

SILICON POWER TRANSISTORS

TYPE NUMBER	CASE TYPE	V_{CBO} V	V_{CEO} V	V_{EBO} V	CURRENT GAIN @				SATURATION VOLTAGES @			
					MIN.	MAX.	V_{CE} V	I_C A	$V_{CE(s)}$ V	$V_{BE(s)}$ V	I_C A	I_B A
7.5 AMP SILICON NPN												
2N3232	TO-3	80	60	6.0	18	55	10.0	3.0	2.50	3.50	3.0	.200
2N3233	TO-3	110	100	6.0	18	55	10.0	3.0	2.50	3.50	3.0	.200
2N3234	TO-3	160	160	6.0	18	55	10.0	3.0	2.50	3.50	3.0	.200
2N3863	TO-3	70	50	7.0	30	60	2.0	3.0	1.00	2.00	3.0	.200
2N3864	TO-3	110	90	7.0	30	90	2.0	3.0	1.00	2.00	3.0	.200
2N5387	TO-61	200	200	10.0	10	60	5.0	5.0	.50	1.20	2.0	.200
2N5388	TO-61	250	250	10.0	10	60	5.0	5.0	.50	1.20	2.0	.200
2N5389	TO-61	300	300	10.0	10	60	5.0	5.0	.50	1.20	2.0	.200
SDT9301	TO-3	40	40	6.0	15		4.0	1.0	1.00	1.80	1.0	.100
SDT9302	TO-3	60	60	6.0	15		4.0	1.0	1.00	1.80	1.0	.100
SDT9303	TO-3	80	80	6.0	15		4.0	1.0	1.00	1.80	1.0	.100
SDT9304	TO-3	40	40	6.0	15		4.0	2.0	1.00	1.80	2.0	.200
SDT9305	TO-3	60	60	6.0	15		4.0	2.0	1.00	1.80	2.0	.200
SDT9306	TO-3	80	80	6.0	15		4.0	2.0	1.00	1.80	2.0	.200
SDT9307	TO-3	40	40	6.0	15		4.0	3.0	1.00	1.80	3.0	.300
SDT9308	TO-3	60	60	6.0	15		4.0	3.0	1.00	1.80	3.0	.300
SDT9309	TO-3	80	80	6.0	15		4.0	3.0	1.00	1.80	3.0	.300
7.5 AMP SILICON PNP Observe (-) Negative Polarity												
2N6229	TO-3	100	100	7.0	25	100	2.0	5.0	1.00	2.00	7.5	.750
2N6230	TO-3	120	120	7.0	20	80	2.0	5.0	1.00	2.00	7.5	.750
8 AMP SILICON NPN												
2N3773	TO-3	160	140	7.0	15	60	5.0	8.0	1.40	2.20	8.0	.800
10 AMP SILICON NPN												
2N1724	TO-61	175	80	10.0	20	90	15.0	2.0	1.00	2.00	2.0	.200
2N1725	TO-61	120	80	10.0	50	150	15.0	2.0	1.00	2.00	2.0	.200
2N2811	TO-61	80	60	8.0	20	60	5.0	5.0	.50	1.20	5.0	.500
2N2812	TO-61	80	60	8.0	40	120	5.0	5.0	.50	1.20	5.0	.500
2N2813	TO-61	120	80	8.0	20	60	5.0	5.0	.50	1.20	5.0	.500
2N2814	TO-61	120	80	8.0	40	120	5.0	5.0	.50	1.20	5.0	.500
2N3442	TO-3	160	140	7.0	20	70	4.0	3.0	5.00	5.70	10.0	2.000
2N3445	TO-3	80	60	6.0	20	60	5.0	3.0	1.50	1.50	3.0	.300
2N3446	TO-3	100	80	10.0	20	60	5.0	3.0	1.50	1.50	3.0	.300
2N3447	TO-3	80	60	6.0	40	120	5.0	5.0	1.50	1.50	5.0	.500
2N3448	TO-3	100	80	10.0	40	120	5.0	5.0	1.50	1.50	5.0	.500
2N3487	TO-61	80	60	10.0	20	60	5.0	3.0	1.20	1.50	3.0	.300
2N3488	TO-61	100	80	10.0	20	60	5.0	3.0	1.20	1.50	3.0	.300
2N3489	TO-61	120	100	10.0	15	45	5.0	3.0	1.20	1.50	3.0	.300
2N3490	TO-61	80	60	10.0	40	120	5.0	5.0	1.50	1.50	5.0	.500
2N3491	TO-61	100	80	10.0	40	120	5.0	5.0	1.50	1.50	5.0	.500
2N3492	TO-61	120	100	10.0	30	90	5.0	5.0	1.50	1.50	5.0	.500
2N3713	TO-3	80	60	7.0	25	75	2.0	1.0	1.00	1.80	5.0	.500
2N3714	TO-3	100	80	7.0	25	75	2.0	1.0	1.00	1.80	5.0	.500
2N3715	TO-3	80	60	7.0	50	150	2.0	1.0	.80	1.80	5.0	.500
2N3716	TO-3	100	80	7.0	50	150	2.0	1.0	.80	1.80	5.0	.500
2N3772	TO-3	100	60	7.0	15	60	5.0	10.0	1.40	2.20	10.0	1.000
2N4070	TO-3	120	100	8.0	40	120	5.0	5.0	.60	1.50	5.0	.500
2N4071	TO-3	200	150	8.0	40	120	5.0	5.0	.60	1.50	5.0	.500
2N4111	TO-3	100	60	8.0	40	120	5.0	2.0	1.50	2.20	5.0	.500
2N4112	TO-3	100	60	8.0	100	300	5.0	2.0	1.50	2.20	5.0	.500
2N4113	TO-3	120	80	8.0	40	120	5.0	2.0	1.50	2.20	5.0	.500
2N4301	TO-61	100	80	8.0	30	120	4.0	5.0	1.00	1.20	10.0	1.300
2N4347	TO-3	140	120	7.0	15	60	4.0	2.0	2.00	3.00	5.0	.630
2N4348	TO-3	140	120	7.0	15	60	5.0	5.0	1.40	2.20	.5	.500
2N5006	TO-61	100	80	6.0	30	90	5.0	5.0	.90	1.80	5.0	.500
2N5008	TO-61	100	80	6.0	20	200	5.0	5.0	.90	1.80	5.0	.500
2N5218	TO-61	220	200	8.0	15	120	5.0	5.0	.50	1.20	2.0	.200
2N5237	TO-5	150	120	5.0	40	120	5.0	5.0	.60	1.50	5.0	.500
2N5238	TO-5	200	170	5.0	40	120	5.0	5.0	.60	1.50	5.0	.500
2N5288	TO-61-1	120	100	6.0	30	90	5.0	5.0	.90	1.80	5.0	.500
2N5289	TO-61-1	120	100	6.0	70	200	5.0	5.0	.90	1.80	5.0	.500

