

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	TYPE No.	1 MAX. 2		DERATE		ABS MAX RATINGS @25°C				TYPICAL h' PARAMETERS					Cob	STRUC-TURE	DWG Y200 s/a TO200 Ser.	# L E O D A		
		COLL. DISS. @25°C (W)	fab	IN FREE AIR W/°C	M E A M P	BVcbo (V)	BVceo (V)	BEbo (V)	Ic (A)	MAX. lcb0 @MAX Vcb (A)	BIAS			COMMON EMITTER						
											Vcb (V)	le (A)	hfe	hoe (mhos)					hie (Ω)	hre
1	2N1410A†	800m	230M	4.0m	SJ	45	30	4.0	500m	10u	100	150m	80	†				T05	A	
2#	BFY51Z†	800m	230M	4.0m	SJ	60	30	6.0	1.0	50n	5.0	10m	45	Δ	80u	750	5.0u	T039	A	
3	SE8041	800m	230M	4.5m	SJ	30	30	6.0	1.0	50n	1.0	150m	70	†#			9.0p	T039	A	
4	BFY16S†	800m	240M	4.5m	SJ	55	30	6.0	1.0	1.0u	1.0	100M	100	†#			20p	T039	A	
5	BSY24S†	800m	240M	4.5m	SJ	55	30	6.0	1.0	1.0u	1.0	100M	100	†#			20p	T039	A	
6	2N2217	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	0.1u	100	1.0m	12	†Δ			8p	T05	A	
7	2N2218	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	0.1u	100	1.0m	25	†Δ			8p	T05	A	
8	JAN2N2218A†	800m	250MΔ	4.5m	SS	60	30	5.0	800m	10n	100	1.0m	25	†Δ			8.0p	T039	A	
9	2N2218A†	800m	250MΔ	5.3m	SJ	75	40	6.0	800m	10n	100	1.0m	30	†Δ	15u	3.5k	5.0	T05	A	
10	JAN2N2218A†	800m	250MΔ	4.5m	SS	75	50	6.0	800m	10n	100	1.0m	30	†Δ			8.0p	T039	A	
11	2N2219	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	0.1u	100	1.0m	50	†Δ			8.0p	T05	A	
12	JAN2N2219†	800m	250MΔ	4.5m	SS	60	30	5.0	800m	10n	100	1.0m	50	†Δ			8.0p	T039	A	
13	JAN2N2219A†	800m	250MΔ	4.5m	SS	75	50	6.0	800m	10n	100	1.0m	50	†Δ			8.0p	T039	A	
14	2N2224	800m	250MΔ	5.3m	SJ	65	40	5.0	500m	10n	100	100u	35	†#			8.0p	T05	A	
15	2N2537†	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	25u	100	1.0m	20	†Δ			8p	T05	A	
16	2N2538†	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	25u	100	1.0m	30	†Δ			8p	T05	A	
17	2N2787†	800m	250MΔ	4.6m	SJ	75	35	5.0	800m	10n	200	20m	30	†Δ	200n	35	15	8.0p	T05	A
18	2N2788†	800m	250MΔ	4.6m	SJ	75	35	5.0	800m	10n	200	20m	75	†Δ	200n	35	2.0	8.0p	T05	A
19	2N2789†	800m	250MΔ	4.6m	SJ	75	35	5.0	800m	10n	200	20m	150	†Δ	200n	35	2.5	8.0p	T05	A
20	2N2789S†	800m	250MΔ	4.6m	SJ	75	35	5.0	800m	10n	200	20m	150	†Δ	200n	35	2.5	8.0p	T039	A
21	2N2846†	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	20u	100	150m	30	†#			8p	T05	A	
