

# LOW-POWER SILICON PNP

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;= 20 V, (Cont'd)</b>													
-	2N1221	See Index	25	18	100m	5.0M	15p	.10u	30	250m	1.7m	175 J	TO-5
-	2S3030	SemiconTech	25	19	100m	1.2M	40p	10u	25	300m	1.7m	175 S	N/A
-	2S3030	NthAmerSemi	25	19	100m	1.2M	40p	10u	25	300m	1.7m	175 S	N/A
-	BCZ10	NthAmerSemi	25	20	50m	1.0M		100n	25	250m	2.0m	150 J	Can
5	2S302	See Index	25	20	100m	.80M	40p	10u	40	300m	1.7m	175 J	TO-5
-	HA9048	Genrl Diode	25	20	100m	25M	8.0p	200n	25	275m	1.8m	175 J	TO-5
-	HA9048	SemiconTech	25	20	100m	25M	8.0p	200n	25	275m	1.8m	175 J	TO-5
-	TP3638	SprgueElec	25	20	500m	100M	20p	35n	25	500m		150 J	TO-226
-	2N923	See Index	25	21	50m	800K	20p	50u	40	150m	833u	175	TO-18
-	BCY28	NthAmerSemi	25	25	50m	1.5M	45p	.10u	30	275m	2.2m	150 J	TO-5
-	BCY28	Hybrid Semi	25	25	50m	1.5M	45p	.10u	30	275m	2.2m	150 J	TO-5
-	2N1118A	See Index	25	25	50m	18M	6.0p	1.0u	25	150m	1.3m	150 J	TO-5
-	2S3230	SemiconTech	25	25	100m	.25M			25	300m			TO-58
-	A5T3638	SemiconTech	25	25	500m	100M	20p	35n	25	625m	5.0m	150 S	TO-92var
-	2N2696	See Index	25	25	500m	100M	20p	25n	25	360m	2.0m	175 J	TO-18
-	2N2927	See Index	25	25	500m	100M	20p	.02u	25	800m	4.5m	175 J	TO-5
-	OC200	SemiconTech	25	28	50m	1.2M		500n	30	250m	2.0m	150 J	Can
-	OC200	NthAmerSemi	25	28	50m	1.2M		500n	30	250m	2.0m	150 J	Can
-	SS3638	SldSt Indus	25	30		100M				360m			N/A
-	TMP73638	SprgueElec	25	30		100M	20p		25				N/A
-	2N861	See Index	25	30	50m	7.5M	9.0p	100n	25	150m	1.3m	150 S	TO-18
-	2N1118	See Index	25	30	50m	21M	6.0p	1.0u	25	150m	1.3m	150	TO-5
-	MPS3638	See Index	25	30	350m	100M	20p	35n	25	620m	2.8m	150 J	TO-226AA
-	A5T5226	SemiconTech	25	30	500m	50M			25	625m	5.0m	150 S	TO-92var
25	2N5226	See Index	25	30	500m	50M	20p	300n	25	620m	2.8m	150 J	TO-18
-	PN3638	See Index	25	30	500m	100M	20p	35n	25	600m	4.8m	150 J	TO-92
-	2N2695	See Index	25	30	500m	100M	20p	.02u	25	360m	2.0m	175 J	TO-46
-	2N3638	See Index	25	30	800m	100M	20p	35n	25	620m	3.0m	150 J	TO-92
-	2S323	Hybrid Semi	25	35	50m	2.0M	40p	10u	25	300m	2.4m	200 J	TO-58
-	2S323	Genrl Diode	25	35	50m	2.0M	40p	10u	25	300m	2.4m	200 J	TO-58
-	2S323	SemiconTech	25	35	50m	2.0M	40p	10u	25	300m	2.4m	200 J	TO-58
-	2S303	See Index	25	35	100m	1.2M	40p	10u	25	300m	1.7m	175 J	TO-5
-	2N924	See Index	25	47	50m	800K	20p		40	150m	833u	175	TO-18
-	HSE140	Hybrid Semi	25	50		150M		1.0u	30	600m	4.8m	150 J	TO-5
35	0414	Advncd Semi	25	50	100m	100M	9.0p		25	200m			TO-106
-	0414	Semi Inc	25	50	100m	100M	9.0p		25	200m			TO-106
-	MPS6562	See Index	25	50	500m	60M	30p	100n	25	625m	5.0m	150 J	TO-226AA
-	ZTX500	FerrantiLtd	25	50	500m	150M	6.0p	200n	25	300m	3.0m	175 S	TO-92var
-	MPS6563	See Index	25	50	600m	60M	30p	100n	25	625m	5.0m	150 J	TO-92
-	MPSD56	See Index	25	50	800m	100M		1.0u	25	350m	2.8m	150 J	TO-92
-	C155	Powerex Inc	25	50	-2	120M				800m			TO-92
-	C155	Advncd Semi	25	50	-2	120M				800m			TO-92
-	C155	Semi Inc	25	50	-2	120M				800m			TO-92
45	C155P	Advncd Semi	25	50	-2	120M				750m			TO-237AA
-	C155P	Semi Inc	25	50	-2	120M				750m			TO-237AA
-	ZT180	FerrantiLtd	25	55	500m	150M	15p	500n	25	300m	2.4m	150 J	TO-18
-	2SB643	Matsushita	25	60			6.0p	100n	30	600m	5.4m	135 J	SIP
-	HA9049	SemiconTech	25	60	100m	25M	8.0p	200n	25	275m	1.8m	175 J	TO-5
-	HA9049	Genrl Diode	25	60	100m	25M	8.0p	200n	25	275m	1.8m	175 J	TO-5
50	0413	Semi Inc	25	60	100m	100M	5.0p		40	200m			TO-106
-	0413	Advncd Semi	25	60	100m	100M	5.0p		40	200m			TO-106
-	BC181	Mistral SpA	25	60	200m			100n	40	300m	2.4m	150 S	TO-92var
-	BC181	Semelab	25	60	200m			100n	40	300m	2.4m	150 S	TO-92var
-	BC181	NthAmerSemi	25	60	200m			100n	40	300m	2.4m	150 S	TO-92var
55	BC381	Micro Elecs	25	60	200m			100n	40	625m	5.0m	150 S	N/A
-	BC381	Advncd Semi	25	60	200m			100n	40	625m	5.0m	150 S	N/A
-	BC381	Semi Inc	25	60	200m			100n	40	625m	5.0m	150 S	N/A
-	A8T3702	SemiconTech	25	60	200m	100M	12p	100n	40	625m	5.0m	150 S	TO-92
