SILICON POWER TRANSISTORS

TYPE NUMBER	CASE TYPE	V_{CBO} V	V_{CEO} V	V_{EBO} V	CURRENT GAIN h_{FE} MIN.	h_{FE} MAX.	@ V_{CE} V	@ I_C A	SATURATION VOLTAGES $V_{CE(s)}$ V	$V_{BE(s)}$ V	@ I_C A	@ I_B A
5 AMP SILICON NPN												
2N4300	TO-5	100	80	8.0	30	120	2.0	1.0	.50	1.20	2.0	.200
2N4305	TO-5	120	80	6.0	50	150	2.0	1.0	1.00	1.50	5.0	.500
2N4307	TO-5	100	60	6.0	50	150	2.0	1.0	1.00	1.50	5.0	.500
2N4309	TO-5	120	80	6.0	50	150	2.0	1.0	1.40	1.80	5.0	.500
2N4311	TO-5	100	60	6.0	40	120	2.0	1.0	1.40	1.80	5.0	.500
2N4395	TO-3	60	40	4.0	50	170	1.0	2.0	.80	1.50	4.5	.450
2N4396	TO-3	80	60	4.0	40	170	1.0	2.0	.80	1.50	4.5	.450
2N4895	TO-5	120	60	6.0	100	300	2.0	2.0	1.00	1.60	5.0	.500
2N4896	TO-5	120	60	6.0	40	120	2.0	2.0	1.00	1.60	5.0	.500
2N4897	TO-5	150	80	6.0	40	120	2.0	2.0	1.00	1.60	5.0	.500
2N4913	TO-3	40	40	5.0	25	100	2.0	2.5	.75	1.50	2.5	.250
2N4914	TO-3	60	60	5.0	25	100	2.0	2.5	.75	1.50	2.5	.250
2N4915	TO-3	80	80	5.0	25	100	2.0	2.5	.75	1.50	2.5	.250
2N4998	TO-111-I	100	80	6.0	30	90	5.0	1.0	.85	1.50	2.0	.200
2N5000	TO-111-I	100	80	6.0	70	200	5.0	1.0	.85	1.50	2.0	.200
2N5002	TO-111-I	100	80	6.0	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5004	TO-111-I	100	80	6.0	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5074	TO-111-I	200	200	6.0	30	110	5.0	.5	2.00	2.20	3.0	.300
2N5075	TO-111-I	200	200	6.0	90	250	5.0	.5	2.00	2.20	3.0	.300
2N5076	TO-111-I	250	250	6.0	30	110	5.0	.5	2.00	2.20	3.0	.300
2N5077	TO-111-I	250	250	6.0	90	250	5.0	.5	2.00	2.20	3.0	.300
2N5148	TO-5	100	80	6.0	30	90	5.0	1.0	.85	1.50	2.0	.200
2N5152	TO-5	100	80	6.0	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5154	TO-5	100	80	6.0	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5157	TO-3	700	500	6.0	30	90	5.0	1.0	2.50	2.00	3.5	.700
2N5239	TO-3	300	225	6.0	20	80	10.0	2.0	5.00		4.5	1.125
2N5240	TO-3	375	300	6.0	20	80	10.0	2.0	5.00			
2N5241	TO-3	400	400	5.0	15	35	5.0	2.5	2.50	2.00	5.0	1.000
2N5284	TO-111-I	120	80	6.0	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5285	TO-111-I	120	80	6.0	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5336	TO-39	80	80	6.0	30	120	2.0	2.0	1.20	1.80	5.0	.500
2N5337	TO-39	80	80	6.0	60	240	2.0	2.0	1.20	1.80	5.0	.500
2N5338	TO-39	100	100	6.0	30	120	2.0	2.0	1.20	1.80	5.0	.500
2N5339	TO-39	100	100	6.0	60	240	2.0	2.0	1.20	1.80	5.0	.500
2N5427	TO-66	80	80	6.0	50	120	2.0	2.0	.70	1.20	2.0	.200
2N5430	TO-66	100	100	6.0	60	240	2.0	2.0	.70	1.20	2.0	.200
2N5466	TO-3	500	400	8.0	15	60	5.0	3.0	.50	1.50	3.0	.600
2N5467	TO-3	700	400	8.0	15	60	5.0	3.0	.50	1.50	3.0	.600
2N5468	TO-66	500	400	8.0	15	60	5.0	3.0	.50	1.50	3.0	.600
2N5469	TO-66	700	400	8.0	15	60	5.0	3.0	.50	1.50	3.0	.600
2N5541	TO-5	175	130	8.0	30	90	5.0	5.0	.60	1.50	5.0	.500
2N5598	TO-66	80	60	6.0	70	200	5.0	1.0	.85	1.50	2.0	.200
2N5600	TO-66	100	80	6.0	30	90	5.0	1.0	.85	1.50	2.0	.200
2N5602	TO-66	100	80	6.0	70	200	5.0	1.0	.85	1.50	2.0	.200
2N5604	TO-66	120	100	6.0	30	90	5.0	1.0	.85	1.50	2.0	.200
2N5606	TO-66	80	60	6.0	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5608	TO-66	100	80	6.0	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5610	TO-66	100	80	6.0	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5612	TO-66	120	100	6.0	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5614	TO-3	80	60	6.0	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5616	TO-3	100	80	6.0	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5618	TO-3	100	80	6.0	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5620	TO-3	120	100	6.0	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5660	TO-66	250	200	6.0	15		5.0	1.0	.40	1.20	1.0	.100
2N5661	TO-66	400	300	6.0	15		5.0	1.0	.40	1.20	1.0	.100
2N5662	TO-5	250	200	6.0	15		5.0	1.0	.40	1.20	1.0	.100
2N5663	TO-5	400	300	6.0	15		5.0	1.0	.40	1.20	1.0	.100
2N5729	TO-5	100	80	5.0	30	300	2.0	2.0	1.50	1.50	5.0	.500
SDT520	TO-3	200	200	10.0	50	150	5.0	1.0	.40	1.00	1.0	.100
SDT521	TO-3	200	200	10.0	30	90	5.0	1.0	.50	1.00	1.0	.100

