

# 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   DERATE fab (Hz)	T   FREE AIR W/C	M   E   A   M	ABS MAX RATINGS @ 25°C				MAX. I <sub>cb0</sub> @ V <sub>cb</sub> (A)	TYPICAL 'h' PARAMETERS			COMMON EMITTER			Cob (F)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C E O D E		
						V <sub>cb0</sub> (V)	V <sub>ceo</sub> (V)	V <sub>ebo</sub> (V)	I <sub>c</sub> (A)		V <sub>cb</sub> (V)	I <sub>e</sub> (A)	h <sub>fe</sub>	h <sub>oe</sub> (mhos)	h <sub>ie</sub> (Ω)	h <sub>re</sub>						
1#	ZTX338A	750m	200M	6.8m	SS	30	25	5.0	800m	100m	1.0	100m	160	†			12p	PL†	B58	A		
2#	ZTX338AK	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	100	†Δ			12p	PL	B58	A		
3#	ZTX338AL	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	100	†Δ			12p	PL	B58	A		
4#	ZTX338AM	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	100	†Δ			12p	PL	B58	A		
5#	ZTX338B	750m	200M	6.8m	SS	30	25	5.0	800m	100m	1.0	100m	250	†			12p	PL†	B58	A		
6#	ZTX338BK	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	160	†Δ			12p	PL	B58	A		
7#	ZTX338BL	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	160	†Δ			12p	PL	B58	A		
8#	ZTX338BM	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	160	†Δ			12p	PL	B58	A		
9#	ZTX338C	750m	200M	6.8m	SS	30	25	5.0	800m	100m	1.0	100m	400	†			12p	PL†	B58	A		
10#	ZTX338CK	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	250	†Δ			12p	PL	B58	A		
11#	ZTX338CL	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	250	†Δ			12p	PL	B58	A		
12#	ZTX338CM	750m	200M	6.8m	SS	30	30	5.0	800m	100m	1.0	100m	250	†Δ			12p	PL	B58	A		
13#	2SC111	750m	240M			50		5.0	300m	10u	2.0	200m	50			6.0p	PE	T05	A			
14#	2SC32	750m	250M		SJ	60	25	5.0	200m	.10u	10	10m	60			4.0p	PE	T05	A			
15#	2SC526	750m	250M	5.0m	SJ	165	150	5.0	55m	2.0u	20	45m	20	†Δ		3.5p	PEM	T05	A			
16#	2SC1217†	750m	250M	5.0m	SJ	150	150	5.0	300m	100m	1.0	50m	70	†		6.0p	PE	T039	A			
17#	2SC1811-1	750m	250M	7.9m	SJ	240	150	5.0	100m	200m	5.0	3.0m	50	†Δ*		2.4p	PE	R232	B			
18#	2SC1811-2	750m	250M	7.9m	SJ	240	175	5.0	100m	200m	5.0	3.0m	102	†Δ*		2.4p	PE	R232	B			
19#	2SC1957	750m	250M	6.0m	SJ	75	40	4.0	1.0	1.0u	10	500m	90	†		14p	PE	B16m	B			
20#	2SC2314	750m	250M		SJ	75	45	5.0	1.0	1.0u	5.0	500m	150	†		25p	PE	TO126	B			
