

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 NPN												
2N1252	TO-5	30	20	5.0	35	45	10.0	.2	1.50	1.30	.2	.020
2N1253	TO-5	30	20	5.0	45		10.0	.2	1.50	1.30	.2	.020
2N1506	TO-5	60	40	4.0	10	100	28.0	.1	1.50	1.50	.2	.050
2N1506A	TO-5	80	80	5.0	10	100	28.0	.1	.60	1.50	.2	.050
2N1714	TO-5	90	60	6.0	20	60	5.0	.2	2.00	1.60	.2	.020
2N1716	TO-5	90	60	6.0	40	120	5.0	.2	2.00	1.60	.2	.020
2N1718	MT-13	90	60	6.0	20	60	5.0	.2	2.00	1.60	.2	.020
2N1720	MT-13	90	60	6.0	40	120	5.0	.2	2.00	1.60	.2	.020
2N1889	TO-5	100	60	7.0	40	120	10.0	.2	5.00	1.30	.1	.010
2N1890	TO-5	100	60	7.0	40	120	10.0	.2	5.00	1.30	.1	.010
2N1974	TO-5	100	60	7.0	35		10.0	.1	1.20	.90	.1	.010
2N1975	TO-5	100	60	7.0	15		10.0	.1	.60	1.50	.1	.010
2N2987	TO-5	95	80	7.0	25	75	5.0	.2	.80	1.00	.2	.020
2N2988	TO-5	155	100	7.0	25	75	5.0	.2	.80	1.00	.2	.020
2N2989	TO-5	95	80	7.0	60	120	5.0	.2	.80	1.00	.2	.020
2N2990	TO-5	155	100	7.0	60	120	5.0	.2	.80	1.00	.2	.020
2N2991	MT-13	95	80	7.0	25	75	5.0	.2	3.00	1.40	.5	.050
2N2992	MT-13	155	100	7.0	25	75	5.0	.2	3.00	1.40	.5	.050
2N2993	MT-13	95	80	7.0	60	120	5.0	.2	3.00	1.40	.5	.050
2N2994	MT-13	155	100	7.0	60	120	5.0	.2	3.00	1.40	.5	.050
2N3665	TO-5	120	80	8.0	40	120	10.0	.2	1.20	1.80	.5	.050
2N3666	TO-5	120	80	8.0	100	300	10.0	.2	1.20	1.80	.5	.050
2N3766	TO-66	80	60	6.0	40	160	10.0	.5	2.50	1.50	1.0	.100
2N3767	TO-66	100	80	6.0	40	160	10.0	.5	2.50	1.50	1.0	.100
2N3917	TO-66	80	40	6.0	30	120	4.0	1.0	1.20	1.50	1.0	.100
2N3918	TO-66	80	40	6.0	100	300	4.0	1.0	1.20	1.50	1.0	.100
2N4000	TO-5	100	80	8.0	30	120	2.0	.5	.50	1.20	1.0	.100
2N4001	TO-5	120	100	8.0	40	120	2.0	.5	.50	1.20	1.0	.100
2N4225	TO-5	80	40	6.0	40	150	5.0	1.0	.50	1.25	1.0	.100
2N4226	TO-5	100	60	6.0	40	150	5.0	1.0	.50	1.25	1.0	.100
2N4237	TO-5	50	40	6.0	30		10.0	.1	.60	1.50	1.0	.100
2N4238	TO-5	80	60	6.0	30		10.0	.1	.60	1.50	1.0	.100
2N4239	TO-5	100	80	6.0	30		10.0	.1	.60	1.50	1.0	.100
2N4862	TO-46	140	120	8.0	50	150	2.0	.5	.20	1.20	.5	.050
2N4863	TO-5	140	120	8.0	50	150	2.0	.5	.20	1.20	.5	.050
2N4864	TO-66	140	120	8.0	50	150	2.0	.5	.20	1.20	.5	.050
2N4910	TO-66	40	40	5.0	20	100	1.0	.5	.60	1.30	1.0	.100
2N4911	TO-66	60	60	5.0	20	100	1.0	.5	.60	1.30	1.0	.100
2N4912	TO-66	80	80	5.0	20	100	1.0	.5	.60	1.30	1.0	.100
2N5150	TO-5	100	80	6.0	70	200	5.0	1.0	.85	1.50	2.0	.200
2N5681	TO-5	100	100	4.0	40	150	2.0	.3	.60	1.00	.2	.020
2N5682	TO-5	120	120	4.0	40	150	2.0	.3	.60	1.00	.2	.020
SDT5001	TO-46	60	40	8.0	50	150	5.0	.5	.35	1.20	.5	.050
SDT5002	TO-46	80	60	8.0	50	150	5.0	.5	.35	1.20	.5	.050
SDT5003	TO-46	100	80	8.0	50	150	5.0	.5	.35	1.20	.5	.050
SDT5004	TO-46	140	100	8.0	50	150	5.0	.5	.35	1.20	.5	.050
SDT5005	TO-46	180	120	8.0	50	150	5.0	.5	.35	1.20	.5	.050
SDT5006	TO-46	60	40	8.0	30		5.0	.5	.35	1.20	.5	.050
SDT5007	TO-46	80	60	8.0	30		5.0	.5	.35	1.20	.5	.050
SDT5008	TO-46	100	80	8.0	30		5.0	.5	.35	1.20	.5	.050
SDT5009	TO-46	140	100	8.0	30		5.0	.5	.35	1.20	.5	.050
SDT5010	TO-46	180	120	8.0	30		5.0	.5	.35	1.20	.5	.050
SDT5011	TO-46	60	40	8.0	120		5.0	.5	.35	1.20	.5	.050
SDT5012	TO-46	80	60	8.0	120		5.0	.5	.35	1.20	.5	.050