22	2N2848†	800m	250MΔ	4.5m	SJ	60	20	5.0	800m	20u	100	150m	40	†#			8p	T05	A	
23	2N3015†	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	20u	100	150m	30	†#			8p	T05	A	
24	2N3299†	800m	250MΔ	4.5m	SJ	60	30	5.0	500m	0.1u	100	10m	20	†Δ			8p	T05	A	
25	2N3300†	800m	250MΔ	4.5m	SJ	60	30	5.0	500m	0.1u	100	10m	35	†Δ			8p	T05	A	
26	2N3326†	800m	250MΔ	5.3m	SJ	60	45	5.0	800m	0.1u	100	10m	35	†Δ			8p	T05	A	
27	2N3512†	800m	250MΔ	4.5m	SS	60	35	5.0	800m	1.0	100	500m	10	†#			10p	T05	A	
28	2N3678†	800m	250MΔ	4.5m	SJ	75	55	6.0	800m	0.1u	100	150m	40	†#			8p	T05	A	
29	2N3981†	800m	250MΔ	4.5m	SJ	60	30	5.0	1.0	300n	1.0	150m	30	†Δ			8.0p	T05	A	
30	2N3982†	800m	250MΔ	4.5m	SJ	50	20	5.0	1.0	300n	1.0	150m	40	†Δ			8.0p	T05	A	
31	2N4046†	800m	250MΔ	4.5m	SJ	50	30	6.0	500m	1.7u	1.0	100m	150	†#			12p	T05	A	
32	2N4047†	800m	250MΔ	4.5m	SJ	80	50	6.0	500m	1.7u	1.0	100m	150	†#			10p	T05	A	
33	2N4960†	800m	250MΔ	4.5m	SJ	60	60	6.5	1.0	0.1u	100	1.0m	60	†#			15p	T039	A	
34	2N4962†	800m	250MΔ	2.9m	SJ	60	60	6.5	1.0	0.1u	100	1.0m	60	†#			15p	T039	A	
35#	2SC971	800m	250M	5.3m	SJ	60	30	5.0	1.0	1.0u	100	150m	60	†#			20p	T05	A	
36#	2SC502	800m	250M	6.7m	SJ	60	60	5.0	1.0	1.0u	5.0	200m	30	†#			13p	T05	A	
37#	2SC580	800m	250M	6.25u	SJ	60	30	5.0	1.0	1.0u	100	50m	80	†#			10p	T05	A	
38#	BF322	800m	250M	5.3m	SJ	30	25	3.0	600m	100	100	10m	300	†*			6.0p	T039	A	
39#	BFR10†	800m	250MΔ	4.5m	SJ	40	40	5.0	800m	100	100	150m	60	†Δ			8.0p	T039	A	
40#	BFX17	800m	250MΔ	4.5m	SJ	60	40	6.0	1.0	2.0u	1.0	100m	35	†Δ			12p	T05	A	
41#	BFX96	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	0.1u	100	150m	40	†#			8.0p	T05	A	
42#	BFX96A	800m	250M	4.5m	S	60	30	5.0	800m	10n	100	150m	40	†#			8.0p	T039	A	
43#	BFX96A	800m	250MΔ	4.5m	S	60	30	5.0	800m	10n	100	150m	40	†#			8.0p	T039	A	
44#	BFX97	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	0.1u	100	150m	100	†#			8p	T05	A	
45#	BFX97A	800m	250M	4.5m	S	60	30	5.0	800m	10n	100	150m	100	†#			8.0p	T039	A	
46#	BFX97A	800m	250MΔ	4.5m	SJ	60	30	5.0	800m	10n	100	150m	100	†#			8.0p	T039	A	
47#	BFY52†	800m	250M	4.0m	SJ	40	20	6.0	1.0	50n	5.0	10m	45	†Δ	80u	750	5.0u	T039	A	
48	HSE163-RT	800m	250MΔ	6.4m	SJ	50	30	5.0	500m	50n	100	300m	50	†Δ			6.0p	T05	A	
