

Inverter Grade SCRs

7294621 POWEREX INC

91D 01801 D T-25-26

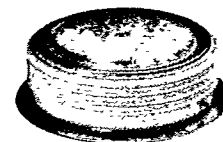
$I_{T(RMS)}$ $T_c = 65^\circ\text{C}$ 50% Duty Cycle, Half Sine 1KHz (Amps)	I_{TSM} (Amps $\times 10^3$) 50 Hz	I_{TSM} 60 Hz	I_{DRM}/I_{RRM} @ Rated V_{DRM}/V_{RRM} and $T_{J(Max)}$ (mA)	I^2t for Fusing @ 8.3 ms ($A^2\text{sec} \times 10^4$)	V_{DRM}/V_{RRM} Range (Volts)	V_{TM} @ I_{TM} $T_J = 25^\circ\text{C}$ I_{TM} (Amps)	V_{TM} (Volts)	Chip Size (mm)	Junction Temp. Range ($^\circ\text{C}$)	$R_{\theta JC}$ ($^\circ\text{C/W}$)	$t_q(Max)$ @ $T_{J(Max)}$ (μsec)
1100	9.1	10	45	41.6	100-1200	1500	1.75	38	-40 to 125	.037	25-60
1100	10.9	12	45	59.8	100-600	2000	2.5	40	-40 to 125	.04	10
1100	10.9	12	45	59.8	100-700	2000	2.5	40	-40 to 125	.04	20
1100	8.2	9.0	45	30	1000-1800	1500	2.0	38	-40 to 125	.037	50-80
1150	9.1	10	45	41.5	500-1400	2000	1.95	40	-40 to 125	.04	40
1200	15.5	17	60	120	600-1200	1500	1.85	50	-40 to 125	.023	40-100
1250	14.6	16	80	100	800-1200	2500	2.2+	53	-40 to 125	.03	15
1700	18.2	20	60	166	1500-2000	1000	1.45	50	-40 to 125	.023	50
1700	11.8	13	60	70.1	1500-1800	1500	1.45	50	-40 to 125	.023	60
1750	17	18.7	80	145	500-1400	3000	1.96	50	-40 to 125	.025	40
2000	14.6	16	50	106	500-1400	3000	2.6	50	-40 to 125	.025	25
2300	20.5	22.5	90	211	600-1800	3000	1.9	67	-40 to 125	.018	40-60
2360	27.3	30	120	374	800-1200	4500	2.1	—	-40 to 125	.017	30
2360	27.3	30	120	374	800-1200	4500	2.1	—	-40 to 125	.017	20
200 @ $T_J = 125^\circ\text{C}$	—	2.5 $\times$	15/25	3.75	600-1000 25 to 175	2500	10	23	-40 to 125	.095	250 (typical)

Asymmetric SCRs

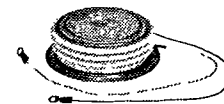
260	1700	1800	20/1000	1.34	500-1400/10	500	2.6	18	-40 to 125	.135	15
260	1700	1800	20/1000	1.34	500-1400/10	500	2.6	18	-40 to 125	.135	20
550	3900	4100	40	7.0	600-1400/10	1500	2.85	22	-40 to 125	.095	15
550	3900	4100	40	7.0	600-1400/10	1500	2.85	22	-40 to 125	.095	20
850	7.3	8	60/1000	26.6	800-1400/15	3000	2.5	30	-40 to 125	.06	15
850	7.3	8	60/1000	26.6	800-1400/15	3000	2.5	30	-40 to 125	.06	20
950	9.1	10	60/1000	41.5	600-1400/10	3000	2.5	30	-40 to 125	.045	15
950	9.1	10	60/1000	41.5	600-1400/10	3000	2.5	30	-40 to 125	.045	20

* = 25°C Value $\times$ = p.w. equals $3\mu\text{sec}$ $^\circ$ = Tentative Specifications + = Rating at $T_{J(Max)}$
 Note 1 = Reverse Blocking Diode Thyristor

Qrr(Max) @ T _J =25°C (μcoul)	Min di/dt Repetitive on-State (A/μsec)	Min Critical dv/dt @ T _J (Max) (V/μsec)	Max V _{GT} (V)	Max I _{GT} (mA)	PACKAGE INFORMATION			
					Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
200	500	400	3*	200*	3500 lbs 15.6 KN	Press Pak	T82	T82F __ 75
30	500	200	5	400	3500 lbs 15.6 KN	Press Pak	TO-200AC	C444
30	500	200	5	400	3500 lbs 15.6 KN	Press Pak	TO-200AC	C445
125	400	400	3*	200*	4000 lbs 17.8 KN	Press Pak	T82	T82F __ 68
250	500	400	5	350	3500 lbs 15.6 KN	Press Pak	TO-200AC	C648
—	600	400	3*	300*	5500 lbs 24.5 KN	Press Pak	T9G	T9GH __ 11
—	1000	300	3*	350*	7260 lbs 32.4 KN	Press Pak	21 × 92 mm	FT1000CY
700	200	500	5	120* Typical	6000 lbs 26.8 KN	Press Pak	Modified TO-200AC	°C712
—	200	400	5	120* Typical	6000 lbs 26.8 KN	Press Pak	Modified TO-200AC	°C712-1
300	500	400	5	200*	6000 lbs 26.8 KN	Press Pak	Modified TO-200AC	C457
400	500	400	5	200*	6000 lbs 26.8 KN	Press Pak	Modified TO-200AC	C458
—	300	800	3*	300*	11,000 lbs 49 KN	Press Pak	TA2	TA2F __ 14
—	1000	200	3*	350*	7260 lbs 32.4 KN	Press Pak	21 × 102 mm	°FT1500EX
—	1000	200	3*	350*	7260 lbs 32.4 KN	Press Pak	21 × 102 mm	°FT1500EY
—	2000/3000	20	V _{DRM} + 150	7000 Typical	1400 lbs 6.2 KN	Press Pak	T62	T62R (Note 1)
—	500	400	5	400	800 lbs 3.56 KN	Press Pak	TO-200AB	CA358-1
—	500	400	5	400	800 lbs 3.56 KN	Press Pak	TO-200AB	CA358-2
—	500	400-600	5	500	800 lbs 3.56 KN	Press Pak	TO-200AB	CA383-1
—	500	400-600	5	500	800 lbs 3.56 KN	Press Pak	TO-200AB	CA383-2
—	500	400-600	3	400	2500 lbs 11.1 KN	Press Pak	TO-200AC	CA398-1
—	500	400-600	3	400	2500 lbs 11.1 KN	Press Pak	TO-200AC	CA398-2
—	500	400-600	5	500	2500 lbs 11.1 KN	Press Pak	TO-200AB	CA438-1
—	500	400-600	5	500	2500 lbs 11.1 KN	Press Pak	TO-200AB	CA438-2



JEDEC TO-200AC



TA2



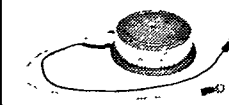
T62



T7S



T72/T82



T9G