

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 ≥ 30 V, (Cont'd)													
-	2N2523	See Index	45	60	30m	70M	6.0p	2.0n	60	400m	2.2m	200 S	TO-46
-	MPS929	Motorola	45	60	100m	30M	8.0p	10n	45	625m	5.0m	150 J	TO-226AA
-	MPS930	Solid StInc	45	60	100m	30M	8.0p	10n	45	625m	5.0m	150 J	TO-92
-	MPS930	Motorola	45	60	100m	30M	8.0p	10n	45	625m	5.0m	150 J	TO-92
5	BC485	See Index	45	60	1.0		7.0p	100n	45	625m	5.0m	150 J	TO-226AA
-	BC485-18	Motorola	45	60	1.0		7.0p	100n	45	625m	5.0m	150 J	TO-18
-	BC485-5	Motorola	45	60	1.0		7.0p	100n	45	625m	5.0m	150 J	TO-5
-	BC485L	Natl Semi	45	60	1.0			100n	45	625m	5.0m	150 J	TO-226AA
-	BC485L18	Motorola	45	60	1.0			100n	45	625m	5.0m	150 J	TO-18
-	BC485L5	Motorola	45	60	1.0			100n	45	625m	5.0m	150 J	TO-5
10	BC337-10	Natl Semi	45	63	800m			100n	45	625m	5.4m	150 J	TO-92
-	BC337-10	Micro Elecs	45	63	800m			100n	45	625m	5.4m	150 J	TO-92
-	BC337-10	Comset Semi	45	63	800m			100n	45	625m	5.4m	150 J	TO-92
-	2N3046	See Index	45	65	30m	30M	8.0p	10n	45	250m	1.6m	175 S	TO-89
-	2N3047	See Index	45	65	30m	30M	8.0p	10n	45	250m	1.6m	175 S	TO-89
-	2N3048	See Index	45	65	30m	30M	8.0p	10n	45	250m	1.6m	175 S	TO-89
-	2N2639	See Index	45	65	30m	31M	8.0p	10n	45	300m	2.0m	175 S	TO-77
-	2N2640	See Index	45	65	30m	31M	8.0p	10n	45	300m	2.0m	175 S	TO-77
-	2N2641	See Index	45	65	30m	31M	8.0p	10n	45	300m	2.0m	175 S	TO-77
-	2SC828A	See Index	45	65	50m			100n	45	250m	2.5m	125 J	TO-92
-	2S103	See Index	45	65	50m	135M	5.0p	.25u	60	400m	2.6m	175 A	TO-18
-	BC302-5	Mistral SpA	45	70				20n	60	850m	40m	175 J	TO-39
-	BC302-5	Micro Elecs	45	70				20n	60	850m	40m	175 J	TO-39
-	BC302-5	Semlab	45	70				20n	60	850m	40m	175 J	TO-39
25	MT4101	Micro Elecs	45	70		60M	3.5p	10n	60	100m	800u	150 J	Radial
-	PE210D	Pid Micro	45	70	50m			100n	50	500m		135 J	TO-92
-	4101	Advncd Semi	45	70	100m	150M	3.5p		60	200m			TO-106
-	4101	Semi Inc	45	70	100m	150M	3.5p		60	200m			TO-106
-	2N2434	See Index	45	70	1.0	90M	20p	1.0n	75	500m	2.8m	175 J	TO-46
-	2N336A	See Index	45	75	25m	15M	7.0p	500n	45	500m		175 J	TO-5
-	2N760	See Index	45	75	100m	50M	8.0p	200n	45	500m	2.8m	175 A	TO-18
-	2N841	See Index	45	80	50m	40M	15p	1.0u	45	300m	3.0m	175 S	TO-18
-	2SC881	Semi Inc	45	80	200m			100n	60	400m		150 J	TO-92var
-	2SC881	Advncd Semi	45	80	200m			100n	60	400m		150 J	TO-92var
-	2SC881	Solid StInc	45	80	200m			100n	60	400m		150 J	TO-92var
-	2N3587	See Index	45	80	500m	80M	8.0p	10n	60	300m	1.7m	175 S	TO-77
-	JC501O	ITT SemiIntr	45	90		150M	6.0p	15n					TO-92
-	2S104	See Index	45	90	50m	150M	5.0p	250n	60	400m	2.6m	175 A	TO-18
-	BC523	NthAmerSemi	45	100		100M	4.0p	2.0n	45	625m		150 J	TO-92
-	2N4880	See Index	45	100	10m	15M		.1n	45	300m	1.7m	175 S	TO-71
-	MMBT930	Motorola	45	100	30m	30M	8.0p	10n	45	225m	1.8m	150 J	SOT-23
