

**Inverter Grade SCRs**

$I_{T(RMS)}$ $T_c=65^\circ C$ 50% Duty Cycle, Half Sine 1KHz (Amps)	$I_{TSM}$ (Amps)		$I_{DRM}/I_{RRM}$ @ Rated $V_{DRM}/V_{RRM}$ and $T_{J(Max)}$ (mA)	$I^2t$ for Fusing @ 8.3 ms ( $A^2sec \times 10^4$ )	$V_{DRM}/V_{RRM}$ Range (Volts)	$V_{TM}$ @ $I_{TM}$ $T_J=25^\circ C$		Chip Size (mm)	Junction Temp. Range ( $^\circ C$ )	$Re_{JC}$ ( $^\circ C/W$ )	$t_q(Max)$ @ $T_{J(Max)}$ ( $\mu sec$ )
	50 Hz	60 Hz				$I_{TM}$ (Amps)	$V_{TM}$ (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 =  $A_{SCR}$ ,  $V_{RRM}$  = 10VDC Max.

Qrr(Max) @ Tj=25°C (μcoul)	Min di/dt Repetitive on-State (A/μsec)	Min Critical dv/dt @ Tj(Max) (V/μsec)	Max VGT (V)	Max Igr (mA)	PACKAGE INFORMATION			
					Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
25	500	200	5	500	<u>300 lb-in</u> 348 kg-cm	¼-16 Stud	TO-93	C185
—	500	200	5	300	<u>800 lbs</u> 3.56 KN	Press Pak	TO-200AB	C358
—	200	300	3*	150*	<u>300 lb-in</u> 348 kg-cm	¼-16 Stud	TO-93	T607 __ __ 13
—	250	300	3*	150*	<u>300 lb-in</u> 348 kg-cm	¼-16 Stud	TO-93	T607 __ __ 15
—	500	200	5	200	<u>800 lbs</u> 3.56 KN	Press Pak	TO-200AB	C354
—	500	100	5	200	<u>800 lbs</u> 3.56 KN	Press Pak	TO-200AB	C355
—	500	200	5	400	<u>800 lbs</u> 3.56 KN	Press Pak	TO-200AB	C364
—	500	200	5	400	<u>800 lbs</u> 3.56 KN	Press Pak	TO-200AB	C365
—	300	300	3*	150*	<u>300 lb-in</u> 348 kg-cm	¼-16 Stud	TO-93	T607 __ __ 18
—	300	300	3*	150*	<u>360 lb-in</u> 420 kg-cm	¼-16 Stud	T70	T707 __ __ 25
—	300	300	3*	150*	<u>2400 lbs</u> 10.7 KN	Press Pak	T72	T72H __ __ 30
—	500	200	5	300	<u>2000 lbs</u> 8.9 KN	Press Pak	TO-200AC	C387
—	500	200	5	300	<u>2000 lbs</u> 8.9 KN	Press Pak	TO-200AC	C388
—	200	300	3*	150*	<u>1400 lbs</u> 6.25 KN	Press Pak	T62	T627 __ __ 15
—	250	300	3*	150*	<u>1400 lbs</u> 6.25 KN	Press Pak	T62	T627 __ __ 20
—	400	300	3*	150*	<u>2400 lbs</u> 10.7 KN	Press Pak	T72	T72H __ __ 42
—	300	300	3*	150*	<u>360 lb-in</u> 420 kg-cm	¼-16 Stud	T70	T707 __ __ 28
—	400	300	3*	150*	<u>360 lb-in</u> 420 kg-cm	¼-16 Stud	T70	T707 __ __ 30



JEDEC TO-83

