

# 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	TEMPERATURE RANGE (°C)	ABS MAX RATINGS @ 25°C			MAX. Ic (A)	MAX. Vcb (V)	TYPICAL 'h' PARAMETERS			COMMON EMITTER			Cob (F)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C O D E	
						Vbvo (V)	Vceo (V)	Vcbo (V)			Vcb (V)	Ic (A)	hfe	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	15p	T05	A	
7	2N3114	800m	40MΔ	4.5m	Δ	150	150	5.0	200m	0.1u	5.0	1.0m	25	25	500n	30	2.5	15p	T05	A	
8	2N3526	800m	40MΔ	4.5m	Δ	130	120	5.0	200m	1.0u	5.0	1.0m	25	25	500n	30	2.5	15p	T05	A	
9	2N3712	800m	40MΔ	5.3m	Δ	150	150	5.0	200m	1.0u	5.0	1.0m	25	25	500n	30	2.5	15p	T05	A	
10	2N3712S	800m	40MΔ	5.3m	Δ	150	150	5.0	200m	100n	1.0	30m	25	25	500n	30	2.5	15p	T05	A	
11	2N3923	800m	40MΔ	4.5m	Δ	150	150	6.0	100m	0.1u	1.0	25m	20	20	500n	30	2.5	15p	T05	A	
12	BC119	800m	40MΔ	4.5m	Δ	60	30	5.0	1.0	0.5u	1.0	150m	40	40	500n	30	2.5	15p	T05	A	
13	BC120	800m	40MΔ	4.5m	Δ	60	30	5.0	1.0	0.5u	1.0	150m	40	40	500n	30	2.5	15p	T05	A	
14	BC138	800m	40MΔ	4.5m	Δ	60	30	5.0	1.0	0.5u	1.0	150m	40	40	500n	30	2.5	15p	T05	A	
15	BC142	800m	40MΔ	4.5m	Δ	60	30	5.0	1.0	0.5u	1.0	150m	40	40	500n	30	2.5	15p	T05	A	
16	BC211	800m	40MΔ	5.3m	Δ	80	40	7.0	1.0	1n	1.0	10m	70	70	500n	30	2.5	15p	T05	A	
17	BC394	800m	40MΔ	1.0m	Δ	160	150	6.0	100m	100n	5.0	10m	50	50	500n	30	2.5	15p	T05	A	
18	BF174	800m	40MΔ	4.5m	Δ	150	150	5.0	100m	100n	5.0	10m	30	30	500n	30	2.5	15p	T05	A	
19	BF294	800m	40MΔ	4.5m	Δ	150	150	5.0	100m	0.1u	1.0	15m	30	30	500n	30	2.5	15p	T05	A	
20	BFX98	800m	40MΔ	4.5m	Δ	150	150	5.0	100m	0.1u	1.0	15m	30	30	500n	30	2.5	15p	T05	A	
21	BFY33	800m	40MΔ	4.5m	Δ	150	150	5.0	100m	0.1u	1.0	15m	30	30	500n	30	2.5	15p	T05	A	
22	BFY57	800m	40MΔ	4.5m	Δ	125	125	5.0	100m	100n	5.0	1.0m	50	50	500n	30	2.5	15p	T05	A	
23	HSE147-RT	800m	40MΔ	6.4m	Δ	70	60	5.0	200m	100u	1.0	150m	150	150	500n	30	2.5	15p	T05	A	
24	MST10S	800m	40MΔ	5.3m	Δ	100	100	5.0	200m	20u	1.0	15m	30	30	500n	30	2.5	15p	T05	A	
25	MST20S	800m	40MΔ	5.3m	Δ	200	200	5.0	200m	2.0u	1.0	15m	30	30	500n	30	2.5	15p	T05	A	
26	MST30S	800m	40MΔ	5.3m	Δ	300	300	5.0	200m	2.0u	1.0	15m	30	30	500n	30	2.5	15p	T05	A	
27	MST40S	800m	40MΔ	5.3m	Δ	400	400	5.0	100m	2.0u	1.0	15m	30	30	500n	30	2.5	15p	T05	A	
28	MST50S	800m	40MΔ	5.3m	Δ	500	500	5.0	100m	4.0u	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
29	MST60S	800m	40MΔ	5.3m	Δ	600	600	5.0	100m	4.0u	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
30	MST70S	800m	40MΔ	5.3m	Δ	700	700	5.0	100m	4.0u	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
31	2N697A†	800m	50MΔ	4.5m	Δ	60	35	5.0	1.0	100n	5.0	1.0m	25	25	500n	30	2.5	15p	T05	A	
32	2N699A	800m	50MΔ	5.2m	Δ	120	80	5.0	1.0	500n	5.0	1.0m	30	30	500n	30	2.5	15p	T05	A	
33	2N1253A†	800m	50MΔ	4.5m	Δ	60	30	5.0	1.0	1.0u	1.0	150m	30	30	500n	30	2.5	15p	T05	A	
34	2N1889	800m	50MΔ	4.5m	Δ	100	60	7.0	500m	10n	5.0	1.0m	30	30	500n	30	2.5	15p	T05	A	
35	2N1893	800m	50MΔ	4.5m	Δ	120	80	7.0	500m	10n	5.0	1.0m	30	30	500n	30	2.5	15p	T05	A	
36	2N1974	800m	50MΔ	4.5m	Δ	100	60	7.0	500m	25n	5.0	1.0m	36	36	50u	1.0k	5.0	2.5	15p	T05	A