-	BC332	Advncd Semi	45	100	30m	100M	3.0p			250m			TO-92
-	BC332	Semi Inc	45	100	30m	100M	3.0p			250m			TO-92
-	BC332	Micro Elecs	45	100	30m	100M	3.0p			250m			TO-92
45	2N2722	See Index	45	100	40m	100M	6.0p	1.0n	45	300m	1.7m	175 S	TO-77
-	MMCM930	Motorola	45	100	50m	60M	6.0p	10n	60	200m	1.1m	175 J	Micro-T
-	IT121	GE/Intersil	45	100	50m	180M	2.0p	1.0n	45	300m	2.3m	150 J	TO-78
-	IT122	GE/Intersil	45	100	50m	180M	2.0p	1.0n	45	300m	2.3m	150 J	TO-78
-	IT129	GE/Intersil	45	100	100m		3.0p	100p	45	400m	2.3m	150 J	TO-78
50	BFY85A	NthAmerSemi	45	100	100m	50M	8.0p	100u	45	210m	2.6m	125 J	TO-46
-	BFY86A	NthAmerSemi	45	100	100m	50M	8.0p	100u	45	210m	2.6m	125 J	TO-46
-	BC382L	Advncd Semi	45	100	100m	150M	5.0p			300m			TO-92
-	BC382L	Semi Inc	45	100	100m	150M	5.0p			300m			TO-92
-	BC382L	Micro Elecs	45	100	100m	150M	5.0p			300m			TO-92
55	BC385	Semi Inc	45	100	100m	150M	5.0p			300m			TO-92
-	BC385	Micro Elecs	45	100	100m	150M	5.0p			300m			TO-92
-	BC385	Advncd Semi	45	100	100m	150M	5.0p			300m			TO-92
-	SO930	ThmsnCSFEFC	45	100	0.2	30M	8p			200m	1.6m	150 J	TO-236
-	2SC904	Solid StInc	45	100	300m	150M	8.0p	1.0u	50	200m	2.0m	125 J	TO-92
-	ZTX331	FerrantiLtd	45	100	500m	30M	8.0p	200n	45	300m	2.3m	175 S	TO-92
-	BCW66F	See Index	45	100	500m	100M	8.0p	20n	75	350m		150 J	TO-236
-	BCW34	See Index	45	100	600m	150M	6.0p	10n	60	360m	2.7m	175	TO-18
-	BCW36	See Index	45	100	600m	150M	6.0p	10n	60	300m	2.4m	175	TO-18
65	BCW66	Semlab	45	100	0.8	100M	12p			650m	2.8m	150 J	TO-236
-	BCW66	FerrantiLtd	45	100	0.8	100M	12p			650m	2.8m	150 J	TO-236
-	BCW66	ThmsnCSFEFC	45	100	0.8	100M	12p			650m	2.8m	150 J	TO-236
-	BCW66R	ThmsnCSFEFC	45	100	0.8	100M	12p			650m	2.8m	150 J	TO-236
-	BCW66H	See Index	45	100	800m	100M	12p	20n	75	225m	1.8m	150 J	SOT-23
-	BCW74	See Index	45	100	800m	100M	12p			450m			TO-18
-	BCW78	See Index	45	100	800m	100M	12p			870m			TO-39
-	BCX74	See Index	45	100	800m	100M	12p			625m			TO-92
-	BCX74-16	Siemens Akt	45	100	800m	100M		20n		625m	5.0m	150 J	TO-92
-	BC337	See Index	45	100	800m	100M	15p	100n	50	625m	5.4m	150 J	TO-226AA
-	BC337-16	See Index	45	100	800m	100M	15p	100n	50	600m	5.0m	150 J	TO-226AA
75	BC337-16-18	Motorola	45	100	800m	100M	15p	100n	50	600m	5.0m	150 J	TO-18
-	BC337-16-5	Motorola	45	100	800m	100M	15p	100n	50	600m	5.0m	150 J	TO-5
-	BC337-18	Motorola	45	100	800m	100M	15p	100n	50	625m	5.4m	150 J	TO-18
-	BC337-5	Motorola	45	100	800m	100M	15p	100n	50	625m	5.4m	150 J	TO-5
-	BC485A	Natl Semi	45	100	1.0		7.0p	100n	45	625m	5.0m	150 J	TO-226AA
-	BC485A	Motorola	45	100	1.0		7.0p	100n	45	625m	5.0m	150 J	TO-226AA
-	BC485A18	Motorola	45	100	1.0		7.0p	100n	45	625m	5.0m	150 J	TO-18
-	BC485A5	Motorola	45	100	1.0		7.0p	100n	45	625m	5.0m	150 J	TO-5
85	BC847A	See Index	45	110	100m	100M	4.5p	15n	50	225m	1.8m	150 J	SOT-23
