

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)													
-	RN5816	Rohm Co Ltd	40	25	750m	120M	15p	100n	50				TO-92
-	RN5816	Rohm Corp	40	25	750m	120M	15p	100n	50				TO-92
-	RN5818	Rohm Co Ltd	40	25	750m	135M	15p	100n	50				TO-92
-	RN5818	Rohm Corp	40	25	750m	135M	15p	100n	50				TO-92
5	HSE125	Hybrid Semi	40	30		30M		500n	60	800m	6.4m	150 J	TO-5
-	HSE210	Hybrid Semi	40	30		30M		500n	60	500m	4.0m	150 J	TO-18
-	HSE171	Hybrid Semi	40	30		100M		1.0u	60	800m	6.4m	150 J	TO-5
-	2N1051	See Index	40	30	100m		7.0p	10n	60	500m	4.0m	175 S	TO-5
-	2N2480	See Index	40	30	500m	50M	20p	.05u	75	300m	1.7m	175 J	TO-77
10	2N2479	See Index	40	30	500m	150M	14p	4.0u	80	600m	4.0m	175 A	TO-5
-	BC136	See Index	40	30	600m		25p	50n	60	300m	3.0	125 J	TO-105
-	2N4237	See Index	40	30	1	1.0M	100p	100u	50	800m	4.5m	175 J	TO-5
-	BFR52	NthAmerSemi	40	30	1.0	50M	8.0p	50n	40	800m	6.4m	150 J	TO-92
-	BFR52	Semelab	40	30	1.0	50M	8.0p	50n	40	800m	6.4m	150 J	TO-92
15	UPT111	Unitrode	40	30	1.0	50M	50p	10u	60	850m	40m	175 J	TO-5
-	2N2868	See Index	40	30	1	50M	20p	.01u	60	800m	4.5m	175 J	TO-5
-	2N2909	See Index	40	30	1	50M	20p	.01u	60	400m	2.3m	175 J	TO-46
-	BCX33	NthAmerSemi	40	30	1.0	80M		100n	60	880m	5.9m	150 J	N/A
-	UPT211	Unitrode	40	30	2.0	70M	50p	10u	60	850m	40m	175 J	TO-5
20	2N1420A	See Index	40	35	1	60M	25p	.01u	60	800m	4.5m	175 J	TO-5
-	2N2531	See Index	40	36	25m	12M	3.0p	50n	45	150m	1.0m	175 S	TO-18
-	2N2534	See Index	40	39	25m	20M	3.0p	50n	45	150m	1.0m	175 S	TO-18
-	BC144	See Index	40	40		40M	25p	.02u	60	700m	4.0m	175 J	TO-5
25	SE8002	SemiconTech	40	40		40M	25p	.01u	80	870m	5.0m	175 J	TO-5
-	2N718	See Index	40	40		50M	35p	1.0u	60	400m	10m	175 J	TO-18
-	2N696	See Index	40	40		80M	20p	1.0u	60	600m	13m	175 J	TO-5
-	MMBT-A20	Motorola	40	40		125M	4.0p	100n	40	350m	2.8m	150 S	SOT-89
-	TMPTA20	SprgueElec	40	40	10m	125M	4.0p	100n	40	350m		150 J	TO-236
-	CX901	Semi Inc	40	40	100m	80M	3.5p			300m			TO-92
30	CX901	Advncd Semi	40	40	100m	80M	3.5p			300m			TO-92
-	FMMT-A20	FerrantiLtd	40	40	100m	125M	4.0p	100n		300m			TO-236
-	FMMTA20	FerrantiLtd	40	40	100m	125M	4.0p	100n		300m	1.3m	175 A	SOT-89
-	MMBTA20	See Index	40	40	100m	125M	4.0p	100n	40	225m	1.8m	150 J	SOT-23
-	MPSA20	See Index	40	40	100m	125M	4.0p	100n	40	350m	8.0m	150 J	TO-226AA
35	MPSK20	CrimsonSemi	40	40	100m	125M	4.0p	100n		300m	2.7m	135 J	TO-92
-	2S712	See Index	40	40	200m	5.0M		10u	40	600m	833u	100 A	TO-5
-	MPSA10	See Index	40	40	200m	125M	4.0p	100n		300m	2.7m	150 J	TO-92
-	KT503A	V/O Electro	40	40	300m	5.0M			40	500m	4.0m	150 J	TO-92
-	2N2396	See Index	40	40	300m	50M	30p	.01u	60	450m	2.6m	175 J	Macro-T
40	BC125A	CentralSemi	40	40	500m	40M	25p	50n	50	300m	3.0m	125 J	TO-105
-	PN3567	See Index	40	40	500m	60M		50n	80	600m	4.8m	150 J	TO-92
