

SILICON POWER TRANSISTORS

TYPE NUMBER	CASE TYPE	V _{CBO} V	V _{CEO} V	V _{EB0} 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

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.						
5 AMP SILICON NPN												
2N2657	TO-5	80	60	8.0	40	120	2.0	1.0	.50	1.50	1.0	.100
2N2658	TO-5	100	80	8.0	40	120	2.0	1.0	.50	1.50	1.0	.100
2N2850-1	TO-5	100	80	5.0	40	120	1.0	1.0	.25	1.20	1.0	.050
2N2851-1	TO-5	100	80	5.0	40	120	1.0	1.0	.40	1.20	1.0	.050
2N2852-1	TO-5	100	80	5.0	20	60	1.0	1.0	.40	1.20	1.0	.100
2N2853-1	TO-5	60	40	5.0	40		1.0	1.0	1.50	2.00	5.0	.500
2N2855-1	TO-5	60	40	5.0	40	120	1.0	1.0	.40	1.20	1.0	.050
2N2856-1	TO-5	20	60	5.0	40	120	1.0	1.0	.40	1.20	1.0	.100
2N2877	TO-111	80	60	8.0	20	60	2.0	1.0	.25	1.20	1.0	.100
2N2878	TO-111	60	80	8.0	40	120	2.0	1.0	.25	1.20	1.0	.100
2N2879	TO-111	100	80	8.0	20	60	2.0	1.0	.25	1.20	1.0	.100
2N2880	TO-111	100	80	8.0	40	120	2.0	1.0	.25	1.20	1.0	.100
2N2891	TO-5	100	80	5.0	50	150	2.0	1.0	.75	1.30	2.0	.200
2N2892	TO-111	100	80	5.0	30	90	2.0	1.0	.75	1.30	2.0	.200
2N2893	TO-111	100	80	5.0	50	150	2.0	1.0	.75	1.30	2.0	.200
2N2984	TO-5	185	120	8.0	20	60	5.0	1.0	1.25	2.00	2.0	.400
2N2985	TO-5	155	80	8.0	40	120	5.0	1.0	1.25	2.00	2.0	.400
2N2986	TO-5	185	120	8.0	40	120	5.0	1.0	1.25	2.00	2.0	.400
2N3016	TO-5	100	50	4.0	60	150	5.0	1.0	.75	1.50	5.0	.500
2N3017	MT-27	100	50	4.0	60	150	5.0	1.0	.75	1.50	5.0	.500
2N3226	TO-3	35	35	6.0	20	50	3.0	2.0	1.00	2.00	2.0	.200
2N3418	TO-5	85	60	8.0	20	60	2.0	1.0	.50	1.40	2.0	.200
2N3419	TO-5	125	80	8.0	20	60	2.0	1.0	.50	1.40	2.0	.200
2N3420	TO-5	85	60	8.0	40	120	2.0	1.0	.50	1.40	2.0	.200
2N3421	TO-5	125	80	8.0	40	120	2.0	1.0	.50	1.40	2.0	.200
2N3469	TO-5	35	25	8.0	100		2.0	1.0	.50	1.50	1.0	.100
2N3506	TO-5	60	40	5.0	40	200	2.0	1.5	1.00	1.40	1.5	.150
2N3507	TO-5	80	50	5.0	30	150	2.0	1.5	1.00	1.40	1.5	.150
2N3619	TO-5	75	40	4.0	40		5.0	1.0	.75	1.30	1.0	.100
2N3623	TO-5	75	40	4.0	40		5.0	1.0	.75	1.30	1.0	.100
2N3627	TO-5	100	50	4.0	40		5.0	1.0	.75	1.30	1.0	.100
2N3675	TO-5	90	55	7.0	12	60	1.0	1.0	.80	1.80	1.0	.100
2N3676	TO-5	90	90	7.0	12	60	1.0	1.0	.80	1.80	1.0	.100
2N3744	TO-111-I	60	40	7.0	20	60	5.0	1.0	.25	1.20	1.0	.100
2N3745	TO-111-I	80	60	8.0	20	60	5.0	1.0	.25	1.20	1.0	.100
2N3746	TO-111-I	100	80	8.0	20	60	5.0	1.0	.25	1.20	1.0	.100
2N3747	TO-111-I	60	40	7.0	40	120	5.0	1.0	.25	1.20	1.0	.100
2N3748	TO-111-I	80	60	8.0	40	120	5.0	1.0	.25	1.20	1.0	.100
2N3749	TO-111-I	100	80	8.0	40	120	5.0	1.0	.25	1.20	1.0	.100
2N3750	TO-111-I	60	40	7.0	100	300	5.0	1.0	.25	1.20	1.0	.100
2N3751	TO-111-I	80	60	8.0	100	300	5.0	1.0	.25	1.20	1.0	.100
2N3752	TO-111-I	100	80	8.0	100	300	5.0	1.0	.25	1.20	1.0	.100
2N3788	TO-3	400	325	5.0	20	180	5.0	.5				
2N3850	TO-111	100	80	5.0	50	150	1.0	1.0	.50	1.30	2.0	.200
2N3851	TO-111	100	80	5.0	30	90	1.0	1.0	.50	1.30	2.0	.200
2N3852	TO-111	60	40	5.0	50	150	1.0	1.0	.50	1.30	2.0	.200
2N3853	TO-111	60	40	5.0	30	90	1.0	1.0	.50	1.30	2.0	.200
2N3878	TO-66	120	50	7.0	50	200	5.0	.5				
2N3879	TO-66	120	75	7.0	12	100	2.0	4.0				
2N3902	TO-3	400	400	5.0	30	90	5.0	1.0	2.50	2.00	2.5	.500
2N3928	TO-5	80	40	4.0	40	150	5.0	1.0	.50	1.25	1.0	.100
2N3929	TO-111	80	40	4.0	40	150	5.0	1.0	.50	1.25	1.0	.100
2N3996	TO-111-I	100	80	8.0	40	120	2.0	1.0	.25	1.60	1.0	.100
2N3997	TO-111-I	100	80	8.0	80	240	2.0	1.0	.25	1.60	1.0	.100
2N3998	TO-111	100	80	8.0	40	120	2.0	1.0	.25	1.60	1.0	.100
2N3999	TO-111	100	80	8.0	80	240	2.0	1.0	.25	1.60	1.0	.100
2N4150	TO-5	100	80	5.0	40	120	5.0	5.0	.60	1.50	5.0	.500
2N4231	TO-66	40	40	5.0	25	100	2.0	1.5	.70	1.40	1.5	.150
2N4232	TO-66	60	60	5.0	25	100	2.0	1.5	.70	1.40	1.5	.150
2N4233	TO-66	80	80	5.0	25	100	2.0	1.5	.70	1.40	1.5	.150

