	MA8001	800m	130M	4.7m	\$J	40	30	5.0	800m	50n	100	150m	30 Δ*	15ub	4.9k	4.2	12p	PE	T05	A
61#	MA8002	800m	130M	4.7m	\$J	120	80	7.0	800m	10n	100	150m	40 Δ*	500n	30	1.5	10p	PE	T05	A
62#	MA8003	800m	130M	4.7m	\$J	80	60	7.0	800m	10n	100	150m	100 Δ*	500n	30	1.5	10p	PE	T05	A
63#	2N1506	800m	140M	5.3m	\$J	60	20	4.0	500m	10u	280	100m	10 Δ*				PE	T05	A	
64#	2N1506A	800m	140M	5.3m	\$J	80	50	5.0	500m	50n	280	100m	10 Δ				PE	T05	A	
65#	2N1837A1	800m	140M	4.6m	\$J	80	30	8.0	500m	50n	100	150m	40 Δ				PE	T05	A	
66#	2N1837B1	800m	140M	4.5m	\$J	80	30	8.0	500m	10n	100	150m	40 Δ*				PE	T05	A	
67#	BSY54	800m	145M	4.5m	\$J	75	30	7.0	750m	10n	100	150m	100 Δ	8.0u	3.0k	800m	6.5p	PE	T039	A
68#	BSY56	800m	145M	4.5m	\$J	120	80	7.0	500m	10n	100	150m	100 Δ	6.0u	3.0k	600m	6.0p	PE	T039	A
69#	2N2863	800m	150M	4.5m	\$S	60	25	5.0		50u	150	10m	20 Δ				PE	T05	A	
70#	2N2864	800m	150M	4.5m	\$S	60	25	5.0		50u	150	10m	12 Δ				PE	T05	A	
71#	2N2939	800m	150M	4.33m	\$S	75	60	7.0	1.0	25n	100	150m	240 Δ				PE	T05	A	
72#	2N2940	800m	150M	4.33m	\$S	120	80	7.0	1.0	25n	100	150m	240 Δ				PE	T05	A	
73#	2N2941	800m	150M	4.33m	\$S	150	100	7.0	1.0	25n	100	150m	60 Δ*				PE	T05	A	
74#	2N3554A1	800m	150M	4.5m	\$S	60	30	5.0	1.2	5u	1.0	750m	25 Δ				PE	T05	A	
75#	2N4943	800m	150M	4.5m	\$S	120	80	7.0	1.0	0.1u	100	150m	100 Δ				PE	T05	A	
76#	2SC59	800m	150M	5.3m	\$J	120	60	6.0	300m	50u	100	150m	35 Δ*				PE	T05	A	
77#	2SC108A1	800m	150M	5.3m	\$J	90	70	5.0	800m	500n	2.0	200m	40 Δ*				PE	T039	A	
78#	2SC109A1	800m	150M	5.3m	\$J	70	50	5.0	800m	500n	2.0	200m	40 Δ*							