-	2N3567	See Index	40	40	500m	60M		50u	80	300m	3.0m	125 J	TO-105
-	BC340	See Index	40	40	500m	100M	6.5p			800m			TO-39
45	BC340-6	NthAmerSemi	40	40	500m	100M	10p	100n	40	800m	4.5m	175 J	TO-39
-	2N1959	See Index	40	40	500m	100M	14p	.50u	60	600m	4.0m	175 J	TO-5
-	2SC189	Elec Trans	40	40	500m	150M	9.0p	1.0u	60	600m	4.0m	175 J	TO-5
-	2SC189	RF Gain	40	40	500m	150M	9.0p	1.0u	60	600m	4.0m	175 J	TO-5
-	MPS3567	See Index	40	40	600m	60M	20p	50n	80	350m	2.8m	150 J	TO-226AA
-	2N3053L	Semelab	40	40	700m	100M				800m			TO-5
50	2221A	ITT Semilntr	40	40	0.8	150M		10n	75	625m		150 J	TO-92
-	TP3567	SprgueElec	40	40	800m	60M	20p	50u	80	300m			TO-226
-	2N730	See Index	40	40	1	40M	35p	1.0u	60	500m	3.3m	175 J	TO-18
-	BC140	See Index	40	40	1.0	50M	25p	100n	80	750m	4.6m	175 J	TO-205AD
55	BC140-6	See Index	40	40	1.0	50M	25p	100n	80	750m	5.0m	175 J	TO-39
-	BFW26	See Index	40	40	1	60M	25p	.01u	80	800m	4.5m	175 J	TO-5
-	BFY67A	Micro Elecs	40	40	1.0	60M		75n	60	700m	4.5m	175 J	TO-39
-	BFY67A	NthAmerSemi	40	40	1.0	60M		75n	60	700m	4.5m	175 J	TO-39
-	2N3110	See Index	40	40	1.0	60M		10u	80	800m		175 J	TO-39
-	2N1959A	See Index	40	40	1.0	100M	14p	200n	60	600m		175 J	TO-5
60	2N2853	See Index	40	40	3.0	30M	125p	100n	60	850m	5.0m	175 S	TO-52var
-	2N2855	See Index	40	40	3.0	30M	125p	100n	60	850m	5.0m	175 S	TO-52var
-	EN1711	See Index	40	50	70M	25p	50n	75	300m	3.0m	125 J	TO-105	
-	EN956	See Index	40	50	70M	25p	50n	75	220m	2.1m	125 J	TO-106	
65	TMPT3903	SprgueElec	40	50	10m	250M	4.0p	50n	60	350m		150 J	TO-236
-	MPS3903	Solid Stnc	40	50	200m	150M	4.0p	50n	60	625m	5.0m	150 J	TO-226AA
-	MPS3903	Natl Semi	40	50	200m	150M	4.0p	50n	60	625m	5.0m	150 J	TO-226AA
-	MPS3903	Motorola	40	50	200m	150M	4.0p	50n	60	625m	5.0m	150 J	TO-226AA
-	PMBT3903	PhilipsElec	40	50	200m	250M		50n	60	300m		150 J	SOT-23
-	PMBT3903	AmperexElec	40	50	200m	250M		50n	60	300m		150 J	SOT-23
70	PMBT3904	AmperexElec	40	50	200m	250M		50n	60	300m		150 J	SOT-23
-	PMBT3904	PhilipsElec	40	50	200m	250M		50n	60	300m		150 J	SOT-23
-	2N2480A	See Index	40	50	500m	50M	18p	.02u	80	300m	1.7m	175 J	TO-77
-	CX906	Semi Inc	40	50	500m	80M	8.0p			500m			TO-92
75	CX906	Advncd Semi	40	50	500m	80M	8.0p			500m			TO-92
-	PN2222A	See Index	40	50	600m	300M	8.0p	10n	75	625m		150 J	TO-92
-	BSV69	Comset Semi	40	50	1.0		10p	100u	45	800m	5.2m	175 J	TO-39
-	BSV69	NthAmerSemi	40	50	1.0		10p	100u	45	800m	5.2m	175 J	TO-39
-	BSY92	NthAmerSemi	40	60		50M	25p	100u	60	800m	4.5m	175 J	TO-39
-	BSY93	NthAmerSemi	40	60		50M	25p	100u	60	360m	2.1m	175 J	TO-18
80	TMPC1623	SprgueElec	40	60		100M		100n	50				N/A
-	2N5824	See Index	40	60	100m		4.0p	50n	50	500m	3.6m	150 J	TO-92
-	2SC1330	Semi Inc	40	60	100m	50M	6.0p			400m			TO-92
