

INVERTER SCRS 650 AMPERES

TYPE		C437 C438	C376	C377 C378	C397 C398		
Voltage Range		500-1200	500-1400	500-1400	500-1200		
IT (RMS)	Max. RMS current @ 60Hz (A) Sinusoidal @ Tc=65°C 50% duty	750	500	600	650		
ITSM	Max. peak one-cycle, 50HZ non-repetitive surge current (A) 60HZ	7000	5800	7200/6800	7000		
		7500	6000	7500/7000	7500		
I ² t	Max. I ² t for fusing 1.5 msec (A ² sec)	100,000	54,000	85,000/72,500	100,000		
RθJC	Max. thermal impedance, junction-to-case (°C/W)	.045	.06	.06	.06		
tq	Typical turn-off time @ Rated Voltage, Max. Tj, (µsec) with 200v/µsec reapplied	40	20	40/30	60		
di/dt	Rate-of-rise of on current (A/µs)	800	800	800	800		
Tj	Operating junction temperature (°C)	-40 to 125	-40 to 125	-40 to 125	-40 to 125		
QRR	Max. reverse recovered charge (µC) Tj =25°C	75	40	90	75		
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	300		
		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)	500	300	300	200	
		IMAX(A)	4000	7000	7000	4000	
		A	2.96	-2.32	3.04	.265	
		B	-.45	1.09	-.31	.247	
		C	-	.0015	.0054	.00068	
RθJC	Transient thermal resistance @ the following parameters	D	.0667	-.137	.024	-.0176	
		TMIN(S)	.001	.001	.001	.001	
		TMAX(S)	.01	.01	.01	.01	
		F	.292	.292	.292	.307	
		G	.618	.618	.618	.628	
Package Outline.		TO200AB	TO-200AB	TO-200AB	TO-200AB		
Maximum Stud Torque (In-Lbs/N-M)		-	-	-	-		
Max. Mounting Force	Lbs	2000	2000	200	2000		
	KN	8.9	8.9	8.9	8.9		