

INVERTER SCRS 400 TO 500 AMPERES

TYPE		C392 C393	C394	C395	C387 C388		
Voltage Range		100-700	100-700	100-700	500-1200		
IT (RMS)	Max. RMS current @ 1KHz (A) Sinusoidal @ Tc=65°C 50% duty	500	700	700	350		
ITSM	Max. peak one-cycle, 50HZ non-repetitive surge current (A) 60HZ	5000	7600	7600	5000		
		5500	8000	8000	5500		
I ² t	Max. I ² t for fusing 1.5 msec (A ² sec)	50,000	100,000	100,000	50,000		
RθJC	Max. thermal impedance, junction-to-case (°C/W)	.06	.06	.06	.06		
tq	Typical turn-off time @ Rated Voltage, Max. Tj, (µsec) with 200v/µsec reapplied	14/20	14	20	40/30		
di/dt	Rate-of-rise of on current (A/µs)	800	800	800	500		
Tj	Operating junction temperature (°C)	-40 to 150	-40 to 125	-40 to 125	-40 to 125		
QRR	Max. reverse recovered charge (µC) Tj =25°C	-	-	-	-		
DV/dt	Max. critical rate-of-rise of off-state voltage @ max. rated Tj (V/µs)	200	200	200	200		
IGT	Gate current to trigger @ -40°C (mA) @ + 25°C (mA)	400	400	400	350		
		200	200	200	150		
VGT	Max. required gate voltage to trigger (V) (-40 to + 125 °C)	5	5	5	5		
VTM	Peak on-state Voltage @ the following parameters	IMIN(A)	100	500	500	100	
		IMAX(A)	3000	3000	3000	3000	
		A	.3.19	-.5.7	-.5.7	3.46	
		B	-.43	1.78	1.78	1.78	
		C	0	.002	.002	-.0001	
		D	.085	.21	.21	.103	
RθJC	Transient thermal resistance @ the following parameters	TMIN(S)	.001	.001	.001	.001	
		TMAX(S)	.01	.01	.01	.01	
		F	.28	.28	.28	.365	
		G	.61	.61	.61	.65	
Package Outline.		TO-200AC	TO-200AC	TO-200AC	TO-200AC		
Maximum Stud Torque (In-Lbs/N-M)							
Max. Mounting Force	Lbs	2000	2000	200	2000		
	KN	8.9	8.9	8.9	8.9		