

# RELIABLE POWER SEMICONDUCTOR THYRISTORS

TYPE	$\frac{V_{DRM}}{V_{RRM}}$ VOLTS	$I_{T(RMS)}$ @T <sub>C</sub> AMP	$I_{T(AV)}$ AMP	$I_{TSM}$ AMP	$I^2t$ AMP <sup>2</sup> SEC	$V_{TM}$ @ $I_{TM}$ VOLTS AMP	$R_{TH(J-C)}$ °C/W	$I_{GT}$ mA
✓ SC126F	50	12 @ 75°C	7.7 @ 75°C	120	75	1.8 24	2.5	25
✓ SC126A	100	12 @ 75°C	7.7 @ 75°C	120	75	1.8 24	2.5	25
✓ SC126B	200	12 @ 75°C	7.7 @ 75°C	120	75	1.8 24	2.5	25
✓ SC126C	300	12 @ 75°C	7.7 @ 75°C	120	75	1.8 24	2.5	25
✓ SC126D	400	12 @ 75°C	7.7 @ 75°C	120	75	1.8 24	2.5	25
✓ SC126E	500	12 @ 75°C	7.7 @ 75°C	120	75	1.8 24	2.5	25
✓ SC126M	600	12 @ 75°C	7.7 @ 75°C	120	75	1.8 24	2.5	25
<i>dr</i> <i>27m</i> 2N6394	50	7.6 @ 75°C	5 @ 75°C	100	32	2 24	3.5	60
2N6395	100	7.6 @ 75°C	5 @ 75°C	100	32	2 24	3.5	60
2N6396	200	7.6 @ 75°C	5 @ 75°C	100	32	2 24	3.5	60
2N6397	400	7.6 @ 75°C	5 @ 75°C	100	32	2 24	3.5	60
2N6398	600	7.6 @ 75°C	5 @ 75°C	100	32	2 24	3.5	60
2N6399	800	7.6 @ 75°C	5 @ 75°C	100	32	2 24	3.5	60
✓ STY504	50	4.0 @ 75°C	2.5 @ 75°C	60	-	2 8	4	50
✓ STY1004	100	4.0 @ 75°C	2.5 @ 75°C	60	-	2 8	4	50
✓ STY2004	200	4.0 @ 75°C	2.5 @ 75°C	60	-	2 8	4	50
✓ STY3004	300	4.0 @ 75°C	2.5 @ 75°C	60	-	2 8	4	50
✓ STY4004	400	4.0 @ 75°C	2.5 @ 75°C	60	-	2 8	4	50
✓ STY5004	500	4.0 @ 75°C	2.5 @ 75°C	60	-	2 8	4	50
✓ STY6004	600	4.0 @ 75°C	2.5 @ 75°C	60	-	2 8	4	50
<i>dr</i> <i>27m</i> 2N3668	100	12.5 @ 80°C	8 @ 80°C	200	165	1.8 25	1.7	40
2N3669	200	12.5 @ 80°C	8 @ 80°C	200	165	1.8 25	1.7	40
2N3670	400	12.5 @ 80°C	8 @ 80°C	200	165	1.8 25	1.7	40
2N4103	600	12.5 @ 80°C	8 @ 80°C	200	165	1.8 25	1.7	40
✓ SN800	50	12 @ 80°C	8 @ 80°C	120	75	2.5 15	1.7	50
✓ SN801	100	12 @ 80°C	8 @ 80°C	120	75	2.5 15	1.7	50
✓ SN802	200	12 @ 80°C	8 @ 80°C	120	75	2.5 15	1.7	50
✓ SN803	300	12 @ 80°C	8 @ 80°C	120	75	2.5 15	1.7	50
✓ SN804	400	12 @ 80°C	8 @ 80°C	120	75	2.5 15	1.7	50
✓ SN805	500	12 @ 80°C	8 @ 80°C	120	75	2.5 15	1.7	50
✓ SN806	600	12 @ 80°C	8 @ 80°C	120	75	2.5 15	1.7	50