60	MPS9462	Micro Elecs	25	60	500m			50n	20	350m		150 J	TO-92
-	BC192	CentralSemi	25	60	500m	100M	12p	100n	25	400m	2.2m	175 J	TO-18
-	BC192	NthAmerSemi	25	60	500m	100M	12p	100n	25	400m	2.2m	175 J	TO-18
-	BC192	Micro Elecs	25	60	500m	100M	12p	100n	25	400m	2.2m	175 J	TO-18
-	PET3702	SemiconTech	25	60	500m	100M	12p	100n	40	360m	3.6m	125 J	TO-106
65	2N3702	See Index	25	60	500m	100M	12p	100n	40	620m	2.8m	150 S	TO-92
-	MPS3702	See Index	25	60	600m	100M	12p	100n	40	625m	5.0m	150 J	TO-226AA
-	2N5811	See Index	25	60	750m		15p	100n	35	500m	4.5m	135 J	TO-92
-	GES5811	GE Solid St	25	60	750m	125M		100n	35	500m	4.5m	150 J	TO-92
-	D29E1	SprgueElec	25	60	800m	100M		100n	35	500m	4.0m	150 J	TO-98
-	D29E1	GE Solid St	25	60	800m	100M		100n	35	500m	4.0m	150 J	TO-98
70	TP5447	SprgueElec	25	60	800m	100M	12p	100n	40			150 J	TO-226
-	2N5447	See Index	25	60	800m	100M	12p	100n	40	620m	2.9m	150 J	TO-18
-	2SB544	Sanyo Elect	25	60	1.0	180M	25p	1.0u	25	750m		125	TO-92var
-	PN5447	Natl Semi	25	60	1.5			100n	40	360m	2.8m	150 J	TO-92
75	CS9012	See Index	25	64	1.0			500n	25	600m	3.6m	135 J	TO-92
-	BC308VI	See Index	25	70	100m	130M		100n	30	300m	2.4m	150 J	TO-226AA
-	BC308VI18	Motorola	25	70	100m	130M		100n	30	300m	2.4m	150 J	TO-18
-	BC308VI5	Motorola	25	70	100m	130M		100n	30	300m	2.4m	150 J	TO-5
-	BC158	See Index	25	75	100m	150M		100n	30	350m	3.5m	125 J	N/A
-	BC418	NthAmerSemi	25	75	100m	150M		15u	30	250m	2.5m	125 J	TO-106
80	SF158	Semi Ltd	25	75	200m	150M	4.0p	100n	30	200m			TO-106
-	MPSD55	See Index	25	80	600m	100M		1.0u	25	350m	2.8m	150 J	TO-226AA
-	MSB492	Semi Inc	25	80	-2	100M	28p			800m			TO-92
-	2S303A	Semelab	25	85	100m	1.2M				300m			TO-39
85	2SB641	Matsushita	25	90	200m		3.5p	1.0u	30	400m	3.6m	135 J	SIP
-	ZT187	FerrantiLtd	25	90	500m	150M	15p	500n	25	300m	2.4m	150 J	TO-18
-	2SA952	NEC Corp JA	25	90	700m	50M	17p	100n	30	600m	4.8m	150 J	TO-92
-	2SA952	NECElecsinc	25	90	700m	50M	17p	100n	30	600m	4.8m	150 J	TO-92
-	2SA952	Micro Elecs	25	90	700m	50M	17p	100n	30	600m	4.8m	150 J	TO-92
-	MMBT3638A	Natl Semi	25	100				35n	25				TO-236var
90	MMBT3638A	Motorola	25	100				35n	25				TO-236var
-	TMP73638A	SprgueElec	25	100		100M	10p		35n				N/A
-	SS3638A	SldSt Indus	25	100		150M	10p			360m			N/A
-	BC334	Advncd Semi	25	100	50m	50M	4.0p			310m			TO-92
95	BC334	Semi Inc	25	100	50m	50M	4.0p			310m			TO-92
-	BC334	Micro Elecs	25	100	50m	50M	4.0p			310m			TO-92
-	BC336	See Index	25	100	50m	50M	4.0p			310m			TO-92
-	PN6076	FairchildSC	25	100	100m			100n	25	625m	5.0m	150 J	TO-92

# 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	Transitron	2N3549	CSR Indus	Texas Instr	2N3576	TexslntLtd	ThmsnCSFEFC	2N3608	ThomCSF Com	2N3634	CSR Indus	CSR Indus	
		Carter Semi		Natl Semi	2N3577	CSR Indus	Dionics Inc			FairchildSC		Natl Semi	Natl Semi	
		Horizon		NthAmerSemi	2N3578	Natl Semi	GeneralInst		GE/Intersil	GeneralInst		Natl Trans	Tadran Isr	
		Motorola		ThmsnCSFEFC	2N3579	Raytheon Co	Philco-Ford		GeneralInst	Philco-Ford	2N3634S	Motorola	ThmsnCSFEFC	Transitron
		Natl Trans		CSR Indus	2N3580	SemiconTech	Philco-Ford		GeneralInst	Philco-Ford	2N3635	FairchildSC	FairchildSC	
		Precsn Semi		NthAmerSemi	2N3581	Texas Instr	Philco-Ford		GeneralInst	Philco-Ford	2N3635S	CSR Indus	Natl Trans	
		SemiconTech		ThmsnCSFEFC	2N3582	TexslntLtd	Philco-Ford		GeneralInst	Philco-Ford	2N3636	Natl Semi	Sid St Dvcs	
		Tadran Isr		PPC Product	2N3583	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3637	Precsn Semi	Texas Instr	
		TeledynSemi		Tadran Isr	2N3584	PPC Product	Philco-Ford		GeneralInst	Philco-Ford	2N3638	ThmsnCSFEFC	Transitron	
		TexslntLtd		Transitron	2N3585	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3639	CSR Indus	CSR Indus	
		TextnsInst		Transitron	2N3586	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3640	CSR Indus	FairchildSC	