SILICON POWER TRANSISTORS

θ_{J-C} °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					
7.5 AMP SILICON NPN										
1.50								1.0	45	2N3232
1.50								1.0	45	2N3233
1.50								1.0	45	2N3234
1.50		.80			16.00	3.0		1.0	45	2N3863
1.50		.80			16.00	3.0		1.0	45	2N3864
1.00									92	2N5387
1.00									92	2N5388
1.00									92	2N5389
2.00								.8	45	SDT9301
2.00								.8	45	SDT9302
2.00								.8	45	SDT9303
2.00								.8	45	SDT9304
2.00								.8	45	SDT9305
2.00								.8	45	SDT9306
2.00								.8	45	SDT9307
2.00								.8	45	SDT9308
2.00								.8	45	SDT9309
7.5 AMP SILICON PNP Observe (—) Negative Polarity										
1.50								50.0	67	2N6229
3.33								60.0	71	2N6230
8 AMP SILICON NPN										
1.20								1.0	31	2N3773
10 AMP SILICON NPN										
2.00									92	2N1724
2.00									92	2N1725
2.00	.50		1.50	.50		30	5.0		85	2N2811
2.00	.50		1.50	.50		30	5.0		85	2N2812
2.00	.50		1.50	.50		30	5.0		85	2N2813
2.00	.50		1.50	.50		30	5.0		85	2N2814
1.50								1.0	45	2N3442
1.50		.35	2.00	.35		30	5.0		85	2N3445
1.50		.35	2.00	.35		30	5.0		85	2N3446
1.50		.35	2.00	.35		30	5.0		85	2N3447
1.50		.35	2.00	.35		30	5.0		85	2N3448
1.50		.35	2.00	.35		30	5.0		85	2N3487
1.50		.35	2.00	.35		30	5.0		85	2N3488
1.50		.35	2.00	.35		30	5.0		85	2N3489
1.50		.35	2.00	.35		30	5.0		85	2N3491
1.50		.35	2.00	.35		30	5.0		85	2N3492
1.20									77	2N3713
1.20									77	2N3714
1.20									77	2N3715
1.20									77	2N3716
1.20								1.0	31	2N3772
1.50		.50	1.20	.45		20	1.0		85	2N4070
1.50		.50	1.20	.45		20	1.0		85	2N4071
1.50									84	2N4111
1.50									84	2N4112
1.50									84	2N4113
2.00									85	2N4301
1.75								1.0	45	2N4347
1.50									31	2N4348
.20									86	2N5006
.20									86	2N5008
2.00	.60		4.50	1.00		20	1.0		92	2N5218
20.00	.50		1.50	.50		20	5.0		85	2N5237
20.00	.50		1.50	.50		20	5.0		85	2N5238
1.50									86	2N5288
1.50									86	2N5289