

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)	DERATE IN FREE AIR W/°C	TEMPERATURE M A M P	ABS MAX RATINGS @ 25°C				MAX. I _{cb} @ MAX V _{cb} (A)	TYPICAL h _{FE} PARAMETERS			COMMON EMITTER			Cob (F)	STRUC-TURE	DWG Y200 s/a TO200 Ser.	# L E O D E
						V _{cb} (V)	V _{ce} (V)	V _{be} (V)	I _c (A)		V _{cb} (V)	I _e (A)	h _{fe}	h _{oe} (mhos)	h _{ie} (Ω)	h _{re} X.0001				
1	BC238A5	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	220	8.0u	2.2k	1.5	4.5p	AN	R207	A	
2	BC238A18	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	220	8.0u	2.2k	1.5	4.5p	AN	R204e	A	
3	BC238B	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	220	8.0u	2.2k	1.5	4.5p	AN	R210a	F	
4	BC238B5	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	330	10u	6.0k	2.0	4.5p	AN	R207	A	
5	BC238B18	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	330	10u	6.0k	2.0	4.5p	AN	R204e	A	
6	BC238B	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	330	10u	6.0k	2.0	4.5p	AN	R210a	F	
7	BC238C5	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	600	12u	8.7k	3.0	4.5p	AN	R207	A	
8	BC238C18	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	600	12u	8.7k	3.0	4.5p	AN	R204e	A	
9	BC238C	350m	240M	2.8m	\$J	20	5.0	100m	15m	5.0	2.0m	600	12u	8.7k	3.0	4.5p	AN	R210a	F	
10	2N3643	350m	250M	3.5m	\$J	60	30	5.0	500m	50m	10	150m	100	10	8.0p	PE	R110a	A		
11	2N39031	350m	250M	2.8m	\$J	60	40	6.0	200m	50m	10	1.0m	50	40	4.0p	PE	TO92	A		
12	2N4123	350m	250M	2.8m	\$J	40	30	5.0	200m	50m	10	2.0m	50	40	4.0p	PE	TO92	A		
13	2N44011	350m	250M	2.8m	\$J	60	40	6.0	600m	100m	10	1.0m	40	40	6.5p	PE	TO92	A		
14	2N52241	350m	250M	2.8m	\$S	25	12	5.0	100m	500m	1.0	10m	40	40	4.0p	PE	TO92	A		
15	2N6503*	350m	250M	2.0m	\$S	80	40	6.0	1.0	1.7u	1.0	500m	10	10	10p	PE	X22	A		
16#	2SC2041	350m	250M	2.3m	\$J	30	20	5.0	200m	50m	6.0	2.0m	70	40	4.0p	PE	TO18	A		
17	BC445	350m	250M	2.8m	\$J	60	60	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R210a	F		
18	BC445-5	350m	250M	2.8m	\$J	60	60	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R207	A		
19	BC445-18	350m	250M	2.8m	\$J	60	60	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R204e	A		
20	BC447	350m	250M	2.8m	\$J	80	80	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R210a	F		
21	BC447-5	350m	250M	2.8m	\$J	80	80	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R207	A		
22	BC447-18	350m	250M	2.8m	\$J	80	80	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R204e	A		
23	BC449	350m	250M	2.8m	\$J	100	100	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R210a	F		
24	BC449-5	350m	250M	2.8m	\$J	100	100	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R207	A		
25	BC449-18	350m	250M	2.8m	\$J	100	100	5.0	200m	100m	5.0	1.0m	150	1#	3.0p	AN	R204e	A		
26#	BSS791	350m	250M	2.8m	\$J	75	40	6.0	800m	10u	10	150m	40	40	8.0p	PE	X156a	A		
27#	BSS79B*	350m	250M	2.8m	\$J	75	40	6.0	800m	10n	10	150m	40	40	8.0p	PE	X236	C		
28#	BSS79C*	350m	250M	2.8m	\$J	75	40	6.0	800m	10n	10	150m	40	40	8.0p	PE	Y236	C		
29#	BSS81B	350m	250M	2.8m	\$J	75	35	6.0	800m	10n	10	150m	40	40	8.0p	PE	Y236	C		
30#	BSS81C	350m	250M	2.8m	\$J	75	35	6.0	800m	10n	10	150m	40	40	8.0p	PE	Y236	C		
31#	BSW411	350m	250M	2.0m	\$J	40	25	5.0	300m	500m	10	10m	30	10	8.0p	PE	TO18	A		
32	EN2219	350m	250M	3.6m	\$J	60	30	5.0	800m	0.5u	10	1.0m	35	10	8.0p	PE	TO105	A		
33	MD1129F*	350m	250M	2.0m	\$J	60	30	5.0	500m	10m	10	10u	60	10	8.0p	AN	X22	A		
34	MD2218AF*	350m	250M	2.0m	\$J	75	40	6.0	500m	15n	10	100m	50	1#	3.5p	AN	X22	PB		
35	MD2218F*	350m	250M	2.0m	\$J	60	30	5.0	500m	20n	10	100m	50	1#	3.5p	AN	X22	PB		
36	MD2219AF*	350m	250M	2.0m	\$J	75	40	6.0	500m	15n	10	100m	45	1#	3.5p	AN	X22	PB		