-	2SC1330	Advncd Semi	40	60	100m	50M	6.0p			400m			TO-92
85	TP5824	SprgueElec	40	60	100m	90M	4.0p	50n	50			150 J	TO-226
-	MMBC1623L3	SprgueElec	40	60	100m	150M		100n	50	225m	1.8m	150 J	SOT-23
-	MMBC1623L3	Samsung	40	60	100m	150M		100n	50	225m	1.8m	150 J	SOT-23
-	MMBC1623L3	Motorola	40	60	100m	150M		100n	50	225m	1.8m	150 J	SOT-23
-	2N5814	See Index	40	60	750m		15p	100n	50	500m	4.5m	135 J	TO-92
-	GES5814	GE Solid St	40	60	750m	125M		100n	50	500m	4.5m	150 J	TO-92
90	BCW90A	ThmsnCSFEFC	40	60	800m	80M	10p	30n	50	610m	4.8m	150 J	TO-92var
-	BCW90A	Mistral SpA	40	60	800m	80M	10p	30n	50	610m	4.8m	150 J	TO-92var
-	D33D24	SprgueElec	40	60	800m	80M	15p	100n	50	625m	4.5m	150 J	TO-98
-	D33D24	GE Solid St	40	60	800m	80M	15p	100n	50				

DISCONTINUED PART NUMBERS

Part Number Manufacturer	Manufacturer	Part Number Manufacturer	Manufacturer	Part Number Manufacturer	Manufacturer	Part Number Manufacturer	Manufacturer	Part Number Manufacturer	Manufacturer
2N3503	ThmsnCSFEFC	2N3549	CSR Indus	2N3577	Texas Instr	2N3608	ThomCSF Com	2N3634	CSR Indus
	Transitron		Natl Semi		TexsInstLtd		Dionics Inc		Natl Semi
	Carter Semi		NthAmerSemi		CSR Indus		GeneralInst		Tadran Isr
	CSR Indus		ThmsnCSFEFC		Natl Semi		Philco-Ford		ThmsnCSFEFC
	ITT SemiIntr		CSR Indus		Raytheon Co		Gnrl Micro		Transitron
	Motorola		NthAmerSemi		Semitronics		Philco-Ford		Motorola
	Natl Trans		ThmsnCSFEFC		Texas Instr		CSR Indus		FairchildSC
	Precsn Semi		PPC Product		TexsInstLtd		PPC Product		Natl Trans
	Semi Device		Tadran Isr		2N3578		SiliconTran		Sid St Dvcs
	Semitronics		2N3551		2N3579		Trans-Tek		Transitron
	TeledynSemi		Sensitron		GE/Intersil		CSR Indus		Motorola
	TexsInstLtd		Texas Instr		Siliconix		PPC Product		2N3635
			Transitron		2N3579		Trans-Tek		2N3636
			2N3552		2N3580		CSR Indus		FairchildSC
			Sensitron		2N3581		PPC Product		Natl Semi
			Texas Instr		2N3582		Transitron		Precsn Semi
			2N3554		2N3583		Philco-Ford		2N3637
			Sensitron		2N3584		SiliconTran		ThmsnCSFEFC
			Texas Instr		2N3585		Trans-Tek		CSR Indus
			2N3555		2N3586		CSR Indus		2N3638
			Sensitron		2N3587		Transitron		Carter Semi
			Texas Instr		2N3588		FerrantiLtd		CSR Indus
			2N3556		2N3589		IndustroTrn		FairchildSC
			Sensitron		2N3590		Sid St Dvcs		Horizon
			Texas Instr		2N3591		Philco-Ford		Philco-Ford
			2N3557		2N3592		Semitronics		Precsn Semi
			Sensitron		2N3593		Micro Elecs		PPC Product
			Texas Instr		2N3594		Raytheon Co		SemiconTech
			2N3558		2N3595		SemiconTech		SGS-Ates
			Sensitron		2N3596		SprgueElec		ThmsnCSFEFC
			Texas Instr		2N3597		ThmsnCSFEFC		Burns Towne
			2N3559		2N3600		Transitron		2N3639
			Sensitron		2N3601		FerrantiLtd		Carter Semi
			Texas Instr		2N3602		CSR Indus		CSR Indus
			2N3560		2N3603		Philco-Ford		FairchildSC