49	HSE164-RT	800m	250MΔ	6.4m	SJ	65	40	4.0	5.0	50n	1.0	300m	30	†Δ			6.0p	T05	A	
50	MM1613†	800m	250MΔ	4.5m	SJ	60	40	5.0	50n	50n	100	150m	40	†Δ			6.0p	T05	A	
51	MM1711†	800m	250MΔ	4.5m	SJ	60	30	5.0	50n	50n	100	150m	100	†Δ			6.0p	T05	A	
52	UPI2217	800m	250M	5.3m	#J	65	30	5.0	800m	14m	100	1.0m	18	†			8.0p	T05	A	
53	UPI2218	800m	250M	5.3m	#J	65	30	5.0	800m	14m	100	1.0m	30	†			8.0p	T05	A	
54	UPI4046	800m	250M	4.5m	#J	60	35	6.0	500m	1.7u	1.0	100m	150	†			2.0p	T05	A	
55	UPI4047	800m	250M	4.5m	#J	70	40	6.0	500m	1.7u	1.0	100m	150	†			10p	T05	A	
56	2N2219A†	800m	300MΔ	5.3m	SJ	75	40	6.0	800m	0.1u	100	1.0m	50	†Δ	35u	8.0k	8	8p	T05	A
57	2N3722†	800m	300MΔ	4.5m	SJ	80	60	6.0	500m	50u	1.0	10m	25	†#			10p	T05	A	
58	2N3723†	800m	300MΔ	4.5m	SJ	100	80	6.0	500m	50u	1.0	10m	25	†#			9p	T05	A	
59	2N3724†	800m	300MΔ	4.6m	SJ	50	30	6.0	500m	1.7u	1.0	100m	60	†#			12p	T039	A	
60	2N3725†	800m	300MΔ	4.6m	SJ	80	50	6.0	500m	1.7u	1.0	100m	60	†#			10p	T039	A	
61	2N5145	800m	300MΔ	4.5m	SJ	50	30	6.0	500m	1.7u	1.0	10m	30	†#			12p	T039	A	
62	A5T5058	800m	300MΔ	6.4m	SS	300	300	7.0	150m	50n	250	30m	35	†Δ			10p	R203	A	
63	A5T5059	800m	300MΔ	6.4m	SS	250	250	6.0	150m	50n	250	30m	30	†Δ			10p	R203	A	
64	BC211A	800m	300M	5.3m	SJ	100	60	7.0	1.0	100n	2.0	500m	20	†Δ			8.0p	T039	A	
65#	BC232M	800m	300M	5.3m	SJ	40	30	5.0	400m	100n	2.0	50m	100	†*			6.0p	T039	A	
66#	BSX30†	800m	330M	4.5m	SJ	60	30	5.0	200n	100	100	150m	63	†#			5.0p	T05	A	
67#	2SC97A†	800m	350M	5.3m	SJ	80	45	5.0	1.0	50u	1.0	500m	40	†#			10p	T039	A	
68#	2SC198A	800m	350M	5.3m	SJ	50	50	5.0	500m	1.0u	100	20m	40	†			50	T012	A	
69#	2SC319	800m	350MΔ	5.3m	SJ	40	20	4.0	300m	1.0u	100	100m	20	†#			10p	T033	A	
70#	2SC781	800m	350M	5.3m	SJ	75	40	5.0	1.0	1.0u	100	150m	80	†			11p	T05	A	
71#	BFR10†	800m	350M	5.3m	SJ	50	28	5.0	20n	100	100	10m	90	†	55u	460	1.3	5.0p	T039	A
72#	BFY72	800m	350M	5.3m	SJ	50	28	5.0	20n	100	100	10m	90	†			5.0p	T05	A	
73#	2N2217A	800m	400M	5.6m	SJ	75	40	6.0	300m	0.1u	100	150m	40	†#			4.0p	T05	A	
74	2N2883	800m	400MΔ	4.5m	SJ	40	20	4.0	300m	50u	100	100m	20	†#			10p	T05	A	
75	2N2884	800m	400MΔ	4.5m	SJ	40	20	4.0	300m	50u	100	100m	20	†#			10p	T05	A	
76	2N3123	800m	400MΔ	5.2m	SJ	60	30													