

INVERTER SCRS 1100 TO 1550 AMPERES

TYPE		C444 C445	C648	C612	C712	C713	
Voltage Range		100-700	500-1200	1500-2100	1500-2100	1500-2100	
IT (RMS)	Max. RMS current @ 1KHz (A) Sinusoidal @ Tc=65°C 50% duty	1000	1150	1000	1500	1900	
ITSM	Max. peak one-cycle, 50HZ non-repetitive surge current (A) 60HZ	11,000	9,500	8,500	16,000	13,500	
		13,000	10,000	9,000	18,000	15,000	
I ² t	Max. I ² t for fusing 1.5 msec (A ² sec)	190,000	190,000	160,000	-	-	
RθJC	Max. thermal impedance, junction-to-case (°C/W)	.04	.04	.0375	.023	.023	
tq	Typical turn-off time @ Rated Voltage, Max. Tj, (µsec) with 200v/µsec reapplied	10/20	60	-	50	40	
di/dt	Rate-of-rise of on current (A/µs)	800	800	800	800	200	
Tj	Operating junction temperature (°C)	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125	
QRR	Max. reverse recovered charge (µC) Tj =25°C	30	250	350	700	375	
DV/dt	Max. critical rate-of-rise of off-state voltage @ max. rated Tj (V/µs)	200	400	300	500	500	
IGT	Gate current to trigger @ -40°C (mA)	400	350	-	-	-	
	@ + 25°C (mA)	200	150	180	300	200	
VGT	Max. required gate voltage to trigger (V) (-40 to + 125 °C)	5	5	5	5	5	
VTM	Peak on-state Voltage @ the following parameters	IMIN(A)	300	300	300	200	1000
		IMAX(A)	10000	10000	10000	2000	10000
		A	2.8934	245.49	.3114	.1269	4.2493
		B	-3989	-62.5173	.1889	.2268	-.6009
		C	-.00001	-.0379	.0007	.0004	.0002
RθJC	Transient thermal resistance @ the following parameters	D	.0482	7.1375	-.0213	-.0189	.0477
		TMIN(S)	.001	.001	.001	.01	.01
		TMAX(S)	.01	.01	.01	.1	.1
		F	.07	.08	.08	.018	.018
		G	.45	.477	.03	.428	.428
Package Outline.		TO-200AC	TO-200AC	TO-200AC	TO-200AC	TO-200AC	
Maximum Stud Torque (In-Lbs/N-M)							
Max. Mounting Force	Lbs	3000	3000	4200	6000	6000	
	KN	13.3	13.3	18.7	26.7	26.7	