SDT5013	TO-46	100	80	8.0	120		5.0	.5	.35	1.20	.5	.050
SDT5014	TO-46	140	100	8.0	120		5.0	.5	.35	1.20	.5	.050
SDT5015	TO-46	180	120	8.0	120		5.0	.5	.35	1.20	.5	.050
SDT5051	TO-46	175	150	8.0	50	150	5.0	.5	.35	1.20	.5	.050
SDT5052	TO-46	200	175	8.0	50	150	5.0	.5	.35	1.20	.5	.050

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 NPN										
25.00		.25	2.00	.50		20	.5	80.0	91	2N1252
25.00		.25	2.00	.50		20	.5	80.0	91	2N1253
25.00		.25	2.00	.50		20	.5	80.0	91	2N1506
25.00		.25	2.00	.50		20	.5	80.0	91	2N1506A
25.00		.25	2.00	.50		20	.5	80.0	91	2N1714
25.00		.25	2.00	.50		20	.5	80.0	91	2N1716
25.00		.25	2.00	.50		20	.5	80.0	91	2N1718
25.00		.25	2.00	.50		20	.5	80.0	91	2N1720
25.00		.25	2.00	.50		20	.5	80.0	91	2N1889
25.00		.25	2.00	.50		20	.5	80.0	91	2N1890
25.00		.25	2.00	.50		20	.5	80.0	91	2N1974
25.00		.25	2.00	.50		20	.5	80.0	91	2N1975
25.00		.25	2.00	.50		20	.5	80.0	91	2N2987
25.00		.25	2.00	.50		20	.5	80.0	91	2N2988
25.00		.25	2.00	.50		20	.5	80.0	91	2N2989
25.00		.25	2.00	.50		20	.5	80.0	91	2N2990
25.00		.25	2.00	.50		20	.5	80.0	91	2N2991
25.00		.25	2.00	.50		20	.5	80.0	91	2N2992
25.00		.25	2.00	.50		20	.5	80.0	91	2N2993
25.00		.25	2.00	.50		20	.5	80.0	91	2N2994
25.00		.25	2.00	.50		20	.5	80.0	91	2N3665
25.00		.25	2.00	.50		20	.5	80.0	91	2N3666
6.00		.25	2.00	.50		20	.5	80.0	91	2N3766
6.00		.25	2.00	.50		20	.5	80.0	91	2N3767
6.00		.25	2.00	.50		20	.5	80.0	91	2N3917
6.00		.25	2.00	.50		20	.5	80.0	91	2N3918
25.00		.25	2.00	.50		20	.5	80.0	91	2N4000
25.00		.25	2.00	.50		20	.5	80.0	91	2N4001
25.00	30.00n		50.00n	25.00n		20	1.5	350.0	R3	2N4225
25.00	30.00n		50.00n	25.00n		20	1.5	350.0	R3	2N4226
25.00		.25	2.00	.50		20	.5	80.0	91	2N4237
25.00		.25	2.00	.50		20	.5	80.0	91	2N4238
25.00		.25	2.00	.50		20	.5	80.0	91	2N4239
25.00		.25	2.00	.50		20	.5	80.0	91	2N4862
25.00		.25	2.00	.50		20	.5	80.0	91	2N4863
6.00		.25	2.00	.50		20	.5	80.0	91	2N4864
6.00		.25	2.00	.50		20	.5	80.0	91	2N4910
6.00		.25	2.00	.50		20	.5	80.0	91	2N4911
6.00		.25	2.00	.50		20	.5	80.0	91	2N4912
25.00									91	2N5150
25.00		.25	2.00	.50		20	.5	80.0	91	2N5681
25.00		.25	2.00	.50		20	.5	80.0	91	2N5682
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5001
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5002
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5003
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5004
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5005
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5006
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5007
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5008
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5009
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5010
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5011
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5012
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5013
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5014
25.00		.25	2.00	.50		20	.5	80.0	91	SDT5015
25.00		.40	2.00	.60		20	.5	80.0	91	SDT5051
25.00		.40	2.00	.60		20	.5	80.0	91	SDT5052