

# Inverter Grade SCRs

IT(RMS) Tc=65° C 50% Duty Cycle, Half Sine 1KHz (Amps)	ITSM (Amps)		IDRM/IRRM @ Rated VDRM/VRRM and TJ(Max) (mA)	I <sup>2</sup> t for Fusing @ 8.3 ms (A <sup>2</sup> sec x 10 <sup>4</sup> )	VDRM/VRRM Range (Volts)	VTM @ ITM TJ=25°C		Chip Size (mm)	Junction Temp. Range (°C)	ReJC (°C/W)	tq(Max) @ TJ(Max) (µsec)
	50 Hz	60 Hz				ITM (Amps)	VTM (Volts)				
440	4100	4500	25	8.4	100-1200	625	1.85	23	-40 to 125	.08	10 to 50
450	5100	5500	45	12.6	500-1200	3000	4.2	30	-40 to 125	.04	30
450	6900	7500	45	23.3	500-1400	3000	3	30	-40 to 125	.06	60
450	6900	7500	45	23.3	500-1400	3000	3	30	-40 to 125	.06	40
450	9100	10,000	60	41.6	600-2000	1500	2.5	53	-40 to 125	.023	50 to 100
475	7300	8000	30	26.6	100-800	625	1.4	33	-40 to 125	.10	10 to 50
500	3200	3500	20	5.1	100-600	1500	2.85	22	-40 to 125	.095	10
500	3200	3500	20	5.1	100-800	1500	2.85	22	-40 to 125	.095	20
500	6400	7000	30	20.5	100-1400	625	1.65	33	-40 to 125	.06	15 to 60
500	5000	5500	45	12.6	100-600	3000	4.2	30	-40 to 125	.06	14
500	5000	5500	45	12.6	100-600	3000	4.2	30	-40 to 125	.06	20
530	7300	8000	30	26.6	100-1400	625	1.45	33	-40 to 125	.06	15 to 60
550	5500	6000	45	14.9	500-1400	1500	2.9	40	-40 to 125	.045	20
550	5500	6000	45	15.0	500-1400	1500	2.9	30	-40 to 125	.06	20
550	5500	6000	35	15.0	1400-1800	1500	3.15	33	-40 to 125	.045	40 to 60
550	6400	7000	45	20.5	500-1400	1500	2.25	30	-40 to 125	.06	40
550	6800	7500	45	23.3	500-1400	1500	2.6	30	-40 to 125	.06	30
550	6400	7000	35	20.5	100-1200	1500	3.15	33	-40 to 125	.06	10 to 50
600	6400	7000	45	20.3	500-1400	1500	2.6	40	-40 to 125	.045	30
600	6800	7500	45	23.3	500-1200	3000	3	30	-40 to 125	.04	60
600	6800	7500	45	23.3	500-1200	3000	3	30	-40 to 125	.04	40
600	6400	7000	30	20.5	100-800	625	1.5	33	-40 to 125	.06	10 to 50

\* = 25°C Value    ° = Tentative    + = Rating at TJ(Max)

Qrr(Max) @ T <sub>J</sub> =25°C (μcoul)	Min di/dt Repetitive on-State (A/μsec)	Min Critical dv/dt @ T <sub>J</sub> (Max) (V/μsec)	Max V <sub>GT</sub> (V)	Max I <sub>GT</sub> (mA)	PACKAGE INFORMATION			
					Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
—	300	300	3	150	1400 lbs 6.25 KN	Press Pak	T62	T627 __ 25
6	500	200	5	300	2500 lbs 11.2 KN	Press Pak	TO-200AB	C436
75	500	200	5	300	2000 lbs 8.9 KN	Press Pak	TO-200AC	C397
75	500	200	5	300	2000 lbs 8.9 KN	Press Pak	TO-200AC	C398
—	500	400	3*	300*	5500 lbs 24.6 KN	Press Pak	T9G	T9GH __ 08
—	400	300	3*	150*	360 lb-in 420 kg-cm	¼-16 Stud	T70	T707 __ 33
—	500	200	5	500	800 lbs 3.56 KN	Press Pak	TO-200AB	C384
—	500	200	5	500	800 lbs 3.56 KN	Press Pak	TO-200AB	C385
—	300	300	3*	150*	2400 lbs 10.7 KN	Press Pak	T72	T727 __ 35
—	500	200	5	400	2000 lbs 8.9 KN	Press Pak	TO-200AC	C392
—	500	200	5	400	2000 lbs 8.9 KN	Press Pak	TO-200AC	C393
—	400	300	3*	150*	2400 lbs 10.7 KN	Press Pak	T72	T727 __ 45
90	500	200	5	400	2500 lbs 11.1 KN	Press Pak	TO-200 AB	C476
40	600	200	5	250	2000 lbs 8.9 KN	Press Pak	TO-200AC	C376
—	300	300	3*	150*	2400 lbs 10.7 KN	Press Pak	T7S	T7SH __ 36
90	600	200	5	250	2000 lbs 8.9 KN	Press Pak	TO-200AC	C377
90	600	200	5	250	2000 lbs 8.9 KN	Press Pak	TO-200AC	C378
—	500	300	3*	150*	2400 lbs 10.7 KN	Press Pak	T72	T72H __ 35
90	500	200	5	400	2500 lbs 11.1 KN	Press Pak	TO-200AB	C478
75	500	200	5	300	2500 lbs 11.1 KN	Press Pak	TO-200AB	C437
75	500	200	5	300	2500 lbs 11.1 KN	Press Pak	TO-200 AB	C438
—	300	300	3*	150*	2400 lbs 10.7 KN	Press Pak	T72	T727 __ e 40



JEDEC TO-93