

INVERTER SCRS 500 TO 650 AMPERES

TYPE		C434	C435	C436	C379		
Voltage Range		100-700	100-700	500-1200	1200-1800		
IT (RMS)	Max. RMS current @ 1KHz (A) Sinusoidal @ Tc=65°C 50% duty	900	900	400	500		
ITSM	Max. peak one-cycle, 50HZ non-repetitive surge current (A) 60HZ	7600	7600	5000	6500		
		8000	8000	5500	7000		
I ² t	Max. I ² t for fusing 1.5 msec (A ² sec)	100,000	100,000	50,000	-		
RθJC	Max. thermal impedance, junction-to-case (°C/W)	.045	.045	.045	.06		
tq	Typical turn-off time @ Rated Voltage, Max. Tj, (µsec) with 200v/µsec reapplied	14	20	30	60		
di/dt	Rate-of-rise of on current (A/µs)	500	500	500	200		
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	-	-	6.0	-		
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	400		
		200	200	200	200		
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)	200	200	500	-	
		IMAX(A)	3000	3000	4000	-	
		A	-1.1066	-1.10066	2.96	-	
		B	.6344	.6344	-.45	-	
		C	.0011	.0011	.00009	-	
RθJC	Transient thermal resistance @ the following parameters	D	-.0845	-.0845	.067	-	
		TMIN(S)	.001	.001	.001	.001	
		TMAX(S)	.01	.01	.01	.01	
		F	.16	.16	.16	.365	
		G	.602	.602	.602	.65	
Package Outline.		TO200AB2	TO200AB2	TO200AB2	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		