

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 f (Hz)	DERATE IN FREE AIR W/C	TEMP. RANGE M A X P	ABS MAX RATINGS @ 25°C			MAX. I _{cb} @ MAX V _{cb} (A)	TYPICAL 'h' PARAMETERS			COMMON EMITTER			Cob (F)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C O D E		
						V _{bcbo} (V)	V _{ceo} (V)	V _{cebo} (V)		I _c (A)	V _{cb} (V)	I _e (A)	h _{fe}	hoe (mhos)	hie (Ω)					hre (X.0001)	
1	HSE125-RT	800m	30MΔ	6.4m	Δ	80	40	5.0	1.0	500n	100	150m	30	15	500n	30	5.0	2.5	35p	T05	A
2	2N696A†	800m	40MΔ	4.5m	Δ	60	35	5.0	1.0	100n	5.0	1.0m	15	15	500n	30	5.0	2.5	15p	T05	A
3	2N698	800m	40MΔ	4.5m	Δ	120	60	7.0	1.0	5.0m	5.0	1.0m	15	15	500n	30	5.0	2.5	15p	T05	A
4	2N1252A†	800m	40MΔ	4.5m	Δ	60	30	5.0	1.0	1.0u	1.0	150m	15	15	500n	30	5.0	2.5	45p	T05	A
5	2N1975	800m	40MΔ	4.5m	Δ	100	60	5.0	1.0	25n	5.0	1.0m	18	18	25u	600	30	2.5	15p	T05	A
6	2N2008	800m	40MΔ	4.5m	Δ	175	110	8.0	1.0	500m	5.0	1.0m	20	20	500n	30	2.5	2.5	15p	T05	A
7	2N3114	800m	40MΔ	4.5m	Δ	150	150	5.0	200m	0.1u	5.0	1.0m	25	25					9p	T05	A
8	2N3526	800m	40MΔ	4.5m	Δ	130	120	5.0	200m	1.0u	5.0	1.0m	25	25					12p	T05	A
9	2N3712	800m	40MΔ	5.3m	Δ	150	150	5.0	200m	1.0u	5.0	30m	25	25					9p	T05	A
10	2N3712S	800m	40MΔ	5.3m	Δ	150	150	5.0	200m	100n	1.0	30m	25	25					9.0p	T039	A
11	2N3923	800m	40MΔ	4.5m	Δ	150	150	6.0	100m	0.1u	1.0	25m	20	20					3.5p	T05	A
12	BC119	800m	40MΔ	4.5m	Δ	60	30	5.0		0.5u	1.0	150m	40	40					25p	PE	T05
13	BC120	800m	40MΔ	4.5m	Δ	60	30	5.0		0.5u	1.0	150m	20	20					25p	DPE	T05
14	BC138	800m	40MΔ	4.5m	Δ	60	30	5.0		0.5u	1.0	10m	100	100					12p	DPE	T05
15	BC142	800m	40MΔ	4.5m	Δ	80	60	5.0		0.5u	2.0	20m	20	20					25p	PE	T05
16	BC211	800m	40MΔ	5.3m	Δ	80	40	7.0	1	1n	1.0	10m	70	70					6.0p	PL	T039
17	BC394	800m	40MΔ	1.0m	Δ	160	150	6.0	100n	100n	5.0	10m	50	50					6.0p	PL	T018
18	BF174	800m	40MΔ	4.5m	Δ	150	150	5.0	100m	100n	5.0	10m	30	30					3.5p	PL	T039
19	BF294	800m	40MΔ	4.5m	Δ	150	150	5.0	100m	100n	5.0	10m	30	30					3.5p	PL	T039
20	BFX98	800m	40MΔ	4.5m	Δ	150	150	5.0	100m	0.1u	1.0	25m	30	30					3p	PL	T05
21	BFY33	800m	40MΔ	4.5m	Δ	24	24	5.0	500m	500m	5.0	10m	40	40					20p	PL	T039
22	BFY57	800m	40MΔ	4.5m	Δ	125	125	5.0	100m	100n	5.0	1.0m	50	50					6.0p	DPL	T05
23	HSE147-RT	800m	40MΔ	6.4m	Δ	70	60	5.0		100u	1.0	150m	150	150					8.0p	DM	T05
24	MST10S	800m	40M	5.3m	Δ	100	100	5.0	200m	200u	1.0	15m	30	30					8.0p	DM	T05
25	MST20S	800m	40M	5.3m	Δ	200	200	5.0	200m	2.0u	1.0	15m	30	30					8.0p	DM	T05
26	MST30S	800m	40M	5.3m	Δ	300	300	5.0	200m	2.0u	1.0	15m	30	30					8.0p	DM	T05
27	MST40S	800m	40M	5.3m	Δ	400	400	5.0	100m	2.0u	1.0	15m	30	30					8.0p	DM	T05
28	MST50S	800m	40M	5.3m	Δ	500	500	5.0	100m	4.0u	1.0	10m	30	30					8.0p	DM	T05
29	MST60S	800m	40M	5.3m	Δ	600	600	5.0	100m	4.0u	1.0	10m	30	30					8.0p	DM	T05
30	MST70S	800m	40M	5.3m	Δ	700	700	5.0	100m	4.0u	1.0	10m	30	30					8.0p	DM	T05
31	2N697A†	800m	50MΔ	4.5m	Δ	60	35	5.0	1.0	100n	5.0	1.0m	25	25					500n	Δ	T05
32	2N699A	800m	50MΔ	5.2m	Δ	120	80	5.0	1.0	500n	5.0	1.0m	30	30					500n	Δ	T05
33	2N1253A†	800m	50MΔ	4.5m	Δ	60	30	5.0	1.0	1.0u	1.0	150m	30	30					45p	Δ	T05