21#	2SC1218†	750m	300M	5.0m	SJ	80	80	5.0	500m	100m	1.0	50m	80	†		6.0p	PE	TO39	A			
22#	2SC1973	750m	300M	5.0m	SJ	55	45	4.0	800m	1.0u	5.0	100m	20	†Δ		6.0p	PE	R182a	B			
23	BT3724	750m	300M	4.2m	SJ	50	30	6.0		1.7u	10	100m	60	†Δ		6.0p	PE	C14b	AA			
24	BT3724T	750m	300M	4.2m	SJ	50	30	6.0		1.7u	10	100m	60	†Δ		6.0p	PE	TO18	A			
25	BT3725	750m	300M	4.2m	SJ	80	50	6.0		1.7u	10	100m	60	†Δ		6.0p	PE	C14b	AA			
26	BT3725T	750m	300M	4.2m	SJ	80	50	6.0		1.7u	10	100m	60	†Δ		6.0p	PE	TO18	A			
27#	2SD755	750m	300M	6.0m	SJ	100	100	5.0	50m	500m	12	2.0m	1.2k	†*		1.6p	PE	R195c	B			
28#	2SD756	750m	350M	6.0m	SJ	120	120	5.0	50m	500m	12	2.0m	1.2k	†*		1.6p	PE	R195c	B			
29#	2SD756A	750m	350M	6.0m	SJ	140	140	5.0	50m	500m	12	2.0m	500	†*		1.6p	PE	R195c	B			
30#	2SC1976	750m	700M	6.8m	SJ	36	18	4.0	500m	1.0u	13	100m	70	†		6.0p	PE	R182a	B			
31#	2SC652	750m	800M	5.9m	SJ	40	20	3.0	300m	100m	1.0	100m	20	†Δ		2.5p	PE	TO5	A			
32#	2SC651	750m	1.1G		SJ	45	22	4.0	300m	100m	1.0	100m	80			3.5p	PE	TO5	A			
33	KJ6001	750m	3.5G	4.0m	SJ	20		3.0	100m	100m	1.0	50m	20	Δ		1.7p	PE	W21	R			
34#	BSW39-6†	790m	50M	4.5m	SJ	100	80	7.0	1.0	30m	1.0	1.0m	20	†		20p	PE	TO39	A			
35#	BSW39-10†	790m	50M	4.5m	SJ	100	80	7.0	1.0	30m	1.0	1.0m	30	†Δ		20p	PE	TO39	A			
36#	BSW39-16†	790m	50M	4.5m	SJ	100	80	7.0	1.0	30m	1.0	1.0m	40	†Δ		20p	PE	TO39	A			
37	2N1105	800m		4.6m	SS	60	60	8.0	500m	10u	10	200m	12	†Δ			PL	TO43	A			
38	2N1943	800m		4.5m	SJ	60	60	8.0	500m	10u	6.0	1.0m	12	†			PL	TO5	A			
39	2N2886	800m		4.5m	SJ	50	40	5.0	500m	1.0u	1.5	50m	22	†Δ			PL	TO5	A			
40	2N5189	800m		4.5m	SS	60	55	5.0	2.0	100u	1.0	1.0	15	†			PL	R179q	A			
41	2N5262†	800m		5.7m	SS	75	50	5.0	2.0	100u	1.0	500m	40	†Δ			PL	R179n	A			
42#	2SC1069†	800m		5.3m	SJ	100	80	6.0	1.0	500m	3.0	500m	40	†			PE	TO39	A			
43#	2SC1072†	800m			SJ						1.0	500m	35	†Δ		12p	PE	R179n	A			
44#	2SC1072A†	800m			SJ						500m	35	†Δ		3.0p	PE	R179n	A				
45#	2SC1150†	800m		5.3m	SJ	60	50	5.0	1.0	500m	1.0	500m	50				PE	R216	A			
46#	2SC1385H†	800m		5.3m	SJ	60	30	5.0	500m	500m	1.1	300m	35	†Δ			PE	TO39	A			
47#	2SC1386H†	800m		5.3m	SJ	70	52	5.0	1.0	100u	1.0	60m	30	†Δ			PE	TO39	A			
48#	2SC1388†	800m		4.5m	SJ	100	80	6.0	1.0	500m	3.0	500m	15	*			PE	TO39	A			