		TextnsInstLtd		Transitron	2N3587	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3641	Micro Elecs	SemiconTech	
		TextnsInstLtd		Transitron	2N3588	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3642	Micro Elecs	SemiconTech	
		TextnsInstLtd		Transitron	2N3589	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3643	Micro Elecs	SemiconTech	
		TextnsInstLtd		Transitron	2N3590	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3644	Micro Elecs	SemiconTech	
		TextnsInstLtd		Transitron	2N3591	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3645	Micro Elecs	SemiconTech	
		TextnsInstLtd		Transitron	2N3592	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford	2N3646	Micro Elecs	SemiconTech	
		TextnsInstLtd		Transitron	2N3593	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3594	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3595	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3596	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3597	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3598	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3599	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3600	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3601	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3602	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3603	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3604	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3605	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3606	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3607	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3608	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3609	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3610	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3611	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3612	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3613	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3614	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3615	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3616	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3617	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3618	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3619	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3620	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3621	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3622	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3623	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3624	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3625	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
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		TextnsInstLtd		Transitron	2N3627	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
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		TextnsInstLtd		Transitron	2N3630	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3631	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3632	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3633	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3634	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
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		TextnsInstLtd		Transitron	2N3638	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
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		TextnsInstLtd		Transitron	2N3640	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3641	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3642	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3643	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3644	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3645	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				
		TextnsInstLtd		Transitron	2N3646	CSR Indus	Philco-Ford		GeneralInst	Philco-Ford				