

LOW-POWER SILICON NPN

Item Number	Part Number	Manufacturer	V _{(BR)CEO} (V)	h _{FE}	I _C Max (A)	f _T (Hz)	C _{obo} Max (F)	I _{CBO} Max (A)	V _{(BR)CBO} (V)	P _D Max (W)	Derate at (W/°C)	T _{oper} Max (°C)	Package Style
V_{(BR)CEO} ≥ 50 V, (Cont'd)													
-	2N2193B	See Index	50	30	1	50M	20p	.01u	80	800m	4.5m	175 J	TO-5
-	NB312E	Natl Semi	50	30	1.5	20M	10p	500n	55	600m		150 J	TO-92
-	NB312F	Natl Semi	50	30	1.5	20M	10p	500n	55	600m		150 J	TO-92
-	NB312X	Natl Semi	50	30	1.5	20M	10p	500n	55	600m		150 J	TO-92
5	NB312Y	Natl Semi	50	30	1.5	20M	10p	500n	55	600m		150 J	TO-92
-	2SC486	Solid StInc	50	30	1.5	20.M		10u	80	800m	6.7m	150 J	TO-39
-	2N2389	Space Power	50	35	500m	60M	25p	10n	75	450m	2.5m	175 J	Macro-T
-	2N2389	Hi-Tron	50	35	500m	60M	25p	10n	75	450m	2.5m	175 J	Macro-T
-	BFY34	See Index	50	35	1.0	60M	25p	10n	75	800m	4.5m	175 J	TO-5
10	SA2710	SemiconTech	50	40		180M	3p	2n	60	300m	2.0m	150 J	TO-78
-	2SC1570	Sanyo Elect	50	40	100m	100M		100n	55	200m		125	TO-92var
-	2SC734	See Index	50	40	150m	150M	5.0p	.10u	70	300m	3.0m	125 J	TO-98var
-	2SC2000M	NECElecInc	50	40	200m	70M	3.7p	100n	60	600m	4.8m	150 J	TO-92
-	MPS6591	See Index	50	40	250m	60M		100n	60	310m	2.8m	150 J	TO-92
15	2N2253	SemiconTech	50	40	500m	60M	8.0p	10n	45	500m	2.8m	175 S	TO-18
-	2N2253	CrimsonSemi	50	40	500m	60M	8.0p	10n	45	500m	2.8m	175 S	TO-18
-	SL100	Semi Ltd	50	40	500m	100M	20p	1.0u	60	800m			TO-39
-	SO1613	ThmsnCSFEFC	50	40	0.8	60M	25p			350m	1.6m	150 J	TO-236
-	2SC109A	ToshibaCorp	50	40	800m	150M	9.0p	500n	70	800m	5.3m	175 J	TO-39
20	2SD220	Sanken Elec	50	40	1.0	8.0M		1.0u	80	500m	4.0m	150 J	TO-5
-	2SD220	Elec Trans	50	40	1.0	8.0M		1.0u	80	500m	4.0m	150 J	TO-5
-	A5T2193	SemiconTech	50	40	1.0	50M	20p	10n	80	625m	5.0m	150 S	TO-92var
-	2N2351	See Index	50	40	1	50M	20p	.01u	80	400m	2.3m	175 J	TO-46
-	2N2351A	See Index	50	40	1	50M	20p	.01u	80	400m	2.3m	175 J	TO-46
25	2N5262	See Index	50	40	2.0			100u	75	800m	5.7m	175 S	TO-9var
-	MPS9434	Micro Elecs	50	45	600m			100n	50	625m	5.0m	150 J	TO-92
-	UPI956	UPI Semi	50	50		70M	25p	10n	75	500m	2.8m	175 J	TO-106
-	HSE146	Hybrid Semi	50	50		100M		200n	70	800m	6.4m	150 J	TO-5
-	2SC216	RF Gain	50	50	300m			.10u	50	650m	4.3m	175 J	TO-5
30	2SC46	RF Gain	50	50	300m	180M	15p	100n	60	600m		150 J	TO-5
-	2SC564	Solid StInc	50	50	500m			1.0u	50	650m	4.3m	175 J	TO-39
-	BEL100N	Bharat	50	50	1.0				60	800m			TO-39
-	UPI1711	UPI Semi	50	50	1.0	70M	25p	10n	75	800m	4.5m	175 J	TO-105
-	2N1711	See Index	50	50	1.0	70M	25p	10n	75	800m		175 J	TO-39
35	2N1711S	Space Power	50	50	1.0	70M	25p	10n	75	800m	4.5m	175 J	TO-39
-	2N1711S	Motorola	50	50	1.0	70M	25p	10n	75	800m	4.5m	175 J	TO-39
-	2N956	See Index	50	50	1.0	70M		10n	75	500m		175 J	TO-18
-	NB212EX	Natl Semi	50	58	500m	50M	3.5p	500n	55	600m		150 J	TO-92
-	NB212FX	Natl Semi	50	58	500m	50M	3.5p	500n	55	600m		150 J	TO-92
40	NB212XX	Natl Semi	50	58	500m	50M	3.5p	500n	55	600m		150 J	TO-92
-	NB212YX	Natl Semi	50	58	500m	50M	3.5p	500n	55	600m		150 J	TO-92
-	HSE411	Hybrid Semi	50	60		60M		100n	60	310m	3.1m	125 J	TO-92
-	2N4409	See Index	50	60	100m	60M	12p	10n	80	625m	5.0m	150 S	TO-92
-	GES929	CrimsonSemi	50	60	100m	90M		10n	70	360m	3.6m	150 J	TO-92
45	TEC9014A	ToshibaCorp	50	60	150m	150M	2.0p	50n	60	625m	5.0m	150 J	TO-92
