

# Inverter Grade SCRs

$I_{T(RMS)}$ T <sub>c</sub> =65° C 50% Duty Cycle, Half Sine 1KHz (Amps)	$I_{TSM}$ (Amps)		$I_{DRM}/I_{RRM}$ @ Rated V <sub>DRM</sub> /V <sub>RRM</sub> and T <sub>J(Max)</sub> (mA)	$I^2t$ for Fusing @ 8.3 ms (A <sup>2</sup> sec x 10 <sup>4</sup> )	V <sub>DRM</sub> /V <sub>RRM</sub> Range (Volts)	V <sub>TM</sub> @ I <sub>TM</sub> T <sub>J</sub> =25°C		Chip Size (mm)	Junction Temp. Range (°C)	R <sub>θJC</sub> (°C/W)	t <sub>q(Max)</sub> @ T <sub>J(Max)</sub> (μsec)
	50 Hz	60 Hz				I <sub>TM</sub> (Amps)	V <sub>TM</sub> (Volts)				
250	1500	1600	15-18	1.06	500-1400	500	3.5	18	-40 to 125	.135	40
240	3200	3500	25	5.1	100-1200	625	2.35	23	-40 to 125	.13	10 to 50
250	3200	3500	20	5.1	100-800	1500	2.85	22	-40 to 125	.15	20
250	3600	4000	25	6.6	100-1200	625	2.1	23	-40 to 125	.13	10 to 50
250	1700	1800	17	1.34	100-600	500	3	18	-40 to 125	.13	10
250	1700	1800	17	1.34	100-600	500	3	18	-40 to 125	.13	20
260	1700	1800	17	1.34	100-800	500	2.6	18	-40 to 125	.135	10
260	1700	1800	17	1.34	100-800	500	2.6	18	-40 to 125	.135	20
270	4150	4500	25	8.4	100-1200	625	1.85	23	-40 to 125	.13	10 to 50
300	6400	7000	30	20.5	100-1200	625	1.65	33	-40 to 125	.10	25 to 60
300	5400	6000	35	15	1400-1800	1500	3.15	33	-40 to 125	.06	40 to 60
325	5000	5500	45	12.6	500-1200	3000	4.2	30	-40 to 125	.06	40
325	5000	5500	45	12.6	500-1200	3000	4.2	30	-40 to 125	.06	30
345	3200	3500	25	5.1	100-1200	625	2.35	23	-40 to 125	.08	10 to 50
375	3600	4000	25	6.6	100-1200	625	2.1	23	-40 to 125	.08	10 to 50
400	6400	6800	35	19.2	1400-1800	1500	2.2	33	-40 to 125	.06	80 to 100
410	6500	7000	30	20.4	100-1000	625	1.5	33	-40 to 125	.10	10 to 50
410	7300	8000	30	26.6	100-1400	625	1.45	33	-40 to 125	.10	25 to 60

\* = 25°C Value

x = ASCR, V<sub>RRM</sub> = 10VDC Max.

$Q_{rr}(\text{Max})$ @ $T_J = 25^\circ\text{C}$ ( $\mu\text{coul}$ )	Min $dI/dt$ Repetitive on-State (A/ $\mu\text{sec}$ )	Min Critical $dV/dt$ @ $T_J(\text{Max})$ (V/ $\mu\text{sec}$ )	Max VGT (V)	Max IGT (mA)	PACKAGE INFORMATION			
					Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
25	500	200	5	500	$\frac{300 \text{ lb-in}}$ $348 \text{ kg-cm}$	$\frac{3}{4}$ -16 Stud	TO-93	C185
—	500	200	5	300	$\frac{800 \text{ lbs}}$ $3.56 \text{ KN}$	Press Pak	TO-200AB	C358
—	200	300	3*	150*	$\frac{300 \text{ lb-in}}$ $348 \text{ kg-cm}$	$\frac{3}{4}$ -16 Stud	TO-93	T607 __ _13
—	250	300	3*	150*	$\frac{300 \text{ lb-in}}$ $348 \text{ kg-cm}$	$\frac{3}{4}$ -16 Stud	TO-93	T607 __ _15
—	500	200	5	200	$\frac{800 \text{ lbs}}$ $3.56 \text{ KN}$	Press Pak	TO-200AB	C354
—	500	100	5	200	$\frac{800 \text{ lbs}}$ $3.56 \text{ KN}$	Press Pak	TO-200AB	C355
—	500	200	5	400	$\frac{800 \text{ lbs}}$ $3.56 \text{ KN}$	Press Pak	TO-200AB	C364
—	500	200	5	400	$\frac{800 \text{ lbs}}$ $3.56 \text{ KN}$	Press Pak	TO-200AB	C365
—	300	300	3*	150*	$\frac{300 \text{ lb-in}}$ $348 \text{ kg-cm}$	$\frac{3}{4}$ -16 Stud	TO-93	T607 __ _18
—	300	300	3*	150*	$\frac{360 \text{ lb-in}}$ $420 \text{ kg-cm}$	$\frac{3}{4}$ -16 Stud	T70	T707 __ _25
—	300	300	3*	150*	$\frac{2400 \text{ lbs}}$ $10.7 \text{ KN}$	Press Pak	T72	T72H __ _30
—	500	200	5	300	$\frac{2000 \text{ lbs}}$ $8.9 \text{ KN}$	Press Pak	TO-200AC	C387
—	500	200	5	300	$\frac{2000 \text{ lbs}}$ $8.9 \text{ KN}$	Press Pak	TO-200AC	C388
—	200	300	3*	150*	$\frac{1400 \text{ lbs}}$ $6.25 \text{ KN}$	Press Pak	T62	T627 __ _15
—	250	300	3*	150*	$\frac{1400 \text{ lbs}}$ $6.25 \text{ KN}$	Press Pak	T62	T627 __ _20
—	400	300	3*	150*	$\frac{2400 \text{ lbs}}$ $10.7 \text{ KN}$	Press Pak	T72	T72H __ _42
—	300	300	3*	150*	$\frac{360 \text{ lb-in}}$ $420 \text{ kg-cm}$	$\frac{3}{4}$ -16 Stud	T70	T707 __ _28
—	400	300	3*	150*	$\frac{360 \text{ lb-in}}$ $420 \text{ kg-cm}$	$\frac{3}{4}$ -16 Stud	T70	T707 __ _30



JEDEC TO-83