

# LOW-POWER SILICON NPN

Item Number	Part Number	Manufacturer	V <sub>(BR)CEO</sub> (V)	h <sub>FE</sub>	I <sub>C</sub> Max (A)	f <sub>T</sub> (Hz)	C <sub>obo</sub> Max (F)	I <sub>CBO</sub> Max (A)	V <sub>(BR)CBO</sub> (V)	P <sub>D</sub> Max (W)	Derate at (W/°C)	T <sub>Oper</sub> Max (°C)	Package Style
<b>V(BR)CEO &gt;= 70 V, (Cont'd)</b>													
-	MPS-A06	Rohm Co Ltd	80	50	500m	50M		100n					TO-92
-	PMBTA56	PhilipsElec	80	50	500m	50M		100n	80	300m		150 J	SOT-23
-	PMBTA56	AmperexElec	80	50	500m	50M		100n	80	300m		150 J	SOT-23
-	FMMT-A06	FerrantiLtd	80	50	500m	100M		100n	80	350m		175	TO-236
5	FMMTA06	FerrantiLtd	80	50	500m	100M		100n	80	350m	1.3m	175 A	SOT-89
-	MMBTA06	SprgueElec	80	50	500m	100M		100n	80	225m	1.8m	150 J	SOT-23
-	MMBTA06	Natl Semi	80	50	500m	100M		100n	80	225m	1.8m	150 J	SOT-23
-	MMBTA06	Motorola	80	50	500m	100M		100n	80	225m	1.8m	150 J	SOT-23
-	MPSA06	See Index	80	50	500m	100M		100n	80	625m	5.0m	150 J	TO-226AA
10	PMBTA06	PhilipsElec	80	50	500m	100M		100n	80	300m		150 J	SOT-23
-	PMBTA06	AmperexElec	80	50	500m	100M		100n	80	300m		150 J	SOT-23
-	SMBTA06	Siemens Akt	80	50	500m	100M	12p	100n	80	330m		150 J	SOT-89
-	BC538	See Index	80	50	1.0	100M	15p	100n	80	625m	5.0m	150 J	TO-92
-	BFT29	See Index	80	50	1.0	100M	10p	100n	90	360m	2.0m	175 A	TO-18
15	TP5858	SprgueElec	80	50	1.0	100M	15p	100n	80			150 J	TO-226
-	2N5858	See Index	80	50	1.0	100M		100n	80	750m	6.8m	135 S	TO-105
-	BFR39	NthAmerSemi	80	50	1.0	150M	6.5p	100n	90	800m	6.4m	150 S	TO-92
-	BFR39	Mistral SpA	80	50	1.0	150M	6.5p	100n	90	800m	6.4m	150 S	TO-92
-	BFR39	Micro Elecs	80	50	1.0	150M	6.5p	100n	90	800m	6.4m	150 S	TO-92
20	2SD666	Hitachi Ltd	80	60	50m	140M				900m			TO-92
-	2N4410	See Index	80	60	100m	60M		10n	120	625m	5.0m	150 S	TO-92
-	BSX21	See Index	80	60	100m	160M		200n	120	300m	2.0m	175 J	TO-18
-	AS74410	SemiconTech	80	60	250m	60M		10n	120	625m	5.0m	150 S	TO-92var
-	BC447A	ITTSemIntr	80	60	300m	100M		100n	80	625m	5.0m	150 J	TO-226AA
25	BC447A	Motorola	80	60	300m	100M		100n	80	625m	5.0m	150 J	TO-226AA
-	BC489	See Index	80	60	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-226AA
-	BC489-18	Motorola	80	60	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-18
-	BC489-5	Motorola	80	60	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-5
-	BC489L	Motorola	80	60	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-226AA
30	BC489L18	Motorola	80	60	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-18
-	BC489L5	Motorola	80	60	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-5
-	2SD667	Hitachi Ltd	80	60	1.0	140M				900m			TO-92
-	2SC309	MitsubiElec	80	65	500m	120M	6.0p	100n	120	570m	4.5m	150 J	TO-39
-	BC300-5	Micro Elecs	80	70				20n	120	850m	40m	175 J	TO-39
35	BC300-5	Semlab	80	70				20n	120	850m	40m	175 J	TO-39
-	BC110	See Index	80	70	50m	100M	5.0p	100n	80	300m	2.0m	175 J	TO-18
-	BCX27	Semi Inc	80	70	200m	100M	6.0p			350m			TO-92
-	BCX27	Advncd Semi	80	70	200m	100M	6.0p			350m			TO-92
-	BCX27	Micro Elecs	80	70	200m	100M	6.0p			350m			TO-92
40	2N2436	See Index	80	70	500m	90M	15p	1.0n	120	500m	2.8m	175 J	TO-46
-	2N2440	See Index	80	70	500m	90M	15p	1.0n	120	800m	4.5m	175 J	TO-5
-	2SC497	See Index	80	70	800m	80.M	30p	1.0u	100	600m	5.0m	150 J	TO-39
-	2SC3328	ToshibaCorp	80	70	2.0	100M	30p	1.0u	80	900m	7.2m	150 J	MicroTO-92
45	BSY45	Hybrid Semi	80	80	50.M		15p	10n	120	800m	4.5m	175 J	TO-5