			Sensitron		2N3604		GnrlElec/GE		Horizon
			Texas Instr		2N3605		Philco-Ford		Micro Elecs
			2N3561		2N3606		Trans-Tek		Raytheon Co
			Sensitron		2N3607		SGS-Ates		SemiconTech
			Texas Instr		2N3608		Transitron		Sid St Dvcs
			2N3562		2N3609		Philco-Ford		TeledynSemi
			Sensitron		2N3610		Philco-Ford		ThmsnCSFEFC
			Texas Instr		2N3611		CSR Indus		Burns Towne
			2N3563		2N3612		PPC Product		Carter Tran
			Sensitron		2N3613		Trans-Tek		FairchildSC
			Texas Instr		2N3614		CSR Indus		Horizon
			2N3564		2N3615		Semitronics		Philco-Ford
			Sensitron		2N3616		SiliconTran		Precsn Semi
			Texas Instr		2N3617		Trans-Tek		PPC Product
			2N3565		2N3618		CSR Indus		Raytheon Co
			Sensitron		2N3619		Transitron		ThmsnCSFEFC
			Texas Instr		2N3620		Philco-Ford		Burns Towne
			2N3566		2N3621		CSR Indus		CSR Indus
			Sensitron		2N3622		Transitron		Horizon
			Texas Instr		2N3623		Philco-Ford		Philco-Ford
			2N3567		2N3624		Semitronics		Precsn Semi
			Sensitron		2N3625		SiliconTran		SGS-Ates
			Texas Instr		2N3626		Trans-Tek		SprgueElec
			2N3568		2N3627		CSR Indus		Burns Towne
			Sensitron		2N3628		Trans-Tek		Carter Tran
			Texas Instr		2N3629		CSR Indus		FairchildSC
			2N3569		2N3630		Philco-Ford		Micro Elecs
			Sensitron		2N3631		Raytheon Co		Raytheon Co
			Texas Instr		2N3632		SemiconTech		Sid St Dvcs
			2N3570		2N3633		Philco-Ford		TeledynSemi
			Sensitron		2N3634		Philco-Ford		ThmsnCSFEFC
			Texas Instr		2N3635		CSR Indus		Burns Towne
			2N3571		2N3636		Transitron		Carter Tran
			Sensitron		2N3637		Philco-Ford		FairchildSC
			Texas Instr		2N3638		Semitronics		Micro Elecs
			2N3572		2N3639		Transitron		Precsn Semi
			Sensitron		2N3640		Philco-Ford		SemiconTech
			Texas Instr		2N3641		Philco-Ford		Sid St Dvcs
			2N3573		2N3642		Semitronics		TeledynSemi
			Sensitron		2N3643		Philco-Ford		ThmsnCSFEFC
			Texas Instr		2N3644		CSR Indus		Burns Towne
			2N3574		2N3645		Transitron		Carter Tran
			Sensitron		2N3646		Philco-Ford		FairchildSC
			Texas Instr				PPC Product		Micro Elecs
			2N3575				Raytheon Co		Precsn Semi
			Sensitron				SemiconTech		Semi Device
			Texas Instr				SprgueElec		SGS-Ates
			2N3576				Philco-Ford		TeledynSemi
			Sensitron				CSR Indus		Burns Towne
			Texas Instr				Transitron		Carter Tran
			2N3577				Philco-Ford		FairchildSC
			Sensitron				CSR Indus		Micro Elecs
			Texas Instr				Transitron		Precsn Semi
			2N3578				Philco-Ford		SemiconTech
			Sensitron				CSR Indus		SGS-Ates
			Texas Instr				Transitron		TeledynSemi
			2N3579				Philco-Ford		Burns Towne
			Sensitron				CSR Indus		Carter Tran
			Texas Instr				Transitron		FairchildSC
			2N3580				Philco-Ford		Micro Elecs
			Sensitron				CSR Indus		Precsn Semi
