

# 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<sub>(BR)CEO</sub> ≥ 200 V, (Cont'd)</b>													
-	PN3440	PhilipsElec	250	40	1.0	70M	2.0p	100n	300	625m		150 J	TO-92
-	BFN22	Siemens Akt	250	50	20m	60M	0.8p	100n	250	150m		150 J	TO-236
-	BF622	See Index	250	50	20m	60M		100n	250	1.0	8.0m	150 J	SOT-89
-	BF422S	Telefunken	250	50	25m	60M				830m		150 J	SOT-54b
5	PE422	Sid Micro	250	50	25m	60M		100n	250	830m		135 J	TO-237AA
-	S922TS	Telefunken	250	50	25m	60M		100n	250	460m		150 J	TO-92
-	BF822S	Telefunken	250	50	25m	90M		10n	250	335m		150 J	SOT-23
-	S2057	ToshibaCorp	250	50	50m	100M		100n	250	1.6	14m	150 J	TO-202
-	2SC3333	ToshibaCorp	250	50	50m	100M		1.0u	250	600m	5.2m	150 J	TO-92
10	2SC3334	ToshibaCorp	250	50	50m	100M		1.0u	250	900m	7.8m	150 J	TO-92
-	BF822	PhilipsElec	250	50	100m	60M		10n	250	310m		150 J	SOT-23
-	BF822	AmperexElec	250	50	100m	60M		10n	250	310m		150 J	SOT-23
-	BSS72	See Index	250	50	500m	50M	3.5p	50n	250	500m	2.8m	175 J	TO-206AA
-	BF422	See Index	250	50	500m	60M		10n	250	800m	6.6	150 J	TO-226AA
15	PE155	Sid Micro	250	60	100m	60M				830m		150 J	TO-92
-	2SC3999	NEC Corp JA	250	60	100m	200M	3.5p	100n	300	750m		150 J	TO-92
-	2SC1861	NEC Corp JA	250	60	2.0			10u	300	12	.10	175 J	TO-205AD
-	2SC3249B	MitsubiElec	250	70	100m	80M	3.5p	1.0u	300	900m		150 J	MicroTO-92
-	2SC3249C	MitsubiElec	250	110	100m	80M	3.5p	1.0u	300	900m		150 J	MicroTO-92
20	PE155S	Sid Micro	250	130	100m	60m	6.0p	100n	250	830m		135 J	TO-237AA
-	BST40	AmperexElec	250	160	1.0	15M		1.0u	300	1.0		150 J	SOT-89
-	BST40	PhilipsElec	250	160	1.0	15M		1.0u	300	1.0		150 J	SOT-89
-	2SC3249D	MitsubiElec	250	180	100m	80M	3.5p	1.0u	300	900m		150 J	MicroTO-92
-	PE155A	Sid Micro	250	220	100m	60m	6.0p	100n	250	830m		135 J	TO-237AA
25	2SC3249E	MitsubiElec	250	230	100m	80M	3.5p	1.0u	300	900m		150 J	MicroTO-92
-	PE155B	Sid Micro	250	400	100m	60m	6.0p	100n	250	830m		135 J	TO-237AA
-	TRS275	See Index	275	22		50M	40p	3.0u	275	600m	4.0m	175 J	TO-5
-	SL308	Semi Ltd	275	25	100m	70M	5.0p	100n	300	800m		150 J	TO-39
-	BF299	See Index	300	10	100m	95M		50m	300	625m	5.0m	150 S	TO-92var
30	BF485	PhilipsElec	300	20	50m	110		20n	350	830m		150 J	SOT-54b
-	BF485	AmperexElec	300	20	50m	110		20n	350	830m		150 J	SOT-54b
-	2SC2068	ToshibaCorp	300	20	50m	95M	4.0p	1.0u	300	1.5	13m	150 J	N/A
-	BF889	ThmsnCSFEFC	300	20	200m	130M		50n	300	800m	6.4m	175 A	TO-92
35	BF889	NthAmerSemi	300	20	200m	130M		50n	300	800m	6.4m	175 A	TO-92
-	BF659	CentralSemi	300	25	100m	90M		50n	300	7.0	5.7m	175 J	TO-39
-	FMNT-A42	FerrantiLtd	300	25	200m	50M	6.0p	100n	300	300m		175	SOT-89
-	FMNT-A42R	FerrantiLtd	300	25	200m	50M	6.0p	100n	300	300m	2.0m	175 J	SOT-89
40	BFT59	See Index	300	25	200m	110M	5.5p	50n	300	360m	2.1m	175 J	TO-18
-	PBF259	Motorola	300	25	500m	40M	3.0p	50n	300	625m	5.0m	150 J	TO-226AA
-	PBF259R	Motorola	300	25	500m	40M	3.0p	50n	300	625m	5.0m	150 J	TO-226AA
-	BFP25	Siemens Akt	300	25	500m	50M		100n	300	625m		150 J	TO-92
-	PMBTA42	AmperexElec	300	25	500m	50M		100n	300	310m		150 J	SOT-23
45	PMBTA42	PhilipsElec	300	25	500m	50M		100n	300	310m		150 J	SOT-23
-	TRS301	See Index	300	30		50M	40p	2.0u	300	600m	4.0m	175 J	TO-5
-	2SC2482	ToshibaCorp	300	30	100m	50M	3.0p	1.0u	300	900m	7.8m	150 J	TO-92