-	BC171A	See Index	45	110	100m	150M		15n	45	200m	3.0m	125 J	TO-92
-	BC107	See Index	45	110	200m	150M	4.5p	15n	50	600m	2.2	175 J	TO-206AA
-	BC107A	See Index	45	110	200m	150M		15n	50	600m	2.2m	175 J	TO-206AA
-	BC302-6	Mistral SpA	45	120				20n	60	850m	40m	175 J	TO-39
-	BC302-6	Micro Elecs	45	120				20n	60	850m	40m	175 J	TO-39
-	2N6442	See Index	45	120	10m	160M		5.0n	60	550m	3.1m	175 S	TO-78
90	2N6444	See Index	45	120	10m	160M		5.0n	60	550m	3.1m	175 S	TO-78
-	2N6446	See Index	45	120	10m	160M		5.0n	60	550m	3.1m	175 S	TO-78
-	2N6448	See Index	45	120	10m	160M		5.0n	60	550m	3.1m	175 S	TO-78
-	2N3907	See Index	45	120	30m	60M	6.0p						

DISCONTINUED PART NUMBERS

Part Number	Manufacturer	Part Number	Manufacturer	Part Number	Manufacturer	Part Number	Manufacturer	Part Number	Manufacturer
RTC-Compelc	SiliconTran	2N234A	CSR Indus	2N272	CSR Indus	PPC Product	Precsn Semi	Gnr/Elec/GE	Semtronics
2N175	Uni-Tran	PPC Product	Semtronics	2N273	CSR Indus	SiliconTran	Texas Instr	Texas Instr	Transitron
2N176	CSR Indus	SiliconTran	Solitron	2N274	CSR Indus	2N315B	Elec Trans	2N334	CSR Indus
Intl Diode	Motorola	2N235A	ITT Electr	2N277	RCA Corp/GE	GeneralInst	SiliconTran	Gnr/Elec/GE	Semtronics
PPC Product	SGS-Ates	PPC Product	Solitron	Delco Elecs	CSR Indus	2N316	CSR Indus	Southern	Texas Instr
SiliconTran	Solitron	2N235B	CSR Indus	Elcoma	Motorola	GeneralInst	IndustroTrn	Trans-Tek	Transitron
2N178	CSR Indus	PPC Product	SiliconTran	Motorola	PhilElecSON	2N316A	IndustroTrn	2N334A	CrimsonSemi
Motorola	PPC Product	2N236	SiliconTran	Mullard Ltd	RTC-Compelc	GeneralInst	CSR Indus	Gnr/Elec/GE	Semtronics
Semtronics	SiliconTran	2N236A	Solitron	PhilipsElec	Solitron	2N317	IndustroTrn	Texas Instr	Transitron
2N180	Solid Stinc	2N236B	Bendix Semi	SiliconTran	Uni-Tran	IndustroTrn	CSR Indus	2N335	CSR Indus
2N181	Motorola	2N237	Solitron	2N278	CSR Indus	2N317A	CSR Indus	Gnr/Elec/GE	Semtronics
2N182	CSR Indus	2N238	CSR Indus	Delco Elecs	Elec Trans	IndustroTrn	SiliconTran	Southern	Tadran Isr
2N183	CSR Indus	2N238A	Semtronics	Motorola	Elec Trans	2N317A	CSR Indus	Texas Instr	Trans-Tek
2N184	CSR Indus	2N239	Solitron	SiliconTran	Semtronics	IndustroTrn	SiliconTran	2N335A	Transitron
2N185	CSR Indus	2N240	CSR Indus	2N279	Uni-Tran	2N318	Texas Instr	Gnr/Elec/GE	CSR Indus
PPC Product	Precsn Semi	2N241A	Semtronics	2N280	CSR Indus	2N319	Texas Instr	Gnr/Elec/GE	Transitron
2N186	CSR Indus	2N242	Solitron	2N281	PhilElecSON	Gnr/Elec/GE	Motorola	2N335B	CSR Indus
2N186A	CSR Indus	2N243	CSR Indus	2N282	CSR Indus	Mazda Belvu	SiliconTran	Gnr/Elec/GE	Semtronics
2N187	CSR Indus	2N244	CSR Indus	2N283	PhilElecSON	2N320	CSR Indus	2N336	Tadran Isr
2N187A	CSR Indus	2N245	CSR Indus	2N284	PhilElecSON	GeneralInst	CSR Indus	Gnr/Elec/GE	CSR Indus
