

## 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.						
<b>5 AMP SILICON NPN</b>												
SDT7413	TO-5	100	80	5.0	20	60	5.0	5.0	.60	1.50	5.0	.500
SDT7414	TO-5	60	40	5.0	40	120	5.0	5.0	.60	1.50	5.0	.500
SDT7415	TO-5	80	60	5.0	40	120	5.0	5.0	.60	1.50	5.0	.500
SDT7416	TO-5	100	80	5.0	40	120	5.0	5.0	.60	1.50	5.0	.500
SDT7417	TO-5	60	40	5.0	100		5.0	5.0	.60	1.50	5.0	.500
SDT7418	TO-5	80	60	5.0	100		5.0	5.0	.60	1.50	5.0	.500
SDT7419	TO-5	100	80	5.0	100		5.0	5.0	.60	1.50	.50	.500
SDT9001	TO-5	50	30	5.0	20		5.0	1.0	.70	2.00	1.0	.100
SDT9002	TO-5	70	50	5.0	20		5.0	1.0	.70	2.00	1.0	.100
SDT9003	TO-5	90	70	5.0	20		5.0	1.0	.70	2.00	1.0	.100
SDT9004	TO-5	50	30	5.0	30	90	5.0	1.0	.70	2.00	1.0	.100
SDT9005	TO-5	70	50	5.0	30	90	5.0	1.0	.70	2.00	1.0	.100
SDT9006	TO-5	90	70	5.0	30	90	5.0	1.0	.70	2.00	1.0	.100
SDT9007	TO-5	50	30	5.0	50	150	5.0	1.0	.70	2.00	1.0	.100
SDT9008	TO-5	70	50	5.0	50	150	5.0	1.0	.70	2.00	1.0	.100
SDT9009	TO-5	90	70	5.0	50	150	5.0	1.0	.70	2.00	1.0	.100
SDT9010	TO-5	50	30	5.0	100		5.0	1.0	.70	2.00	1.0	.100
SDT9011	TO-5	70	50	5.0	100		5.0	1.0	.70	2.00	1.0	.100
SDT9012	TO-5	90	70	5.0	100		5.0	1.0	.70	2.00	1.0	.100
<b>5 AMP SILICON PNP</b> Observe (-) Negative Polarity												
2N3021	TO-3	30	30	4.0	20	60	2.0	1.0	1.50	1.50	3.0	.300
2N3022	TO-3	45	45	4.0	20	60	2.0	1.0	1.50	1.50	3.0	.300
2N3023	TO-3	60	60	4.0	20	60	2.0	1.0	1.50	1.50	3.0	.300
2N3024	TO-3	30	30	4.0	50	180	2.0	1.0	1.00	1.50	3.0	.300
2N3025	TO-3	45	45	4.0	50	180	2.0	1.0	1.00	1.50	3.0	.300
2N3026	TO-3	60	60	4.0	50	180	2.0	1.0	1.00	1.50	3.0	.300
2N3171	TO-3	40	40	10.0	12	36	3.0	1.0	.75	1.80	1.0	.140
2N3172	TO-3	60	60	10.0	12	36	3.0	1.0	.75	1.80	1.0	.140
2N3173	TO-3	80	80	10.0	12	36	3.0	1.0	.75	1.80	1.0	.140
2N3174	TO-3	100	100	10.0	12	36	3.0	1.0	.75	1.80	1.0	.140
2N3183	TO-3	40	40	10.0	10	30	3.0	2.0	1.00	2.00	2.0	.300
2N3184	TO-3	60	60	10.0	10	30	3.0	2.0	1.00	2.00	2.0	.300
2N3185	TO-3	80	80	10.0	10	30	3.0	2.0	1.00	2.00	2.0	.300
2N3186	TO-3	100	100	10.0	10	30	3.0	2.0	1.00	2.00	2.0	.300
2N3195	TO-3	40	40	10.0	10	30	3.0	3.0	.90	1.90	3.0	.600
2N3196	TO-3	60	60	10.0	10	30	3.0	3.0	.90	1.90	3.0	.600
2N3197	TO-3	80	80	10.0	10	30	3.0	3.0	.90	1.90	3.0	.600
2N3198	TO-3	100	100	10.0	10	30	3.0	3.0	.90	1.90	3.0	.600
2N3202	TO-5	40	40	10.0	20	60	2.0	1.0	.30	1.30	1.0	.100
2N3203	TO-5	60	60	10.0	20	60	2.0	1.0	.30	1.30	1.0	.100
2N3204	TO-5	80	80	10.0	20	60	2.0	1.0	.30	1.30	1.0	.100
2N3719	TO-5	40	40	4.0	25	180	1.5	1.0				
2N3720	TO-5	60	60	4.0	25	180	1.5	1.0				
2N4901	TO-3	40	40	5.0	20	80	2.0	1.0	.40	1.20	1.0	.100
2N4902	TO-3	60	60	5.0	20	80	2.0	1.0	.40	1.20	1.0	.100
2N4903	TO-3	80	80	5.0	20	80	2.0	1.0	.40	1.20	1.0	.100
2N4904	TO-3	40	40	5.0	25	100	2.0	2.5	1.00	1.40	2.5	.250
2N4905	TO-3	60	60	5.0	25	100	2.0	2.5	1.00	1.40	2.5	.250
2N4906	TO-3	80	80	5.0	25	100	2.0	2.5	1.00	1.40	2.5	.250
2N4907	TO-3	40	40	5.0	20	80	4.0	4.0	.75	1.50	4.0	.400
2N4908	TO-3	60	60	5.0	20	80	4.0	4.0	.75	1.50	4.0	.400
2N4909	TO-3	80	80	5.0	20	80	4.0	4.0	.75	1.50	4.0	.400