SILICON POWER TRANSISTORS

$\theta_{J\text{-}C}$ °C/W	TYPICAL SWITCHING TIMES t_r μs	t_{on} μs	t_s μs	t_f μs	t_{off} μs	V_{CE} V	I_C A	f_T MHz	EL	TYPE NUMBER
5 AMP SILICON NPN										
25.00								60.0	84	2N4300
25.00		.06	.30	.10		30	1.0	60.0	84	2N4305
25.00		.06	.30	.10		30	1.0	60.0	84	2N4307
25.00		.06	.30	.10		30	1.0	60.0	84	2N4309
25.00		.06	.30	.10		30	1.0	60.0	84	2N4311
1.25		.80			1.50	25	2.0	1.0	45	2N4395
1.25		1.00			2.00	25	2.0	1.0	45	2N4396
25.00									84	2N4895
25.00									84	2N4896
25.00									84	2N4897
2.00		.40	.60	.40		30	1.0	60.0	16	2N4913
2.00		.40	.60	.40		30	1.0	60.0	16	2N4914
2.00		.40	.60	.40		30	1.0	60.0	16	2N4915
3.33								60.0	84	2N4998
3.33								60.0	84	2N5000
1.00									85	2N5002
1.00									85	2N5004
3.33								60.0	02	2N5074
3.33								60.0	02	2N5075
3.33								60.0	02	2N5076
3.33								60.0	02	2N5077
25.00								60.0	84	2N5148
15.00									85	2N5152
15.00									85	2N5154
1.25		.80			1.70	125	1.0	4.0	42	2N5157
1.25								4.0	42	2N5239
1.25								4.0	42	2N5240
1.25		.80			1.70	125	2.5	4.0	42	2N5241
3.00									85	2N5284
3.00									85	2N5285
20.00		.20	2.00	.20		40	2.0	60.0	85	2N5336
20.00		.20	2.00	.20		40	2.0	60.0	85	2N5337
20.00		.20	2.00	.20		40	2.0	60.0	85	2N5338
20.00		.20	2.00	.20		40	2.0	60.0	85	2N5339
4.00		.20	2.00	.20		40	2.0	60.0	85	2N5427
4.00		.20	2.00	.20		40	2.0	60.0	85	2N5430
1.25								4.0	42	2N5466
1.25								4.0	42	2N5467
2.50								4.0	42	2N5468
2.50								4.0	42	2N5469
25.00		.60	1.50	.50		20	5.0	60.0	85	2N5541
5.00								60.0	84	2N5598
5.00								60.0	84	2N5600
6.00								60.0	91	2N5602
6.00								60.0	91	2N5604
5.00								60.0	84	2N5606
5.00								60.0	84	2N5608
5.00								60.0	84	2N5610
5.00								60.0	84	2N5612
3.00									78	2N5614
3.00									78	2N5616
3.00									78	2N5618
3.00									78	2N5620
5.00		.25			.85	100	.5	60.0	02	2N5660
4.00		.25			1.20	100	.5	30.0	40	2N5661
20.00		.25			.85	100	.5	30.0	40	2N5662
20.00		.25			1.20	100	.5	30.0	40	2N5663
20.00		.20	3.00	.50		40	2.0	60.0	84	2N5729
1.25		.80			1.70	125	1.0	5.0	42	SDT520
1.25		.80			1.70	125	1.0	5.0	42	SDT521