

INVERTER SCRs

NATIONAL TYPE NO.		C364 C365	C376 C377	C378	C384 C385	C387 C388	C392 C393	C394 C395	C397 C398	
VOLTAGE RANGE		100-1000	500-1400	500-1400	100-1000	500-1200	100-1000	100-800	500-1400	
I_{TM} Peak on-state sinusoidal current @ T _c =65°C, 50% duty (A)		—	—	—	—	—	—	—	—	
@ 1 KHz		500	1000/1100	1050	850	600	600	1400	940	
@ 5 KHz		280	800/975	850	450	120	120	570	300	
@ 10 KHz		170	600/700	650	260	—	—	340	180	
I_{TM} Peak one cycle surge current (A)		1800	6000 7500	7000	3500	5500	5500	8000	7500	
I²t For fusing at 8.3 msec (A ² sec)		13500	150,000 230,000	200,000	50,000	120,000	120,000	250,000	230,000	
V_{TM} Max. peak on-state volts @ peak amps., T _J =25°C		2.6 @ 500	1.8/2.2 @ 1000	2.5 @ 1000	2.85 @ 1500	3.0 @ 1000	3.0 @ 1000	2.0 @ 1000	2.4 @ 1000	
di/dt Max. Rate-of-rise of on-state current (A/μsec)		800	800	800	800	800	800	800	800	
dv/dt Min. Rate-of-rise off-state voltage (V/μsec)		200	200	200	200	200	200	200	200	
t_o Turn-off time at rated voltage and T _J , with 200 v/μsec reapplied		10/20	20/40	30	10/20	40/30	14/20	10/15	50/30	
I_{GT} Max. gate trigger current (MA) @ 25°C		150	300	300	300	300	300	300	300	
V_{GT} Max. gate trigger voltage (V) @ 25°C		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
R_{θJC} Max. thermal resistance junction-to-case (°C/W)		.13	.06	.06	.09	.06	.06	.06	.06	
T_J Max. junction operating temperature (°C)		125	125	125	125	125	125	125	125	
REPETITIVE PEAK FORWARD (V _{DRM}) AND REPETITIVE PEAK REVERSE (V _{RRM}) VOLTAGE	100	A	C364A C365A		C384A C385A		C392A C393A	C394A C395A		
	150	G	C364G C365G		C384G C385G		C392G C393G	C394G C395G		
	200	B	C364B C365B		C384B C385B		C392B C393B	C394B C395B		
	250	H	C364H C365H		C384H C385H		C392H C393H	C394H C395H		
	300	C	C364C C365C		C384C C385C	C392C	C394C C393C	C394C C395C		
	400	D	C364D C365D		C384D C385D		C392D C393D	C394D C395D		
	500	E	C364E C365E	C376E C377E	C378E	C384E C385E	C387E C388E	C392E C393E	C394E C395E	C397E C398E
	600	M	C364M C365M	C376M C377M	C378M	C384M C385M	C387M C388M	C392M C393M	C394M C395M	C397M C398M
	700	S	C364S C365S	C376S C377S	C378S	C384S C385S	C387S C388S	C393S	C394S C395S	C397S C398S
	800	N	C364N C365N	C376N C377N	C378N	C384N C385N	C387N C388N	C393N	C395N	C397N C398N
	900	T	C365T	C376T C377T	C378T	C385T	C387T C388T	C393T		C397T C398T
	1000	P	C365P	C376P C377P	C378P	C385P	C387P C388P	C393P		C397P C398P
	1100	PA		C376PA C377PA	C378PA		C387PA C388PA			C397PA C398PA
	1200	PB		C376PB C377PB	C378PB		C387PB C388PB			C397PB C398PB
1300	PC		C376PC C377PC	C378PC					C397PC	
1400	PD		C376PD C377PD	C378PD					C397PD	
Mounting Force (Lbs) Required		800	2000	2000	800	2000	2000	2000	2000	
Package Type		½" P.P.	1" P.P.	1" P.P.	½" P.P.	1" P.P.	1" P.P.	1" P.P.	1" P.P.	
Package Outline Number		TO-200AB	TO-200AC	TO-200AC	TO-200AB	TO-200AC	TO-200AC	TO-200AC	TO-200AC	