2N4999	TO-111-I	100	80	5.5	30	90	5.0	1.0	.85	1.50	2.0	.200
2N5001	TO-111-I	100	80	5.5	70	200	5.0	1.0	.85	1.50	2.0	.200
2N5003	TO-111-I	100	80	5.5	30	90	5.0	2.5	1.50	2.20	5.0	.500
2N5005	TO-111-I	100	80	5.5	70	200	5.0	2.5	1.50	2.20	5.0	.500
2N5147	TO-5	100	80	5.5	30	90	5.0	1.0	.85	1.50	2.0	.200
2N5149	TO-5	100	80	5.5	70	120	5.0	1.0	.85	1.50	2.0	.200
2N5151	TO-5	100	80	5.5	30	90	5.0	2.5	1.50	2.20	5.0	.500

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$\theta_{J-C}$ °C/W	TYPICAL SWITCHING TIMES					$V_{CE}$ V	$I_C$ A	$f_T$ MHz	EL	TYPE NUMBER
	$t_r$ $\mu s$	$t_{on}$ $\mu s$	$t_s$ $\mu s$	$t_f$ $\mu s$	$t_{off}$ $\mu s$					
<b>5 AMP SILICON NPN</b>										
20.00	.50		1.50	.50		30	5.0	40.0	85	SDT7413
20.00	.50		1.50	.50		30	5.0	40.0	85	SDT7414
20.00	.50		1.50	.50		30	5.0	40.0	85	SDT7415
20.00	.50		1.50	.50		30	5.0	40.0	85	SDT7416
20.00	.50		1.50	.50		30	5.0	40.0	85	SDT7417
20.00	.50		1.50	.50		30	5.0	40.0	85	SDT7418
20.00	.50		1.50	.50		30	5.0	40.0	85	SDT7419
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9001
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9002
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9003
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9004
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9005
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9006
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9007
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9008
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9009
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9010
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9011
25.00	.50		1.50	.30		30	2.0	60.0	84	SDT9012
<b>5 AMP SILICON PNP</b> Observe (–) Negative Polarity										
2.30	.10		325.00n	75.00n		12	1.0	60.0	71	2N3021
2.30	.10		325.00n	75.00n		12	1.0	60.0	71	2N3022
2.30	.10		325.00n	75.00n		12	1.0	60.0	71	2N3023
2.30	.10		325.00n	75.00n		12	1.0	60.0	71	2N3024
2.30	.10		325.00n	75.00n		12	1.0	60.0	71	2N3025
2.30	.10		325.00n	75.00n		12	1.0	60.0	71	2N3026
2.30								60.0	71	2N3171
2.30								60.0	71	2N3172
2.30								60.0	71	2N3173
2.30								60.0	71	2N3174
2.30								60.0	71	2N3183
2.30								60.0	71	2N3184
2.30								60.0	71	2N3185
2.30								60.0	71	2N3186
2.30								60.0	71	2N3195
2.30								60.0	71	2N3196
2.30								60.0	71	2N3197
2.30								60.0	71	2N3198
25.00								60.0	71	2N3202
25.00								60.0	71	2N3203
25.00								60.0	71	2N3204
25.00								60.0	71	2N3719
25.00								60.0	71	2N3720
2.30								60.0	71	2N4901
2.30								60.0	71	2N4902
2.30								60.0	71	2N4903
2.30								60.0	71	2N4904
2.30								60.0	71	2N4905
2.30								60.0	71	2N4906
2.30								60.0	71	2N4907
2.30								60.0	71	2N4908
2.30								60.0	71	2N4909
3.33								60.0	71	2N4999
3.33								60.0	71	2N5001
3.00								50.0	67	2N5003
3.00								50.0	67	2N5005
25.00								60.0	71	2N5147
25.00								60.0	71	2N5149
25.00								50.0	71	2N5151