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					
5 AMP SILICON NPN										
25.00		.10	.06	.08		10	2.0	60.0	84	2N2657
25.00		.10	.06	.08		10	2.0	60.0	84	2N2658
25.00		175.00n	.40	175.00n		30	1.0	60.0	84	2N2850-1
25.00		175.00n	.40	175.00n		30	1.0	60.0	84	2N2851-1
25.00		175.00n	.40	175.00n		30	1.0	60.0	84	2N2852-1
25.00		175.00n	.40	175.00n		30	1.0	60.0	84	2N2853-1
25.00		175.00n	.40	175.00n		30	1.0	60.0	84	2N2855-1
25.00		175.00n	.40	175.00n		30	1.0	60.0	84	2N2856-1
3.33		.12	.60	.08		25	1.0	60.0	84	2N2877
3.33		.08	.60	.08		25	1.0	60.0	84	2N2878
3.33		.12	.60	.08		25	1.0	60.0	84	2N2879
3.33		.08	.60	.08		25	1.0	60.0	84	2N2880
25.00		.30			1.50	20	1.0	60.0	91	2N2891
3.33		.30			1.50	20	1.0	60.0	84	2N2892
3.33		.30			1.50	20	1.0	60.0	84	2N2893
25.00								60.0	84	2N2984
25.00								60.0	84	2N2985
25.00								60.0	84	2N2986
25.00								60.0	84	2N3016
25.00								60.0	84	2N3017
2.33								1.0	45	2N3226
25.00		.30			1.20	20	1.0	60.0	84	2N3418
25.00		.30			1.20	20	1.0	60.0	84	2N3419
25.00		.30			1.20	20	1.0	60.0	84	2N3420
25.00		.30			1.20	20	1.0	60.0	84	2N3421
25.00								60.0	84	2N3469
25.00								60.0	84	2N3506
25.00								60.0	84	2N3507
25.00								60.0	84	2N3619
25.00								60.0	84	2N3623
25.00								60.0	84	2N3627
25.00		5.00	5.00	5.00			1.0	60.0	84	2N3675
25.00		5.00	5.00	5.00			1.0	60.0	84	2N3676
3.33		.12	.06	.08		25	1.0	60.0	84	2N3744
3.33		.12	.06	.08		25	1.0	60.0	84	2N3745
3.33		.12	.06	.08		25	1.0	60.0	84	2N3746
3.33		.08	.06	.08		25	1.0	60.0	84	2N3747
3.33		.08	.06	.08		25	1.0	60.0	84	2N3748
3.33		.08	.06	.08		25	1.0	60.0	84	2N3749
3.33		.08	.06	.08		25	1.0	60.0	84	2N3750
3.33		.08	.06	.08		25	1.0	60.0	84	2N3751
3.33		.08	.06	.08		25	1.0	60.0	84	2N3752
1.25								4.0	42	2N3788
3.33		.20	.70	.20		30	1.0	60.0	84	2N3850
3.33		.20	.70	.20		30	1.0	60.0	84	2N3851
3.33		.20	.70	.20		30	1.0	60.0	84	2N3852
3.33		.20	.70	.20		30	1.0	60.0	84	2N3853
5.00								60.0	84	2N3878
5.00								60.0	84	2N3879
1.25	.80	.90		.80		125	1.0	4.0	42	2N3902
25.00		.04	.05	.03		20	1.5	60.0	84	2N3928
3.33		.04	.05	.03		20	1.5	60.0	84	2N3929
3.33		.30			1.50	20	1.0	60.0	84	2N3996
3.33		.30			2.00	20	1.0	60.0	84	2N3997
3.33		.30			1.50	20	1.0	60.0	84	2N3998
3.33		.30			1.50	20	1.0	60.0	84	2N3999
25.00		.20	2.00	.20		20	5.0	60.0	85	2N4150
5.00								60.0	84	2N4231
5.00								60.0	84	2N4232
5.00								60.0	84	2N4233