

INVERTER SCRS 1600 TO 2000 AMPERES

TYPE		C457	C458			
Voltage Range		500-1400	500-1400			
IT (RMS)	Max. RMS current @ 1KHz (A) Sinusoidal @ Tc=65°C 50% duty	2000	1600			
ITSM	Max. peak one-cycle, 50HZ non-repetitive surge current (A) 60HZ	18,000	15,000			
		18,700	16,000			
I ² t	Max. I ² t for fusing 1.5 msec (A ² sec)	625,000	420,000			
RθJC	Max. thermal impedance, junction-to-case (°C/W)	.023	.023			
tq	Typical turn-off time @ Rated Voltage, Max. Tj, (µsec) with 200v/µsec reapplied	40	25			
di/dt	Rate-of-rise of on current (A/µs)	800	800			
Tj	Operating junction temperature (°C)	-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			
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		
		B	-.2	.14		
		C	.00002	.0003		
		D	.03	.005		
RθJC	Transient thermal resistance @ the following parameters	TMIN(S)	.001	.001		
		TMAX(S)	.01	.01		
		F	.055	.055		
		G	.63	.63		
Package Outline.		Modified TO-200AC	Modified TO-200AC			
Maximum Stud Torque (In-Lbs/N-M)						
Max. Mounting Force	Lbs	6000	6000			
	KN	26.7	26.7			