-	2SC2551	ToshibaCorp	300	30	100m	50M	3.0p	100n	300	400m	3.2m	150 J	TO-92
-	S1298	ToshibaCorp	300	30	100m	70M	3.0p	10u	300	1.5	13m	150 J	TO-202AA
-	2SC2610	Hitachi Ltd	300	30	100m	80M	4.0p	1.0u	300	800m	6.4m	150 J	TO-92var
50	MST30S	SemiconTech	300	30	200m	40M	8.0p	2.0u	300	800m	5.3m	175 J	TO-5
-	MST30S	Hybrid Semi	300	30	200m	40M	8.0p	2.0u	300	800m	5.3m	175 J	TO-5
-	BF417	NthAmerSemi	300	30	200m	70M		50n	300	1.2	10m	150 J	TO-126
-	BF420L	Siemens Akt	300	30	500m	70	5p	100n	300	625m	5m	150 J	TO-92
55	2N6516	See Index	300	30	500m	40M	6.0p	50n	300	625m	5.0m	150 S	TO-92
-	BSS73	Semelab	300	35	500m	50M	3.5p	50n	300	500m	2.8m	175 J	TO-206AA
-	BSS73	NthAmerSemi	300	35	500m	50M	3.5p	50n	300	500m	2.8m	175 J	TO-206AA
-	BSS73	Motorola	300	35	500m	50M	3.5p	50n	300	500m	2.8m	175 J	TO-206AA
-	ESM642	ThmsnCSFEFC	300	40		50M				625m		150 J	TO-92
60	TMPTA42	SprgueElec	300	40	20m	50M	3.0p	100n	300	350m		150 J	TO-236
-	BFN20	Siemens Akt	300	40	50m	100M	0.8p		300	1.0		150 J	SOT-89
-	2SC505	Advncd Semi	300	40	100m	60M	20p	1.0u	300	600m	5.3m	175 J	TO-39
-	2SC505	ToshibaCorp	300	40	100m	60M	20p	1.0u	300	600m	5.3m	175 J	TO-39
-	2SC505	Semi Inc	300	40	100m	60M	20p	1.0u	300	600m	5.3m	175 J	TO-39
65	BC100	NthAmerSemi	300	40	150m	10M		.06u	350	590m	4.5m	175 J	TO-5
-	FMNTA42	FerrantiLtd	300	40	200m	50M		100n	300	300m	2.3m	175 J	SOT-89
-	BFN26	Siemens Akt	300	40	200m	70M	1.5p		300	360m		150 J	TO-236
-	SOR642	ThmsnCSFEFC	300	40	300m	50M		100n	300	310m	2.2m	150 J	TO-236
-	SO842	ThmsnCSFEFC	300	40	300m	50M		100n	300	310m	2.2m	150 J	TO-236
-	MPS-A42	GE Solid St	300	40	500m							150 J	TO-92
70	BF393	See Index	300	40	500m	50M		100n	300	625m	5.0m	175 J	TO-226AA
-	BF393Q	FerrantiLtd	300	40	500m	50M		100n	300	625m		175 J	TO-92var
-	BF642	Mistral SpA	300	40	500m	50M	3.0p	100m	300	625m	5.0m	150 J	TO-92
-	BF642W	Mistral SpA	300	40	500m	50M	3.0p	100m	300	900m	7.2m	150 J	TO-237var
75	BF642W	ThmsnCSFEFC	300	40	500m	50M	3.0p	100m	300	900m	7.2m	150 J	TO-237var
-	BF642W3	Mistral SpA	300	40	500m	50M	3.0p	100m	300	900m	7.2m	150 J	TO-237var
-	MMBTA42	SprgueElec	300	40	500m	50M		100n	300	225m	1.8m	150 J	SOT-23
-	MMBTA42	Motorola	300	40	500m	50M		100n	300	225m	1.8m	150 J	SOT-23
-	MPSA42	See Index	300	40	500m	50M	3.0p	100n	300	625m	5.0m	175 J	TO-226AA
-	MPSA42Q	FerrantiLtd	300	40	500m	50M	6.0p	100n	300	680m		175 J	TO-92var
80	SMBTA42	Siemens Akt	300	40	500m	50M	4.0p		300	360m		150 J	TO-236
-	BF420	See Index	300	50	25m	60M		10n	300	800m	6.6m	150 J	TO-226AA
-	BF420S	Telefunken	300	50	25m	60M				830m		150 J	SOT-54b
-	BF420S	NthAmerSemi	300	50	25m	60M				830m		150 J	SOT-54b
85	S920TS	Telefunken	300	50	25m	60M		100n	300	460m		150 J	TO-92
-	BF820S	Telefunken	300	50	25m	90M		10n	300	335m		150 J	SOT-23
-	2N6431	See Index	300	50	50m	50M		100n	300	500m	2.8m	175 S	TO-206AA
-	BF620	AmperexElec	300	50	50m	60M		10n	300	1.0		150 J	SOT-89
-	BF620	PhilipsElec	300	50	50m	60M		10n	300	1.0		150 J	SOT-89
-	BF820	PhilipsElec	300	50	50m	60M		10n	300	310m		150 J	SOT-89
90	BF820	AmperexElec	300	50	50m	60M		10n	300	310m		150 J	SOT-89
-	S2057A	ToshibaCorp	300	50	50m	100M		100n	300	1.6	14m	150 J	TO-202
-	BF717	NthAmerSemi	300	50	100m	60M		50n	300	2.0	16m	150 J	TO-202AA
-	2SC1748	NEC											