



**Cathode to Stud Shown**  
**(Anode to Stud add Suffix R)**

Symbol



MAXIMUM RATINGS (Tj = 25 °C unless stated otherwise)					
Parameter	Symbol	50PF(R) -40	50PF(R) -80	50PF(R) -120	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	800	1200	Volt
Maximum Average On-State Current	$I_{F(AV)}$	50 at Tc= 140°C			Amp
Peak Forward Surge Current 8.3mS	$I_{FSM}$	700			Amp
Maximum I <sup>2</sup> T for Fusing 8.3ms	I <sup>2</sup> T	2050			A <sup>2</sup> /S
Maximum Storage Temperature Range	T <sub>(STG)</sub>	-55 to +180			°C
Maximum Junction Temperature Range	Tj	-55 to +180			°C

ELECTRICAL CHARACTERISTICS at Tj = 25 °C Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage	$V_{FM}$	$I_{FM} = 125$ Amps T <sub>p</sub> = 400µS rect. wave			1.40	Volt
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R = V_{RRM}, t_j = 150^\circ C$			9.0	mA
Thermal Resistance (Junction to Case)	R <sub>TH (J-C)</sub>				0.51	°C/W
Mounting Torque	M <sub>T</sub>				3.4	NM
Weight	Wt				15.8	grms

**Mechanical Outline**