-	2SC2000L	NECElecInc	50	60	200m	70M	3.7p	100n	60	600m	4.8m	150 J	TO-92
-	A5T4409	SemiconTech	50	60	250m	60M		10n	80	625m	5.0m	150 S	TO-92var
-	2SC1213A	Hitachi Ltd	50	60	500m					400m			TO-92
-	2SC1214	Hitachi Ltd	50	60	500m					600m			TO-92
50	2SC1213AK	Hitachi Ltd	50	60	500m	120M	7.0p	500n	50	400m		150 J	TO-92
-	2SD639	Matsumita	50	60	1.0			100n	60	600m	5.4m	135 J	SIP
-	2N5309	See Index	50	66	100m			10n	70	330m	3.3m	150 S	TO-98
-	2SC2458	ToshibaCorp	50	70	150m	80M	2.0p	100n	50	200m	2.0m	125 J	SPAK
-	2SC2712	ToshibaCorp	50	70	150m	80M	2.0p	100n	60	150m	1.5m	125 J	SOT-89
55	2SC2550	ToshibaCorp	50	70	200m	150M	3.0p	100n	60	300m	2.0m	175 J	TO-92
-	2N2390	CrimsonSemi	50	70	500m	70M	25p	10n	75	450m	2.5m	175 J	Macro-T
-	2N2390	Space Power	50	70	500m	70M	25p	10n	75	450m	2.5m	175 J	Macro-T
-	2N2390	Hi-Tron	50	70	500m	70M	25p	10n	75	450m	2.5m	175 J	Macro-T
-	2SC503	Semi Inc	50	70	600m	150M	13p	.50u	60	800m	5.6m	175 J	TO-39
60	2SC503	Advncd Semi	50	70	600m	150M	13p	.50u	60	800m	5.6m	175 J	TO-39
-	2SC503	ToshibaCorp	50	70	600m	150M	13p	.50u	60	800m	5.6m	175 J	TO-39
-	2SC498	See Index	50	70	800m	80.M	30p	1.0u	80	600m	5.0m	150 J	TO-39
-	2SC2655	ToshibaCorp	50	70	2.0	100M	30p	1.0u	50	900m	7.2m	150 J	TO-92
65	2N2645	See Index	50	75		50M	25p	10n	75	500m	2.8m	175 J	TO-18
-	SA2719	SemiconTech	50	75		150M	3p	2n	60	300m	2.0m	150 J	TO-78
-	SA2720	SemiconTech	50	75		150M	3p	2n	60	300m	2.0m	150 J	TO-78
-	SA2721	SemiconTech	50	75		150M	3p	2n	60	300m	2.0m	150 J	TO-78
-	2N2049	See Index	50	75	500m	50M	25p	10n	75	800m	4.5m	175 J	TO-5
-	MPS3404	SprgueElec	50	75	500m	100M		100n	50	560m	4.4m	150 J	TO-92var
70	MPS3404	Motorola	50	75	500m	100M		100n	50	560m	4.4m	150 J	TO-92var
-	MPS3416	Solid StInc	50	75	500m	100M		100n	50	360m	3.3m	150 J	TO-92
-	MPS3416	Motorola	50	75	500m	100M		100n	50	360m	3.3m	150 J	TO-92
-	MPS3416	SprgueElec	50	75	500m	100M		100n	50	360m	3.3m	150 J	TO-92
75	2N3404	See Index	50	75	500m	100M	10p	100n	50	620m	4.4m	150 J	TO-92
-	2N3416	See Index	50	75	500m	100M	10p	100n	50	620m	2.6m	150 J	TO-92
-	GES3416	GE Solid St	50	75	500m	120M		100n	50	360m	5.0m	150 J	TO-92
-	BFY46	See Index	50	75	1.0	70M	25p	10n	75	800m	4.5m	175 J	TO-5
-	BSY46	Hybrid Semi	50	80		50M	20p	10n	80	800m	4.5m	175 J	TO-5
-	BSY46	NthAmerSemi	50	80		50M	20p	10n	80	800m	4.5m	175 J	TO-5
80	BSY44	Micro Elecs	50	80		60.M	25p	10n	75	800m	4.5m	175 J	TO-5
-	BSY44	Hybrid Semi	50	80		60.M	25p	10n	75	800m	4.5m	175 J	TO-5
-	BSY44	NthAmerSemi	50	80		60.M	25p	10n	75	800m	4.5m	175 J	TO-5
-	2N543	See Index	50	80	25m	10M	20p	500n	50	200m	1.2m	175 S	TO-5
85	2N543A	See Index	50	80	25m	10M	8.0p	500n	50	200m	1.2m	175 S	TO-5
-	2N2511	See Index	50	80	200m	45M	6.0p	5.0n	80	360m		175 C	TO-18
-	2N2254	CrimsonSemi	50	80	500m	60M	8.0p	10n	45	500m	2.8m	175 S	TO-18
-	2N2254	SemiconTech	50	80	500m	60M	8.0p	10n	45	500m	2.8m	175 S	TO-18
-	2N2254	Space Power	50	80	500m	60M	8.0p	10n	45	500m	2.8m	175 S	TO-18
90	2SC634A	Solid StInc	50	82	200m	112M	7.0p	200n	50	250m	3.3m	100 J	TO-92var
-	2SC1364	Solid StInc	50	82	200m	140M	4.5p	200n	50	250m	3.3m	100 J	TO-92
-	NB212EG	Natl Semi	50	85	500m	50M	3.5p	500n	55	600m		150 J	TO-92
-	NB212FG	Natl Semi	50	85	500m	50M	3.5p	500n	55	600			