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TYPE	$\frac{V_{DRM}}{V_{RRM}}$	$I_{T(RMS)}$ @T <sub>C</sub>	$I_{T(AV)}$	$I_{TSM}$	I <sup>2</sup> t	V <sub>TM</sub> @ I <sub>TM</sub>	R <sub>TH(J-C)</sub>	I <sub>GT</sub>
	VOLTS	AMP	AMP	AMP	AMP <sup>2</sup> SEC	VOLTS AMP	°C/W	mA
SN500	50	8 @ 80°C	5 @ 80°C	80	35	2.5 10	-	50
SN501	100	8 @ 80°C	5 @ 80°C	80	35	2.5 10	-	50
SN502	200	8 @ 80°C	5 @ 80°C	80	35	2.5 10	-	50
SN503	300	8 @ 80°C	5 @ 80°C	80	35	2.5 10	-	50
SN504	400	8 @ 80°C	5 @ 80°C	80	35	2.5 10	-	50
SN505	500	8 @ 80°C	5 @ 80°C	80	35	2.5 10	-	50
SN506	600	8 @ 80°C	5 @ 80°C	80	35	2.5 10	-	50
SN200	50	3.2 @ 75°C	2 @ 75°C	32	5	2.5 5	15	20
SN201	100	3.2 @ 75°C	2 @ 75°C	32	5	2.5 5	15	20
SN202	200	3.2 @ 75°C	2 @ 75°C	32	5	2.5 5	15	20
SN203	300	3.2 @ 75°C	2 @ 75°C	32	5	2.5 5	15	20
SN204	400	3.2 @ 75°C	2 @ 75°C	32	5	2.5 5	15	20
SN205	500	3.2 @ 75°C	2 @ 75°C	32	5	2.5 5	15	20
SN206	600	3.2 @ 75°C	2 @ 75°C	32	5	2.5 5	15	20
SN100	50	1.6 @ 70°C	10 @ 85°C	15	1	2.0 @2A	20	5
SN101	100	1.6 @ 70°C	10 @ 85°C	15	1	2.0 @2A	20	5
SN102	200	1.6 @ 70°C	10 @ 85°C	15	1	2.0 @2A	20	5
SN103	300	1.6 @ 70°C	10 @ 85°C	15	1	2.0 @2A	20	10
SN104	400	1.6 @ 70°C	10 @ 85°C	15	1	2.0 @2A	20	10
SN105	500	1.6 @ 70°C	10 @ 85°C	15	1	2.0 @2A	20	10
SN106	600	1.6 @ 70°C	10 @ 85°C	15	1	2.0 @2A	20	10
2N5060	30	0.8 @ 35°C	0.5 @ 55°C	6	0.18	1.7 @1A	75	0.2
2N5061	60	0.8 @ 35°C	0.5 @ 55°C	6	0.18	1.7 @1A	75	0.2
2N5062	100	0.8 @ 35°C	0.5 @ 55°C	6	0.18	1.7 @1A	75	0.2
2N5063	150	0.8 @ 35°C	0.5 @ 55°C	6	0.18	1.7 @1A	75	0.2
2N5064	200	0.8 @ 35°C	0.5 @ 55°C	6	0.18	1.7 @1A	75	0.2
2N6564	300	0.8 @ 35°C	0.5 @ 55°C	6	0.18	1.7 @1A	75	0.2
2N6565	400	0.8 @ 35°C	0.5 @ 55°C	6	0.18	1.7 @1A	75	0.2
SN301S	100	3 @ 75°C	2	40	-	2.5(max) 6	8.8	20
SN601S	100	6 @ 75°C	3.75	50	25	2.5(max) 12	4.4	20
SN602S	200	6 @ 75°C	3.75	50	25	2.5(max) 12	4.4	20

$I_{GP}$	$P_{G(AV)}$	$P_{GM}$	$T_{VJ}$	$I_{DRM}$	$I_H$	$\frac{dV}{dt}$	$t_q$	Outline	Fig
A	WATT	WATT	°C	$I_{RRM}$ mA	mA	V/MICRO SEC	MICRO SEC		
0.5	0.5	5	125	2.5 @ 100°C	50	100	-	TO-3	13
0.5	0.5	5	125	2.5 @ 100°C	50	100	-	TO-3	13
0.5	0.5	5	125	2.5 @ 100°C	50	100	-	TO-3	13
0.5	0.5	5	125	2.5 @ 100°C	50	100	-	TO-3	13
0.5	0.5	5	125	2.5 @ 100°C	50	100	-	TO-3	13
0.5	0.5	5	125	2.5 @ 100°C	50	100	-	TO-3	13
0.5	0.5	5	125	2.5 @ 100°C	50	100	-	TO-3	13
0.2	0.5	2	105	1.5 @ 100°C	20	100	-	TO-39	14
0.2	0.5	2	105	1.5 @ 100°C	20	100	-	TO-39	14
0.2	0.5	2	105	1.5 @ 100°C	20	100	-	TO-39	14
0.2	0.5	2	105	1.5 @ 100°C	20	100	-	TO-39	14
0.2	0.5	2	105	1.5 @ 100°C	20	100	-	TO-39	14
0.2	0.5	2	105	1.5 @ 100°C	20	100	-	TO-39	14
0.2	0.5	2	105	1.5 @ 100°C	20	100	-	TO-39	14
0.1	0.03	0.1	125	1mA @ 100°C	10	100	-	TO-39	14
0.1	0.03	0.1	125	1mA @ 100 °C	10	100	-	TO-39	14
0.1	0.03	0.1	125	1mA @ 100°C	10	100	-	TO-39	14
0.1	0.03	0.1	125	1mA @ 125°C	10	100	-	TO-39	14
0.1	0.03	0.1	125	1mA @ 125°C	10	100	-	TO-39	14
0.1	0.03	0.1	125	1mA @ 125°C	10	100	-	TO-39	14
0.1	0.03	0.1	125	1mA @ 125°C	10	100	-	TO-39	14
1	0.01	0.1	125	0.05 @ 125°C	5	50	-	TO-92/18	15,16
1	0.01	0.1	125	0.05 @ 125°C	5	50	-	TO-92/18	15,16
1	0.01	0.1	125	0.05 @ 125°C	5	50	-	TO-92/18	15,16
1	0.01	0.1	125	0.05 @ 125°C	5	50	-	TO-92/18	15,16
1	0.01	0.1	125	0.05 @ 125°C	5	50	-	TO-92/18	15,16
1	0.01	0.1	125	0.05 @ 125°C	5	50	-	TO-92/18	15,16
1	0.01	0.1	125	0.05 @ 125°C	5	50	-	TO-92/18	15,16
2(Typ)	0.05	2(Typ)	120	2	50	-	-	TO 66	
2(Typ)	0.05	2(Typ)	120	2	50	200	-	TO 66	
2(Typ)	0.05	2(Typ)	120	2	50	200	-	TO 66	

