

## INVERTER SCRS 1600 TO 2100 AMPERES

TYPE		C457	C458		C770	
Voltage Range		500-1400	500-1400		1400-1800	
IT (RMS)	Max. RMS current @ 1KHz (A) Sinusoidal @ Tc=65°C 50% duty	2000	1600		2100	
ITSM	Max. peak one-cycle, 50HZ non-repetitive surge current (A) 60HZ	18,000	15,000		35,000	
		18,700	16,000		38,000	
I <sup>2</sup> t	Max. I <sup>2</sup> t for fusing 1.5 msec (A <sup>2</sup> sec)	625,000	420,000			
RθJC	Max. thermal impedance, junction-to-case (°C/W)	.023	.023		.012	
tq	Typical turn-off time @ Rated Voltage, Max. Tj, (µsec) with 200v/µsec reapplied	40	25		60	
di/dt	Rate-of-rise of on current (A/µs)	800	800		300	
Tj	Operating junction temperature (°C)	-40 to 125	-40 to 125		-40 to 125	
QRR	Max. reverse recovered charge (µC) Tj =25°C	3000	65			
DV/dt	Max. critical rate-of-rise of off-state voltage @ max. rated Tj (V/µs)	400	400		500	
IGT	Gate current to trigger @ -40°C (mA) @ + 25°C (mA)	400	400			
		200	200			
VGT	Max. required gate voltage to trigger (V) (-40 to + 125 °C)	5	5			
VTM	Peak on-state Voltage @ the following parameters	IMIN(A)	100	100		
		IMAX(A)	10000	10000		
		A	1.5	2.9		1.55
		B	-.2	.14		
		C	.00002	.0003		
RθJC	Transient thermal resistance @ the following parameters	D	.03	.005		
		TMIN(S)	.001	.001		
		TMAX(S)	.01	.01		
		F	.055	.055		
		G	.63	.63		
Package Outline.		Modified TO-200AC	Modified TO-200AC		R Disk	
Maximum Stud Torque (In-Lbs/N-M)						
Max. Mounting Force	Lbs	6000	6000		9000	
	KN	26.7	26.7		40	