-	BSY45	NthAmerSemi	80	80	50.M		15p	10n	120	800m	4.5m	175 J	TO-5
-	2N1574	See Index	80	80	50m		10p	1.0u	125	600m	4.0m	175 S	TO-5
-	2N740	See Index	80	80	50m		10p	1.0u	125	500m	3.3m	175 S	TO-18
-	2N2519	See Index	80	80	50m	100M	6.0p	5.0n	125	400m	2.2m	175 S	TO-46
-	2N740A	See Index	80	80	50m	100M	6.0p	5.0n	125	500m	2.8m	175 S	TO-18
50	2SC959	Solid StInc	80	80	700m	50M	50p	3.0u	120	700m	5.6m	150 J	TO-5
-	2SC959	Semi Inc	80	80	700m	50M	50p	3.0u	120	700m	5.6m	150 J	TO-5
-	2SC959	Advncd Semi	80	80	700m	50M	50p	3.0u	120	700m	5.6m	150 J	TO-5
-	2N3019	See Index	80	80	1.0	100M	12p	10n	140	800m	4.6m	175 J	TO-39
-	2N3019S	Space Power	80	80	1.0	100M	12p	10n	140	800m	4.5m	175 J	TO-39
55	2N3019S	Motorola	80	80	1.0	100M	12p	10n	140	800m	4.5m	175 J	TO-39
-	2N3057A	See Index	80	80	1	100M	12p	.01u	140	400m	2.3m	175 J	TO-46
-	BC447B	ITTSemIntr	80	90	300m	100M		100n	80	625m	5.0m	150 J	TO-226AA
-	BC447B	Motorola	80	90	300m	100M		100n	80	625m	5.0m	150 J	TO-226AA
-	BSY56	See Index	80	100	500m	100M		10n	120	800m		175 J	TO-39
60	MPS8099	See Index	80	100	500m	100M	6.0p	100n	80	350m	2.8m	150 J	TO-226AA
-	TP3700	SprgueElec	80	100	800m	100M	12p	10n	140				TO-226
-	BC489A	Motorola	80	100	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-226AA
-	BC489A18	Motorola	80	100	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-18
-	BC489A5	Motorola	80	100	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-5
65	2N3700	See Index	80	100	1.0	100M		.01u	140	500m		175 J	TO-18
-	2N4943	See Index	80	100	1	150M	12p	.01u	120	800m	4.5m	175 S	TO-5
-	2N2849	See Index	80	100	3.0	30M	125p	100n	100	850m	5.0m	175 S	TO-52var
-	BSX64-10	PhilipsElec	80	100	3.0	70M		100n		875m	5.0m	175 J	TO-39
-	BSX64-10	NthAmerSemi	80	100	3.0	70M		100n		875m	5.0m	175 J	TO-39
70	BFY14	NthAmerSemi	80	105	250m	180M	4.0p	.02u	100	700m	4.5m	175 J	TO-5
-	2SD780A	NECElecsInc	80	110	300m	140M	7.0p	100n	80	200m		150 J	SOT-23
-	2SD780A	NEC Corp JA	80	110	300m	140M	7.0p	100n	80	200m		150 J	SOT-23
-	BC300-6	Semlab	80	120				20n	120	850m	40m	175 J	TO-39
75	BC300-6	Micro Elecs	80	120				20n	120	850m	40m	175 J	TO-39
-	BSR42	PhilipsElec	80	120	1.0m	100M			90	1.0			N/A
-	BSR42	AmperexElec	80	120	1.0m	100M			90	1.0			N/A
-	KT215V1	V/O Electro	80	120	40m	5.0M		0.1u		25m		125 J	N/A
-	2SC1382	Solid StInc	80	120	750m	100M	20p	500n	80	800m		150 J	TO-126var
-	2SC1627A	ToshibaCorp	80	130	400m	100M	10p	100n	80	800m	6.4m	150 J	MicroTO-92
80	2SD1312L	NEC Corp JA	80	135	1.0	120M	13p	100n	120	1.0		150 J	SPAKvar
-	2SC1627O	Indust Mexi	80	140	300m	100M	14p		80	600m			TO-92
-	2SC1627A-O	Indust Mexi	80	140	400m	100M	14p		80	800m			TO-92
-	2SC2882O	ToshibaCorp	80	140	400m	100M	10p	100n	80	500m	4.0m	150 J	SOT-89
85	2SC1008A	NEC Corp JA	80	140	700m	70M	15p	100n	100	800m	6.4m	150 J	TO-9
-	2SC3328O	Indust Mexi	80	140	2.0	80M	45p		80	900m			TO-92
-	MPSH05	See Index	80	150	100m	180M		50n	80	300m	2.7m	135 J	TO-92
-	2SC2274K	Sanyo Elect	80	150	500m	120M	5.0p	1.0u	100	500m		125 J	TO-92
-	BC489B	Motorola	80	160	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-226AA
-	BC489B18	Motorola	80	160	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-18
90	BC489B5	Motorola	80	160	1.0		7.0p	100n	80	625m	5.0m	150 J	TO-5
-	2SC2003M	NECElecsInc	80	180	300m	140M	7.0p	100n	80	600m		150 J	TO-92
-	2SC2003	NEC Corp JA	80	200	300m	50M	7.0p	100n	80	600m	4.8m	150 J	TO-92
-	2SC2003												