

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.						
15 AMP SILICON NPN												
2N3055	TO-3	100	60	7.0	20	70	4.0	4.0	1.10	1.80	4.0	.400
2N3235	TO-3	65	55	7.0	20	70	4.0	4.0	1.10	1.80	4.0	.400
2N3236	TO-3	90	90	7.0	17	60	4.0	5.0	1.40	2.20	5.0	.500
2N3238	TO-3	80	80	8.0	9	25	12.0	10.0	1.80	2.50	10.0	1.000
2N3239	TO-3	80	80	8.0	9	25	10.0	10.0	1.80	2.50	10.0	1.000
2N3240	TO-3	160	160	8.0	9	25	10.0	10.0	1.80	2.50	10.0	1.000
2N3667	TO-3	50	50	5.0	15	60		8.0	1.60	2.40	8.0	.800
2N3771	TO-3	50	40	5.0	15	60	5.0	15.0	2.00	2.70	15.0	1.500
2N5412	TO-61	80	60	7.0	10	160	1.5	2.0	1.50	1.70	15.0	3.000
2N6254	TO-3	100	80	7.0	20	70	2.0	5.0	4.00		15.0	3.000
SDT7731	TO-3	60	40	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7732	TO-3	80	60	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7733	TO-3	100	80	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7734	TO-3	120	100	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7735	TO-3	140	125	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7736	TO-3	165	150	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7741	TO-66	60	40	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7742	TO-66	80	60	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7743	TO-66	100	80	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7744	TO-66	120	100	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7745	TO-66	140	125	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT7746	TO-66	165	150	2.0	20	80	5.0	5.0	.50	1.20	5.0	.500
SDT9201	TO-3	55	45	12.0	20	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9202	TO-3	100	80	12.0	20	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9203	TO-3	120	100	12.0	20	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9204	TO-3	140	120	12.0	20	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9205	TO-3	55	45	12.0	15	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9206	TO-3	80	60	12.0	15	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9207	TO-3	100	80	12.0	15	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9208	TO-3	120	100	12.0	15	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9209	TO-3	140	120	12.0	15	70	4.0	4.0	1.10	1.80	4.0	.400
SDT9210	TO-3	40	30	5.0	15	70	4.0	4.0	1.10	1.80	4.0	.400
16 AMP SILICON NPN												
2N5629	TO-3	100	100	7.0	25	100	2.0	8.0	1.00	1.80	10.0	1.000
2N5630	TO-3	120	120	7.0	20	80	2.0	8.0	1.00	1.80	10.0	1.000
2N5631	TO-3	140	140	7.0	15	60	2.0	8.0	1.00	1.80	10.0	1.000
2N6362	TO-3	140	120	7.0	15	60	4.0	8.0	1.40		8.0	.800
20 AMP SILICON NPN												
2N3237	TO-3	90	75	7.0	12	36	5.0	10.0	1.80	2.50	10.0	1.000
2N3597	TO-63	60	40	8.0	40	120	2.0	10.0	.50	1.50	10.0	1.000
2N3598	TO-63	80	60	8.0	40	120	2.0	10.0	.50	1.50	10.0	1.000
2N3599	TO-63	100	80	8.0	40	120	2.0	10.0	.50	1.50	10.0	1.000
2N4210	TO-63	80	60	10.0	20	100	6.0	10.0	1.00	1.60	10.0	1.000
2N4211	TO-63	100	80	10.0	20	100	6.0	10.0	1.00	1.60	10.0	1.000