49#	2SC1635†	800m		5.3m	SJ	70	50	5.0	1.0	300m	1.0	500m	50				PE	R216a	A			
50#	2SD329†	800m		5.3m	SJ	70	200	5.0	1.0	20u	4.0	1.0	40	†			PE	TO39	A			
51#	BC312	800m			SJ	100	100	5.0	150m	100n	10	30m	130	†		5.3u	1.5k	1.5	6.0p	PL	TO5	A
52#	BCW90K	800m		6.4m	SJ	50	40	5.0	800m	30m	2.0	150m	100	†Δ		12p	PE	R198	A			
53#	BCW91K	800m		6.4m	SJ	70	60	5.0	800m	30m	2.0	150m	100	†Δ		12p	PE	R198	A			
54#	BF355	800m		4.5m	SJ	300	225	5.0	100m	100u	1.0	10m	20	†			PL	TO39	A			
55#	BFR36	800m		5.0m	SJ	40	30	4.0	150m		5.0	150m	40	†		2.1p	PE	TO39	A			
56#	BFY40	800m			SJ	30	30	4.0	800m		10	10m	40	†Δ		20p	PE	TO39	A			
57#	BFY41	800m		4.5m	SS	120	120	5.0	600m	10u	10	50m	35	†		14p	PL	TO5	A			
58#	BFY41	800m			SJ	60	40	4.0	600m		10	50m	35	†			PE	TO39	A			
59#	BSV69†	800m		5.2m	SJ	45	40	6.0	1.0	100u	1.0	500m	50	†		10p	PE	TO39	A			
60#	C428	800m		4.5m	SJ	40	30	5.0		50u	10	10m	150	†		14p	PE	TO39	A			
61#	C744	800m		8.0m	SJ	60	60	5.0		100u	10	50m	175	†		14p	PE	TO39	A			
62	2N1445	800m	75k†	4.5m	SJ	120	120	8.0	750m	10u	10	200m	80	†			PL	TO5	A			
63	2N4237	800m	1.0M	4.5m	SJ	50	40	6.0		100u	10	100m	30	†		100p	PE	TO5	A			
64	2N4238	800m	1.0M	4.5m	SJ	80	60	6.0	1	100u	10	100m	30	†		100p	PE	TO5	A			
65	2N4239	800m	1.0M	4.5m	SJ	100	80	6.0	1	100u	10	100m	30	†		100p	PE	TO5	A			
66#	2SD149	800m	1.2M	5.3m	SJ	70	70	5.0	1.0	20u	4.0	1.0	40	†		100p	PE	TO5	A			
67#	2SD215	800m	1.2M	5.3m	SJ	40	35	5.0	1.0	20u	4.0	500m	70	†			DM	TO39	A			
68#	2SD216	800m	1.2M	5.3m	SJ	60	50	5.0	1.0	20u	4.0	500m	70	†			DM	TO39	A			
69	JAN2N3439†	800m	15M	4.5m	SS	450	350	7.0	1.0	500u	10	50m	25	†		10p	PE	TO5	A			
70	JAN2N3440†	800m	15M	4.5m	SS	300	250	7.0	1.0	500u	10	50m	25	†		10p	PE	TO5	A			
71#	2SC1888	800m	15M	6.4m	SJ	80	60	6.0	3.0	100u	4.0	200m	500	†Δ		60p	PE	TO5	A			
72#	2SC1889	800m	15M	6.4m	SJ	100	80	6.0	3.0	100u	4.0	200m	500	†Δ		60p	PE	TO5	A			
73	HSE148-RT	800m	15M	6.4m	SJ	70	60	5.0		100u	1.0	150m	40	†Δ			PE	TO5	A			
74	MJ420	800m	15M	5.3m	SJ	275	250	6.0	100m	100u	20	10m	25	†		12p	PE	TO5	C			
75	MJ421	800m	15M	5.3m	SJ	350	325	6.0	100m	100u	20	10m	25	†		12p	PE	TO5	C			
76	2N1714	800m	16M	5.3m	SJ	90	60	6.0	750m	1.0u	5.0	200m	20	†		50p	PE	TO5	A			
77	JAN2N1714	800m	16M	5.2m	SJ	90	60	6.0	750m	1.0u	5.0	200m	20	†		50	PE	TO5	A			