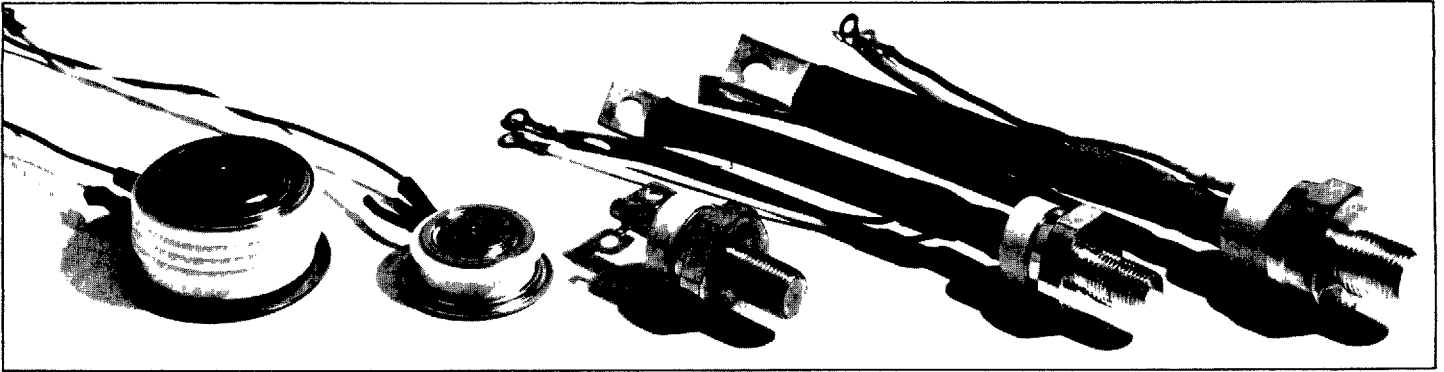


INVERTER SCRs



NATIONAL TYPE NO.		C154 C156	C155 C157	C158 C159	C164 C165	C184 C185	C354 C355	C358	
VOLTAGE RANGE		100-600	100-800	500-1200	100-800	100-800	100-800	500-1200	
I_{TM} Peak on-state sinusoidal current @ T _c = 65°C, 50% duty (A)		—	—	—	—	—	—	—	
@ 1 KHz		220	220	220	220	500	500	400	
@ 5 KHz		120	120	180	220	340	120	200	
@ 10 KHz		75	75	120	140	80	—	120	
I_{TSM} Peak one cycle surge current (A)		1800	1800	1600	1800	3500	1800	1600	
I²t For fusing at 8.3 msec (A²sec)		13500	13500	10500	13500	50000	13500	10500	
V_{TM} Max. peak on-state volts @ peak amps., T_J = 25°C		3.0 @ 500	3.0 @ 500	3.0 @ 500	2.6 @ 500	2.85 @ 1500	3.0 @ 500	3.0 @ 500	
di/dt Max. Rate-of-rise of on-state current (A/μsec)		800	800	800	800	250	500	800	
dv/dt Min. Rate-of-rise off-state voltage (V/μsec)		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	40	10/20	10/20	10/20	40	
I_{GT} Max. gate trigger current (MA) @ 25°C		150	150	150	250	150	150	150	
V_{GT} Max. gate trigger voltage (V) @ 25°C		3.0	3.0	3.0	3.0	3.0	3.0	3.0	
R_{θJC} Max. thermal resistance junction-to-case (°C/W)		.3	.3	.3	.3	.15	.13	.13	
T_J Max. junction operating temperature (°C)		125	125	125	125	125	125	125	
REPETITIVE PEAK FORWARD (V _{DRM}) AND REPETITIVE PEAK REVERSE (V _{RRM}) VOLTAGE	100	A	C154A C156A	C155A C157A	C164A C165A	C184A C185A	C354A C355A		
	200	B	C154B C156B	C155B C157B	C164B C165B	C184B C185B	C354B C355B		
	300	C	C154C C156C	C155C C157C	C164C C165C	C184C C185C	C354C C355C		
	400	D	C154D C156D	C155D C157D	C164D C165D	C184D C185D	C354D C355D		
	500	E	C154E C156E	C155E C157E	C158E C159E	C164E C165E	C184E C185E	C354E C355E	C358E
	600	M	C154M C156M	C155M C157M	C158M C159M	C164M C165M	C184M C185M	C354M C355M	C358M
	800	N		C155N C157N	C158N C159N	C164N C165N	C184N C185N	C355N	C358N
	1000	P			C158P C159P				C358P
	1100	PA			C158PA C159PA				C358PA
	1200	PB			C158PB C159PB				C358PB
	Stud Torque (in-lbs)		150	150	150	150	300		
	Mounting Force (Lbs) Required							800	800
Package Type		½" stud	½" stud	½" stud	½" stud	¾" stud	½" P.P.	½" P.P.	
Package Outline Number		TO-94, 83	TO-94, 83	TO-94, 83	TO-94	TO-93	TO-200AB	TO-200AB	