2N5329	TO-61-I	150	90	8.0	40	120	2.0	10.0	1.80	1.70	20.0	2.000
2N5539	TO-63	175	130	7.0	25	75	5.0	10.0	.80	1.50	15.0	1.500
2N5731	TO-61-I	100	80	5.0	30	300	2.0	5.0	1.20	1.50	10.0	1.000
2N5732	TO-3	100	80	5.0	30	300	2.0	5.0	1.20	1.50	10.0	1.000
2N5885	TO-3	60	60	5.0	20	100	4.0	10.0				
2N5886	TO-3	80	80	5.0	20	100	4.0	10.0				
2N5957	TO-61-I	100	100	10.0	30	120	10.0	10.0	.40	1.00	5.0	.500
2N5959	TO-61	100	100	10.0	30	120	10.0	10.0	.40	1.00	5.0	.500
2N6046	TO-63	70	60	7.0	20	100	4.0	20.0	2.00	2.00	20.0	1.330
2N6047	TO-63	110	100	7.0	20	100	4.0	20.0	2.00	2.00	20.0	1.330
2N6048	TO-63	150	140	7.0	20	100	4.0	20.0	2.00	2.00	20.0	1.330
2N6257	TO-3	50	40	5.0	15	75	4.0	8.0	1.50	2.20	8.0	.800
SDT3201	TO-61	40	40	6.0	30	90	5.0	10.0	1.75	2.50	10.0	1.000
SDT3202	TO-61	60	60	6.0	30	90	5.0	10.0	1.75	2.50	10.0	1.000
SDT3203	TO-61	80	80	6.0	30	90	5.0	10.0	1.75	2.50	10.0	1.000

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					
15 AMP SILICON NPN										
1.50								1.0	45	2N3055
1.50								1.0	45	2N3235
1.10								1.0	45	2N3236
1.10								1.0	31	2N3238
1.10								1.0	31	2N3239
1.10								1.0	31	2N3240
1.50		6.00			12.00	10	8.0	1.0	31	2N3667
1.20								1.0	31	2N3771
1.50		225.00n	300.00n	300.00n		55	10.0	60.0	85	2N5412
1.20									31	2N6254
1.40		1.80			1.00	20	5.0	10.0	77	SDT7731
1.40		1.80			1.00	20	5.0	10.0	77	SDT7732
1.40		1.80			1.00	20	5.0	10.0	77	SDT7733
1.40		1.80			1.00	20	5.0	10.0	77	SDT7734
1.40		1.80			1.00	20	5.0	10.0	77	SDT7735
1.40		1.80			1.00	20	5.0	10.0	77	SDT7736
2.80								10.0	77	SDT7741
2.80								10.0	77	SDT7742
2.80								10.0	77	SDT7743
2.80								10.0	77	SDT7744
2.80								10.0	77	SDT7745
2.80								10.0	77	SDT7746
1.50									45	SDT9201
1.50									45	SDT9202
1.50									45	SDT9203
1.50									45	SDT9204
1.50									45	SDT9205
1.50									45	SDT9206
1.50									45	SDT9207
1.50									45	SDT9208
1.50									45	SDT9209
1.50									45	SDT9210
16 AMP SILICON NPN										
.88								30.0	44	2N5629
.88								30.0	44	2N5630
.88								30.0	44	2N5631
1.20								10.0	77	2N6362
20 AMP SILICON NPN										
1.00								1.0	31	2N3237
1.00		.70	1.50	1.20		20	10.0	30.0	86	2N3597
1.00		.70	1.50	1.20		20	10.0	30.0	86	2N3598
1.00		.70	1.50	1.20		20	10.0	30.0	86	2N3599
1.00								20.0	86	2N4210
1.00								20.0	86	2N4211
1.25		.35				20	10.0	30.0	44	2N5329
1.00		.50	1.50	.50		20	10.0	30.0	86	2N5539
2.00		.30	3.00	.60		40	5.0	40.0	85	2N5731
2.00		.30	3.00	.60		40	5.0	40.0	85	2N5732
1.00								10.0	86	2N5885
1.00								10.0	86	2N5886
1.25		.50				20	20.0	30.0	44	2N5957
1.25		.50				20	20.0	30.0	44	2N5959
.88		.60	.55	.35		30	20.0	30.0	86	2N6046
.88		.60	.55	.35		30	20.0	30.0	86	2N6047
.88		.60	.55	.35		30	20.0	30.0	86	2N6048
1.20								1.0	86	2N6257
2.00	.50		1.00	.50		20	10.0	60.0	85	SDT3201
2.00	.50		1.00	.50		20	10.0	60.0	85	SDT3202
2.00	.50		1.00	.50		20	10.0	60.0	85	SDT3203