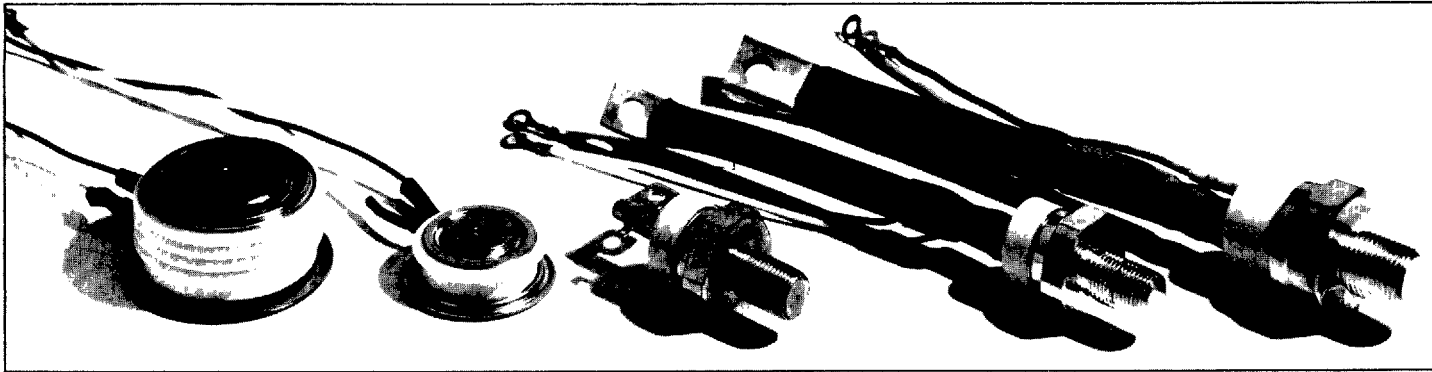


INVERTER SCRs

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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
ITM Peak on-state sinusoidal current @ Tc = 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
ITSM Peak one cycle surge current (A)			1800	1800	1600	1800	3500	1800	1600
I²t For fusing at 8.3 msec (A ² sec)			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									
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