34	2N1889	800m	50MΔ	4.5m	Δ	100	60	7.0	500m	10n	5.0	1.0m	30	30					500n	Δ	T05
35	2N1893	800m	50MΔ	4.5m	Δ	120	80	7.0	500m	10n	5.0	1.0m	30	30					500n	Δ	T05
36	2N1974	800m	50MΔ	4.5m	Δ	100	60	7.0	500m	25n	5.0	1.0m	36	36					50u	1.0k	T05
37	2N2049	800m	50MΔ	4.5m	Δ	75	50	7.0	500m	10n	5.0	1.0m	75	75					500n	Δ	T05
38	2N2192†	800m	50MΔ	4.5m	Δ	60	40	5.0	1	0.1u	1.0	10m	75	75					20p	Δ	T05
39	2N2192A†	800m	50MΔ	4.5m	Δ	60	40	5.0	1.0	10n	1.0	10m	75	75					20p	Δ	T05
40	2N2192B†	800m	50MΔ	4.5m	Δ	60	40	5.0	1	0.1u	1.0	10m	75	75					20p	Δ	T039
41	2N2193†	800m	50MΔ	4.6m	Δ	80	50	8.0	1.0	10n	1.0	10m	30	30					20p	Δ	T039
42	2N2193A†	800m	50MΔ	4.6m	Δ	80	50	8.0	1.0	10n	1.0	10m	30	30					20p	Δ	T039
43	2N2193B†	800m	50MΔ	4.5m	Δ	80	50	8.0	1	0.1u	1.0	10m	30	30					20p	Δ	T05
44	2N2194†	800m	50MΔ	4.5m	Δ	60	40	5.0	1	0.1u	1.0	10m	15	15					20p	Δ	T05
45	2N2194A†	800m	50MΔ	4.5m	Δ	60	40	5.0	1	0.1u	1.0	10m	15	15					20p	Δ	T05
46	2N2194B†	800m	50MΔ	4.5m	Δ	60	40	5.0	1	0.1u	1.0	10m	15	15					15p	Δ	T05
47	2N2243	800m	50MΔ	4.5m	Δ	120	80	7.0	1	0.1u	1.0	10m	30	30					15p	Δ	T05
48	2N2243A	800m	50MΔ	4.5m	Δ	120	80	7.0	1	0.1u	1.0	10m	30	30					15p	Δ	T05
49	2N2443	800m	50MΔ	4.5m	Δ	120	100	7.0	1	0.1u	5.0	1.0m	30	30					50u	1.0k	T05
50	2N2868	800m	50MΔ	4.5m	Δ	60	40	7.0	1	0.1u	1.0	10m	30	30					20p	Δ	T05
51	2N2890†	800m	50MΔ	5.0m	Δ	100	80	5.0	1	100n	1.0	50m	30	30					120p	Δ	T05
52	2N2891†	800m	50MΔ	5.0m	Δ	100	80	5.0	1	100n	1.0	50m	30	30					120p	Δ	T05
53	2N3036†	800m	50MΔ	4.5m	Δ	120	80	7.0	1	0.1u	2.0	2.0	40	40					120u	900	T05
54	2N4895†	800m	50MΔ	4.5m	Δ	120	60	6.0	5.0	1.0m	2.0	2.0	40	40					80p		T039
55	2N4897†	800m	50MΔ	4.5m	Δ	150	80	6.0	5.0	1.0m	2.0	2.0	40	40					80p		T039
56	2SC1103A	800m	50MΔ	6.4m	Δ	250	250	7.0	100m	100n	1.0	10m	40	40					4.8p	DPL	R216e
57	2SC1748	800m	50M	6.4m	Δ	300	300	7.0	100m	1.0u	2.0	50m	60	60					4.2p	D	T039
58	2SC1940	800m	50MΔ	6.4m	Δ	120	120	5.0	50m	100n	1.0	10m	200	200					2.3p		S9a
59	2SC1941	800m	50MΔ	6.4m	Δ	160	160	5.0	50m	100n	1.0	10m	200	200					2.3p		S9a
60	2SC2230	800m	50MΔ	6.4m	Δ	200	160	5.0	100m	100n	1.0	10m	20	20					7.0p	D	R195e
61	2SC2230A	800m	50MΔ	6.4m	Δ	200	180	5.0	100m	100n	1.0	10m	120	120					7.0p	D	R195e
62	2SD328S	800m	50M	6.4m	Δ	100	60	7.0	1	1.0u	2.0	5.0m	25	25					12p	E	T039
63	2SD624	800m	50M	6.4m	Δ	200	150	5.0	500m	5.0u	5.0	20m	180	180					12p	DM	R179e
64	BC211-6	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	100	100					25p		T039
65	BC211-10	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	160	160					25p		T039
66	BC211-16	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	250	250					25p		T039
67	BC211#	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	100	100					25p		T039
68	BC211A-6	800m	50MΔ	4.5m	Δ	100	60	5.0	1.0	2.0	2.0	150m	160	160					25p		T039
69	BC211A-10	800m	50MΔ	4.5m	Δ	100	60	5.0	1.0	2.0	2.0	150m	160	160					25p		T039
70	BC211A-16	800m	50MΔ	4.5m	Δ	100	60	5.0	1.0	2.0	2.0	150m	250	250					25p		T039
71	BFR511	800m	50MΔ	6.4m	Δ	60	60	6.0	1.0	50n	6.0	1.0m	30	30					8.0p	PE	R188
72	BFR521	800m	50MΔ	6.4m	Δ	40	40	6.0	1.0	50n	6.0	1.0m	30	30					8.0p	PE	R188