37	MD2219F*	350m	250M	2.0m	\$J	60	30	5.0	500m	20n	10	100m	45	1#	3.5p	AN	X22	PB		
38	MMBT2222	350m	250M	2.8m	\$S	60	30	5.0	500m	50n	10	100u	35	10	8.0p	AN	X156d	A		
39#	MPS2713	350m	250M	2.8m	\$J	18	18	200m	4.5	2.0m	30	10	2.5p	2.5p	8.0p	PE	TO92	A		
40#	MPS2714	350m	250M	2.8m	\$J	18	18	200m	4.5	2.0m	75	10	2.5p	2.5p	8.0p	PE	TO92	A		
41	MPS6512	350m	250M	2.8m	\$J	40	30	4.0	100m	50n	10	2.0m	50	10	3.5p	AN	TO92	A		
42	MPS6513	350m	250M	2.8m	\$J	40	30	4.0	100m	50n	10	2.0m	90	10	3.5p	AN	TO92	A		
43#	ZTX237AK	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	220	4.5p	PLT	B58	A			
44#	ZTX237AL	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	220	4.5p	PLT	B58	A			
45#	ZTX237AM	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	220	4.5p	PLT	B58	A			
46#	ZTX237BK	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	330	4.5p	PLT	B58	A			
47#	ZTX237BL	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	330	4.5p	PLT	B58	A			
48#	ZTX237BM	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	330	4.5p	PLT	B58	A			
49#	ZTX237K	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	125	4.5p	PLT	B58	A			
50#	ZTX237L	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	125	4.5p	PLT	B58	A			
51#	ZTX237M	350m	250M	2.3m	\$S	50	45	6.0	100m	15n	5.0	2.0m	125	4.5p	PLT	B58	A			
52#	ZTX238AK	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	220	4.5p	PLT	B58	A			
53#	ZTX238AL	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	220	4.5p	PLT	B58	A			
54#	ZTX238AM	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	220	4.5p	PLT	B58	A			
55#	ZTX238BK	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	330	4.5p	PLT	B58	A			
56#	ZTX238BL	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	330	4.5p	PLT	B58	A			
57#	ZTX238BM	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	330	4.5p	PLT	B58	A			
58#	ZTX238CK	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	600	4.5p	PLT	B58	A			
59#	ZTX238CL	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	600	4.5p	PLT	B58	A			
60#	ZTX238CM	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	600	4.5p	PLT	B58	A			
61#	ZTX238K	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	125	4.5p	PLT	B58	A			
62#	ZTX238L	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	125	4.5p	PLT	B58	A			
63#	ZTX238M	350m	250M	2.3m	\$S	45	30	6.0	100m	15n	5.0	2.0m	125	4.5p	PLT	B58	A			
64	BC239	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	180	10u	4.5p	AN	R210a	F			
65	BC239-5	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	180	10u	4.5p	AN	R210a	F			
66	BC239-18	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	180	10u	4.5p	AN	R210a	F			
67	BC239B5	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	330	10u	6.0k	2.0	4.5p	AN	R207	A	
68	BC239B18	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	330	10u	6.0k	2.0	4.5p	AN	R204e	A	
69	BC239B	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	330	10u	6.0k	2.0	4.5p	AN	R207	A	
70	BC239C5	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	600	12u	8.7k	3.0	4.5p	AN	R207	A	
71	BC239C18	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	600	12u	8.7k	3.0	4.5p	AN	R204e	A	
72	BC239C	350m	280M	2.8m	\$J	45	5.0	100m	15m	5.0	2.0m	600	12u	8.7k	3.0	4.5p	AN	R204e	A	
73	BC317	350m	280M	2.8m	\$J	50	45	6.0	150m	30n	5.0	2.0m	20	2.5p	AN	R210b	A			
74	BC317A	350m	280M	2.8m	\$J	50	45	6.0	150m	30n	5.0	2.0m	220	2.5p	AN	R210a	A			
75	BC317B	350m	280M	2.8m	\$J	50	45	6.0	150m	30n	5.0	2.0m	330	2.5p	AN	R210b	A			
76	BC318	350m	280M	2.8m	\$J	40	30	5.0	150m	30n	5.0	2.0m	20	2.5p	AN	R210a	A			
77	BC318A	350m	280M	2.8m	\$J	40	30	5.0	150m	30										