

INVERTER SCRs

NATIONAL TYPE NO.			C434 C435	C436	C437 C438	C447 C448	C457	C458
VOLTAGE RANGE			100-700	500-1200	500-1200	500-1200	500-1400	500-1400
I_{TM} Peak on-state sinusoidal current @ T _c = 65°C, 50% duty (A)			---	---	---	---	---	---
@ 1 KHz			1700	650	950	1800	3000	3300
@ 5 KHz			540	140	200	1250	750	2500
@ 10 KHz			320	---	70	680	400	1500
I_{TSM} Peak one cycle surge current (A)			8000	5500	7500	10000	20000	16000
I²t For fusing at 8.3 msec (A ² sec)			250,000	120,000	230,000	450,000	1,660,000	1,060,000
V_{TM} Max. peak on-state volts @ peak amps., T _J = 25°C			2.1 @ 1000	2.6 @ 1000	2.2 @ 1000	2.1 @ 1000	2.0 @ 3000	2.6 @ 3000
di/dt Max. Rate-of-rise of on-state current (A/μsec)			500	500	500	800	800	800
dv/dt Min. Rate-of-rise off-state voltage (V/μsec)			200	200	200	400	400	400
to Turn-off time at rated voltage and T _J , with 200 V/μsec reapplied			14/20	30	60/40	40/25	40	25
I_{GT} Max. gate trigger current (MA) @ 25°C			200	200	200	300	300	300
V_{GT} Max. gate trigger voltage (V) @ 25°C			3.0	3.0	3.0	3.0	3.0	3.0
R_{θJC} Max. thermal resistance junction-to-case (°C/W)			.04	.04	.04	.04	.023	.023
T_J Max. junction operating temperature (°C)			125	125	125	125	125	125
	100	A	C434A C435A					
	150	G	C434G C435G					
	200	B	C434B C435B					
	250	H	C434H C435H					
REPETITIVE PEAK FORWARD (V _{DRM})	300	C	C434C C435C					
	400	D	C434D C435D					
AND	500	E	C434E C435E	C436E	C437E C438E	C447E C448E	C457E	C458E
REPETITIVE PEAK REVERSE (V _{RRM}) VOLTAGE	600	M	C434M C435M	C436M	C437M C438M	C447M C448M	C457M	C458M
	700	S	C434S C435S	C436S	C437S C438S	C447S C448S	C457S	C458S
	800	N	C435N	C436N	C437N C438N	C447N C448N	C457N	C458N
	900	T		C436T	C437T C438T	C447T C448T	C457T	C458T
	1000	P		C436P	C437P C438P	C447P C448P	C457P	C458P
	1100	PA		C436PA	C437PA C438PA	C447PA C448PA	C457PA	C458PA
	1200	PB		C436PB	C437PB C438PB	C447PB C448PB	C457PB	C458PB
	1300	PC					C457PC	C458PC
	1400	PD					C457PD	C458PD
Mounting Force (Lbs) Required			2000	2000	2000	4000	5500	5500
Package Type			½" P.P.	½" P.P.	½" P.P.	1" P.P.	1" P.P.	1" P.P.
Package Outline Number			TO-200AB-2	TO-200AB-2	TO-200AB-2	TO-200AC	P-7	P-7