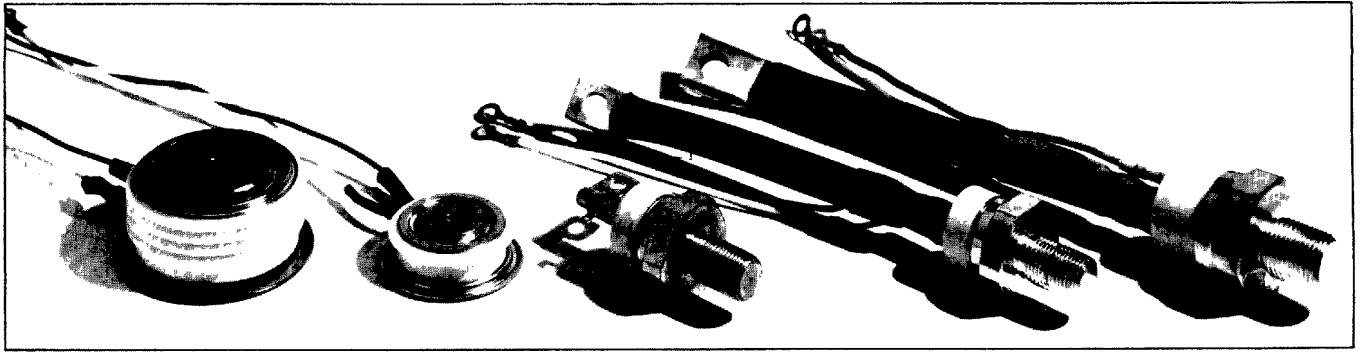


# INVERTER SCRs



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	
<b>I<sub>TM</sub></b> Peak on-state sinusoidal current @ T <sub>c</sub> = 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	
<b>I<sub>TSM</sub></b> Peak one cycle surge current (A)		1800	1800	1600	1800	3500	1800	1600	
<b>I<sup>2</sup>t</b> For fusing at 8.3 msec (A <sup>2</sup> sec)		13500	13500	10500	13500	50000	13500	10500	
<b>V<sub>TM</sub></b> Max. peak on-state volts @ peak amps., T <sub>J</sub> = 25°C		3.0 @ 500	3.0 @ 500	3.0 @ 500	2.6 @ 500	2.85 @ 1500	3.0 @ 500	3.0 @ 500	
<b>di/dt</b> Max. Rate-of-rise of on-state current (A/μsec)		800	800	800	800	250	500	800	
<b>dv/dt</b> Min. Rate-of-rise off-state voltage (V/μsec)		200	200	200	200	200	200	200	
<b>t<sub>o</sub></b> Turn-off time at rated voltage and T <sub>J</sub> , with 200 v/μsec reapplied		10	20	40	10/20	10/20	10/20	40	
<b>I<sub>GT</sub></b> Max. gate trigger current (MA) @ 25°C		150	150	150	250	150	150	150	
<b>V<sub>GT</sub></b> Max. gate trigger voltage (V) @ 25°C		3.0	3.0	3.0	3.0	3.0	3.0	3.0	
<b>R<sub>θJC</sub></b> Max. thermal resistance junction-to-case (°C/W)		.3	.3	.3	.3	.15	.13	.13	
<b>T<sub>J</sub></b> Max. junction operating temperature (°C)		125	125	125	125	125	125	125	
REPETITIVE PEAK FORWARD (V <sub>DRM</sub> )  AND REPETITIVE PEAK REVERSE (V <sub>RRM</sub> ) 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	

Call Richardson Electronics, Ltd. at 1-(800) 348-5580 in the U.S. and Canada.  
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