Gnr/Elec/GE	Semtronics	2N246	Semtronics	2N285	SiliconTran	IndustroTrn	CSR Indus	Gnr/Elec/GE	PPC Product
2N188	CSR Indus	2N247	CSR Indus	2N285A	CSR Indus	2N321	CSR Indus	Gnr/Elec/GE	Semtronics
2N188A	CSR Indus	2N248	CSR Indus	PPC Product	Semtronics	2N321	CSR Indus	Gnr/Elec/GE	Semtronics
Gnr/Elec/GE	PPC Product	2N249	CSR Indus	2N285B	Solitron	2N322	CSR Indus	Gnr/Elec/GE	Tadran Isr
2N189	CSR Indus	2N250	CSR Indus	PPC Product	Solitron	GeneralInst	CSR Indus	Gnr/Elec/GE	Transitron
Gnr/Elec/GE	Semtronics	2N251	SiliconTran	2N286	ITT Electr	IndustroTrn	CSR Indus	Gnr/Elec/GE	CSR Indus
2N190	CSR Indus	2N251A	Semtronics	2N287	Delco Elecs	Motorola	CSR Indus	Gnr/Elec/GE	PhilElecSON
Gnr/Elec/GE	Semtronics	2N252	CSR Indus	2N288	CSR Indus	2N323	CSR Indus	Gnr/Elec/GE	RTC-Compelc
2N191	CSR Indus	2N253	CSR Indus	2N289	CSR Indus	GeneralInst	CSR Indus	Gnr/Elec/GE	Texas Instr
Gnr/Elec/GE	PPC Product	2N254	CSR Indus	2N290	Solitron	IndustroTrn	Gnr/Elec/GE	Gnr/Elec/GE	Transitron
2N192	Precsn Semi	2N255	CSR Indus	2N291	Delco Elecs	Motorola	Mazda Belvu	2N337A	CSR Indus
2N193	CSR Indus	2N255A	SiliconTran	2N292	CSR Indus	2N324	SiliconTran	Gnr/Elec/GE	Semtronics
PPC Product	Precsn Semi	2N256	CSR Indus	2N292A	Gnr/Elec/GE	GeneralInst	CSR Indus	Gnr/Elec/GE	Semtronics
2N194	CSR Indus	2N256A	Semtronics	2N293	CSR Indus	IndustroTrn	CSR Indus	Gnr/Elec/GE	PPC Product
PPC Product	Precsn Semi	2N257	Semtronics	2N294	CSR Indus	Motorola	CSR Indus	Gnr/Elec/GE	Semtronics
2N194A	CSR Indus	2N257B	CSR Indus	2N295	CSR Indus	ThmsnCSFEFC	CSR Indus	2N338A	Transitron
PPC Product	Precsn Semi	2N257G	SiliconTran	2N296	Gnr/Elec/GE	CSR Indus	CSR Indus	Gnr/Elec/GE	CSR Indus
2N195	CSR Indus	2N258	Solitron	2N296	CSR Indus	2N325	CSR Indus	2N339	Precsn Semi
2N196	Transitron	2N259	CSR Indus	2N297	PPC Product	2N326	SiliconTran	2N339A	Transitron
2N197	Transitron	2N260	CSR Indus	2N297A	Intl Diode	2N327	SiliconTran	Semicon	CSR Indus
2N198	Transitron	2N260A	CSR Indus	2N298	CSR Indus	2N327A	Raytheon Co	2N340	CSR Indus
2N199	Transitron	2N261	CSR Indus	2N299	CSR Indus	Horizon	Texas Instr	2N340A	Transitron
2N200	Transitron	2N262	CSR Indus	2N300	CSR Indus	Precsn Semi	CSR Indus	CSR Indus	CrimsonSemi
2N204	Transitron	2N262A	CSR Indus	2N301	CSR Indus	Semicon	CSR Indus	2N341	CSR Indus
2N205	Transitron	2N263	CSR Indus	2N301B	CSR Indus	Horizon	CSR Indus	2N341A	Transitron
2N207	Transitron	2N263A	CSR Indus	2N301W	CSR Indus	Precsn Semi	CSR Indus	2N342	CSR Indus
Intl Diode	SiliconTran	2N264	CSR Indus	2N302	CSR Indus	CSR Indus	CSR Indus	2N342B	Transitron
2N207A	CSR Indus	2N265	CSR Indus	2N303	CSR Indus	2N328	CSR Indus	2N343	CrimsonSemi
2N207B	CSR Indus	2N266	CSR Indus	2N306	CSR Indus	2N328A	CSR Indus	2N343A	Texas Instr
2N211	SiliconTran	2N267	CSR Indus	2N307	CSR Indus	Horizon	CSR Indus	Semicon	Transitron
