

SILICON POWER TRANSISTORS

TYPE NUMBER	CASE TYPE	V_{CBO} V	V_{CEO} V	V_{EBO} V	CURRENT GAIN				SATURATION VOLTAGES			
					h_{FE}		V_{CE} V	I_C A	$V_{CE(s)}$ V	$V_{BE(s)}$ V	I_C A	I_B A
					MIN.	MAX.						
2 AMP SILICON PNP Observe (–) Negative Polarity												
2N3782	TO-5	40	40	8.0	10	40	3.0	1.0	.75	1.75	1.0	.200
2N4234	TO-5	40	40	7.0	30	150	1.0	.3	.60	1.50	1.0	.100
2N4235	TO-5	60	60	7.0	30	150	1.0	.3	.60	1.50	1.0	.100
2N4236	TO-5	80	80	7.0	30	150	1.0	.3	.60	1.50	1.0	.100
2N4387	TO-66	40	40	5.0	25	100	10.0	.5	3.00		1.0	.100
2N4388	TO-66	60	60	5.0	25	100	10.0	.5	3.00		1.0	.100
2N4898	TO-66	40	40	5.0	20	100	1.0	.5	1.30	1.30	1.0	.100
2N4899	TO-66	60	60	5.0	20	100	1.0	.5	1.30	1.30	1.0	.100
2N4900	TO-66	80	80	5.0	20	100	1.0	.5	1.30	1.30	1.0	.100
SDT3501	TO-5	40	40	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3502	TO-5	60	60	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3503	TO-5	80	80	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3504	TO-5	100	100	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3505	TO-5	40		6.0	50		5.0	.5	.40	1.00	.5	.050
SDT3506	TO-5	60	60	6.0	50	150	5.0	.5	.40	1.00	.5	.050
SDT3507	TO-5	80	80	6.0	50	150	5.0	.5	.40	1.00	.5	.050
SDT3508	TO-5	100	100	6.0	50	150	5.0	.5	.40	1.00	.5	.050
SDT3509	TO-66	40	40	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3510	TO-66	60	60	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3511	TO-66	80	80	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3512	TO-66	100	100	6.0	30		5.0	.5	.40	1.00	.5	.050
SDT3513	TO-66	40	40	6.0	50	150	5.0	.5	.40	1.00	.5	.050
SDT3514	TO-66	60	60	6.0	50	150	5.0	.5	.40	1.00	.5	.050
SDT3515	TO-66	80	80	6.0	50	150	5.0	.5	.40	1.00	.5	.050
SDT3516	TO-66	100	100	6.0	50	150	5.0	.5	.40	1.00	.5	.050
SDT3550	TO-5	60	60	6.0	30	100	1.0	.3	.60	1.00	1.0	.100
SDT3551	TO-5	80	80	6.0	10		1.0	1.0	.60	1.30	1.0	.010
SDT3552	TO-5	40	40	6.0	10		1.0	1.0	.60	1.30	1.0	.010
SDT3553	TO-5	60	60	6.0	10		1.0	1.0	.60	1.30	1.0	.010
SDT3554	TO-5	80	80	6.0	10		1.0	1.0	.60	1.30	1.0	.010
SDT3575	TO-66	40	40	6.0	15		1.0	1.0	.60	1.20	1.0	.010
SDT3576	TO-66	60	60	6.0	15		1.0	1.0	.60	1.20	1.0	.010
SDT3577	TO-66	80	80	6.0	15		1.0	1.0	.60	1.20	1.0	.010
SDT3578	TO-66	40	40	6.0	15		1.0	1.0	.60	1.20	1.0	.010
SDT3579	TO-66	60	50	5.0	15		10.0	1.5	.50	.90	.5	.050
3 AMP SILICON NPN												
2N5664	TO-66	250	200	6.0	10		5.0	5.0	.50	1.20	2.0	.200
2N5665	TO-66	400	300	6.0	10		5.0	5.0	.50	1.20	2.0	.200
SDT1301	TO-66	450	360	4.0	4		5.0	3.0	1.00	2.00	1.5	.400
SDT1302	TO-66	500	400	4.0	6		5.0	3.0	1.00	2.00	1.5	.400
SDT1303	TO-66	450	360	4.0	4		5.0	3.0	1.00	2.00	1.5	.400
SDT1304	TO-66	500	400	4.0	6		5.0	3.0	1.00	2.00	1.5	.400
SDT5101	TO-220-AA	50	50	4.0	35	70	4.0	1.0	1.00		2.0	.200
SDT5102	TO-220-AA	50	50	4.0	60	120	4.0	1.0	1.00		2.0	.200
SDT5103	TO-220-AA	50	50	4.0	100	300	4.0	1.0	1.00		2.0	.200
3 AMP SILICON PNP Observe (–) Negative Polarity												
SDT5111	TO-220-AA	50	50	4.0	35	70	4.0	1.0	1.00		2.0	.200
SDT5112	TO-220-AA	50	50	4.0	60	120	4.0	1.0	1.00		2.0	.200
SDT5113	TO-220-AA	50	50	4.0	100	300	4.0	1.0	1.00		2.0	.200
4 AMP SILICON NPN												
2N5293	TO-220-AB	80	70	7.0	30	120	4.0	.5	2.00		4.0	1.000
2N5294	TO-220-AA	80	70	7.0	30	120	4.0	.5	2.00		4.0	1.000
2N5295	TO-220-AB	60	40	5.0	30	120	4.0	1.0	2.00		4.0	1.000
2N5296	TO-220-AA	60	40	5.0	30	120	4.0	1.0	2.00		4.0	1.000
2N5297	TO-220-AB	80	60	5.0	20	80	4.0	1.5	2.00		4.0	1.000
2N5298	TO-220-AA	80	60	5.0	20	80	4.0	1.5	2.00		4.0	1.000
5 AMP SILICON NPN												
2N1702	TO-3	60	40	6.0	15	60	4.0	.8	5.00		5.0	2.000
2N2150	TO-111	125	80	8.0	20	60	5.0	1.0	1.25	2.00	1.0	.100
2N2151	TO-111	125	80	8.0	40	120	5.0	1.0	1.25	2.00	1.0	.100