			Texas Instr				Transitron		SemiconTech
			2N3581				Philco-Ford		SprgueElec
			Sensitron				CSR Indus		ThmsnCSFEFC
			Texas Instr				Transitron		Burns Towne
			2N3582				Philco-Ford		Carter Tran
			Sensitron				CSR Indus		FairchildSC
			Texas Instr				Transitron		Micro Elecs
			2N3583				Philco-Ford		Precsn Semi
			Sensitron				CSR Indus		SemiconTech
			Texas Instr				Transitron		SGS-Ates
			2N3584				Philco-Ford		TeledynSemi
			Sensitron				CSR Indus		Burns Towne
			Texas Instr				Transitron		Carter Tran
			2N3585				Philco-Ford		FairchildSC
			Sensitron				CSR Indus		Micro Elecs
			Texas Instr				Transitron		Precsn Semi
			2N3586				Philco-Ford		SemiconTech
			Sensitron				CSR Indus		SGS-Ates
			Texas Instr				Transitron		TeledynSemi
			2N3587				Philco-Ford		Burns Towne
			Sensitron				CSR Indus		Carter Tran
			Texas Instr				Transitron		FairchildSC
			2N3588				Philco-Ford		Micro Elecs
			Sensitron				CSR Indus		Precsn Semi
			Texas Instr				Transitron		SemiconTech
			2N3589				Philco-Ford		SprgueElec
			Sensitron				CSR Indus		ThmsnCSFEFC
			Texas Instr				Transitron		Burns Towne
			2N3590				Philco-Ford		Carter Tran
			Sensitron				CSR Indus		FairchildSC
			Texas Instr				Transitron		Micro Elecs
			2N3591				Philco-Ford		Precsn Semi
			Sensitron				CSR Indus		SemiconTech
			Texas Instr				Transitron		SGS-Ates
			2N3592				Philco-Ford		TeledynSemi
			Sensitron				CSR Indus		Burns Towne
			Texas Instr				Transitron		Carter Tran
			2N3593				Philco-Ford		FairchildSC
			Sensitron				CSR Indus		Micro Elecs
			Texas Instr				Transitron		Precsn Semi
			2N3594				Philco-Ford		SemiconTech
			Sensitron				CSR Indus		SGS-Ates
			Texas Instr				Transitron		TeledynSemi
			2N3595				Philco-Ford		ThmsnCSFEFC
			Sensitron				CSR Indus		Burns Towne
			Texas Instr				Transitron		Carter Tran
			2N3596				Philco-Ford		FairchildSC
			Sensitron				CSR Indus		Micro Elecs
			Texas Instr				Transitron		Precsn Semi
			2N3597				Philco-Ford		SemiconTech
			Sensitron				CSR Indus		SGS-Ates
			Texas Instr				Transitron		TeledynSemi
			2N3598				Philco-Ford		ThmsnCSFEFC
			Sensitron				CSR Indus		Burns Towne
			Texas Instr				Transitron		Carter Tran
			2N3599				Philco-Ford		FairchildSC
			Sensitron				CSR Indus		Micro Elecs
			Texas Instr				Transitron		Precsn Semi
			2N3600				Philco-Ford		SemiconTech
			Sensitron				CSR Indus		SGS-Ates
			Texas Instr				Transitron		TeledynSemi
			2N3601				Philco-Ford		ThmsnCSFEFC
			Sensitron				CSR Indus		Burns Towne
			Texas Instr				Transitron		Carter Tran
			2N3602				Philco-Ford		FairchildSC
			Sensitron				CSR Indus		Micro Elecs
			Texas Instr				Transitron		Precsn Semi
			2N3603				Philco-Ford		SemiconTech
			Sensitron</						