2N212	CSR Indus	2N268	CSR Indus	2N307A	CSR Indus	2N329	CSR Indus	2N344	CSR Indus
PPC Product	Precsn Semi	2N268A	CSR Indus	2N308	CSR Indus	2N329A	CSR Indus	2N345	CSR Indus
2N213	CSR Indus	2N269	CSR Indus	2N309	CSR Indus	Horizon	CSR Indus	2N346	CSR Indus
PPC Product	Precsn Semi	2N270	CSR Indus	2N310	CSR Indus	Precsn Semi	CSR Indus	2N347	CSR Indus
2N213A	CSR Indus	2N271	CSR Indus	2N311	CSR Indus	Semicon	CSR Indus	2N348	CSR Indus
2N214	CSR Indus	2N271A	CSR Indus	2N312	CSR Indus	Semicon	CSR Indus	2N349	CSR Indus
PPC Product	Precsn Semi			2N315	CSR Indus	2N330	CSR Indus	2N350	CSR Indus
2N214A	CSR Indus			2N315A	CSR Indus	2N330A	CSR Indus	2N351	CSR Indus
SiliconTran	PPC Product					Horizon	CSR Indus	Motorola	PPC Product
Great East	2N250A					2N331	CSR Indus	Precsn Semi	SiliconTran
CSR Indus	PPC Product					GeneralInst	CSR Indus	Motorola	Solitron
2N214MP	SiliconTran					Intl Diode	CSR Indus	CSR Indus	CSR Indus
2N215	Solitron					2N332	CSR Indus	CSR Indus	CSR Indus
Intl Diode	PPC Product					CSR Indus	CSR Indus	CSR Indus	CSR Indus
2N216	CSR Indus					2N333	CSR Indus	CSR Indus	CSR Indus
PPC Product	Precsn Semi					2N333A	CSR Indus	CSR Indus	CSR Indus
2N217	CSR Indus					2N333B	CSR Indus	CSR Indus	CSR Indus
New Jersey	RCA Corp/GE					2N333C	CSR Indus	CSR Indus	CSR Indus
SGS-Ates	ThmsnCSFEFC					2N333D	CSR Indus	CSR Indus	CSR Indus
2N217EQ	AmperexElec					2N333E	CSR Indus	CSR Indus	CSR Indus
2N218	CSR Indus					2N333F	CSR Indus	CSR Indus	CSR Indus
2N219	CSR Indus					2N333G	CSR Indus	CSR Indus	CSR Indus
2N220	CSR Indus					2N333H	CSR Indus	CSR Indus	CSR Indus
Semtronics	Semtronics					2N333I	CSR Indus	CSR Indus	CSR Indus
2N222	GeneralInst					2N333J	CSR Indus	CSR Indus	CSR Indus
2N223	CSR Indus					2N333K	CSR Indus	CSR Indus	CSR Indus
2N224	CSR Indus					2N333L	CSR Indus	CSR Indus	CSR Indus
2N225	CSR Indus					2N333M	CSR Indus	CSR Indus	CSR Indus
2N226	CSR Indus					2N333N	CSR Indus	CSR Indus	CSR Indus
2N227	CSR Indus					2N333O	CSR Indus	CSR Indus	CSR Indus
2N228	CSR Indus					2N333P	CSR Indus	CSR Indus	CSR Indus
PPC Product	Precsn Semi					2N333Q	CSR Indus	CSR Indus	CSR Indus
2N229	CSR Indus					2N333R	CSR Indus	CSR Indus	CSR Indus
PPC Product	Precsn Semi					2N333S	CSR Indus	CSR Indus	CSR Indus
2N230	CSR Indus					2N333T	CSR Indus	CSR Indus	CSR Indus
Mallory	CSR Indus					2N333U	CSR Indus	CSR Indus	CSR Indus
2N231	CSR Indus					2N333V	CSR Indus	CSR Indus	CSR Indus
GeneralInst	Semicon					2N333W	CSR Indus	CSR Indus	CSR Indus
2N232	SprgueElec					2N333X	CSR Indus	CSR Indus	CSR Indus
2N233	GeneralInst					2N333Y	CSR Indus	CSR Indus	CSR Indus
PPC Product	Precsn Semi					2N333Z	CSR Indus	CSR Indus	CSR Indus
2N233A	CSR Indus								
PPC Product	Precsn Semi								
2N234	Solitron								