SILICON POWER TRANSISTORS

θ_{JC} °C/W	TYPICAL SWITCHING TIMES					V_{CE} V	I_C A	f_T MHz	EL	TYPE NUMBER
	t_r μs	t_{on} μs	t_s μs	t_f μs	t_{off} μs					
2 AMP SILICON PNP Observe (—) Negative Polarity										
25.00		3.00			3.00		1.0	70.0	69	2N3782
25.00								70.0	69	2N4234
25.00								70.0	69	2N4235
25.00								70.0	69	2N4236
25.00								70.0	69	2N4387
25.00								70.0	69	2N4388
25.00								70.0	69	2N4898
25.00								70.0	69	2N4899
25.00								70.0	69	2N4900
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3501
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3502
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3503
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3504
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3505
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3506
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3507
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3508
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3509
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3510
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3511
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3512
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3513
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3514
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3515
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3516
25.00	.15		1.20	.15		30	.5	70.0	69	SDT3550
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3551
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3552
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3553
25.00		.20	1.50	.20		20	.5	50.0	69	SDT3554
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3575
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3576
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3577
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3578
6.00		.20	1.50	.20		20	.5	50.0	69	SDT3579
3 AMP SILICON NPN										
3.33		.25			1.50	100	1.0		02	2N5664
3.33		.25			1.50	100	1.0		40	2N5665
6.00		2.00	4.00	2.00		30	1.5	5.0	JD	SDT1301
6.00		2.00	4.00	2.00		30	1.5	5.0	JD	SDT1302
6.00		2.00	4.00	2.00		30	1.5	5.0	JD	SDT1303
6.00		2.00	4.00	2.00		30	1.5	5.0	JD	SDT1304
4.16		5.00			15.00			4.0	JA	SDT5101
4.16		5.00			15.00			4.0	JA	SDT5102
4.16		5.00			15.00			4.0	JA	SDT5103
3 AMP SILICON PNP Observe (—) Negative Polarity										
4.16		5.00			15.00			4.0	JB	SDT5111
4.16		5.00			15.00			4.0	JB	SDT5112
4.16		5.00			15.00			4.0	JB	SDT5113
4 AMP SILICON NPN										
3.50		5.00			15.00			.8	43	2N5293
3.50		5.00			15.00			.8	43	2N5294
3.50		5.00			15.00			.8	43	2N5295
3.50		5.00			15.00			.8	43	2N5296
3.50		5.00			15.00			.8	43	2N5297
3.50		5.00			15.00			.8	43	2N5298
5 AMP SILICON NPN										
2.33								1.0	45	2N1702
3.33		.13			1.10	20	1.0	60.0	84	2N2150
3.33		.13			1.10	20	1.0	60.0	84	2N2151