37	2N2049	800m	50MΔ	4.5m	Δ	75	50	7.0	500m	10n	5.0	1.0m	75	75	500n	30	2.5	15p	T05	A	
38	2N2192†	800m	50MΔ	4.5m	Δ	60	40	5.0	1.0	0.1u	1.0	10m	75	75	500n	30	2.5	15p	T05	A	
39	2N2192A†	800m	50MΔ	4.5m	Δ	60	40	5.0	1.0	10n	1.0	10m	75	75	500n	30	2.5	15p	T05	A	
40	2N2192B†	800m	50MΔ	4.5m	Δ	60	40	5.0	1.0	0.1u	1.0	10m	75	75	500n	30	2.5	15p	T05	A	
41	2N2193†	800m	50MΔ	4.6m	Δ	80	50	8.0	1.0	10n	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
42	2N2193A†	800m	50MΔ	4.6m	Δ	80	50	8.0	1.0	10n	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
43	2N2193B†	800m	50MΔ	4.5m	Δ	80	50	8.0	1.0	0.1u	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
44	2N2194†	800m	50MΔ	4.5m	Δ	60	40	5.0	1.0	0.1u	1.0	10m	15	15	500n	30	2.5	15p	T05	A	
45	2N2194A†	800m	50MΔ	4.5m	Δ	60	40	5.0	1.0	0.1u	1.0	10m	15	15	500n	30	2.5	15p	T05	A	
46	2N2194B†	800m	50MΔ	4.5m	Δ	60	40	5.0	1.0	0.1u	1.0	10m	15	15	500n	30	2.5	15p	T05	A	
47	2N2243	800m	50MΔ	4.5m	Δ	120	80	7.0	1.0	0.1u	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
48	2N2243A	800m	50MΔ	4.5m	Δ	120	80	7.0	1.0	0.1u	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
49	2N2443	800m	50MΔ	4.5m	Δ	120	100	7.0	1.0	0.1u	5.0	1.0m	30	30	50u	1.0k	5.0	2.5	15p	T05	A
50	2N2868	800m	50MΔ	4.5m	Δ	60	40	7.0	1.0	0.1u	1.0	10m	30	30	500n	30	2.5	15p	T05	A	
51	2N2890†	800m	50MΔ	5.0m	Δ	100	80	5.0	1.0	100n	1.0	50m	50	50	120p	900	120p	900	T05	A	
52	2N2891†	800m	50MΔ	5.0m	Δ	100	80	5.0	1.0	100n	1.0	50m	50	50	120p	900	120p	900	T05	A	
53	2N3036†	800m	50MΔ	4.5m	Δ	120	80	7.0	1.0	0.1u	2.0	2.0	40	40	120p	900	80p	900	T05	A	
54	2N4895†	800m	50MΔ	4.5m	Δ	120	60	6.0	5.0	1.0m	2.0	2.0	40	40	80p	900	80p	900	T05	A	
55	2N4897†	800m	50MΔ	4.5m	Δ	150	80	6.0	5.0	1.0m	2.0	2.0	40	40	80p	900	80p	900	T05	A	
56	2SC1103A	800m	50MΔ	6.4m	Δ	250	250	7.0	100m	100n	1.0	10m	60	60	4.8p	110	4.2p	110	T05	A	
57	2SC1748	800m	50MΔ	6.4m	Δ	300	300	7.0	100m	1.0u	2.0	50m	60	60	2.3p	110	2.3p	110	T05	A	
58	2SC1940	800m	50MΔ	6.4m	Δ	120	120	5.0	50m	100n	1.0	10m	200	200	2.3p	110	2.3p	110	T05	A	
59	2SC1941	800m	50MΔ	6.4m	Δ	160	160	5.0	50m	100n	1.0	10m	200	200	7.0p	110	7.0p	110	T05	A	
60	2SC2230	800m	50MΔ	6.4m	Δ	200	160	5.0	100m	100n	1.0	10m	200	200	7.0p	110	7.0p	110	T05	A	
61	2SC2230A	800m	50MΔ	6.4m	Δ	200	180	5.0	100m	100n	1.0	10m	200	200	7.0p	110	7.0p	110	T05	A	
62	2SD328S	800m	50MΔ	6.4m	Δ	100	60	7.0	1.0	1.0u	2.0	5.0m	25	25	12p	110	12p	110	T05	A	
63	2SD624	800m	50MΔ	6.4m	Δ	200	150	5.0	500m	5.0u	5.0	200m	180	180	12p	110	12p	110	T05	A	
64	BC211-6	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	100	100	25p	110	25p	110	T05	A	
65	BC211-10	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	160	160	25p	110	25p	110	T05	A	
66	BC211-16	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	250	250	25p	110	25p	110	T05	A	
67	BC211#	800m	50MΔ	4.5m	Δ	80	40	5.0	1.0	2.0	2.0	150m	100	100	25p	110	25p	110	T05	A	
68	BC211A-6	800m	50MΔ	4.5m	Δ	100	60	5.0	1.0	2.0	2.0	150m	160	160	25p	110	25p	110	T05	A	
69	BC211A-10	800m	50MΔ	4.5m	Δ	100	60	5.0	1.0	2.0	2.0	150m	160	160	25p	110	25p	110	T05	A	
70	BC211A-16	800m	50MΔ																		