



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

Symbol



MAXIMUM RATINGS (Tj = 25°C unless stated otherwise)					
Parameter	Symbol	80PF(R) -40	80PF(R) -80	80PF(R) -120	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	800	1200	Volt
Maximum Average On-State Current	$I_{F(AV)}$	80 at tj = 140°C			Amp
Peak Forward Surge Current 8.3mS	$I_{FSM}$	1570			Amp
Maximum I <sup>2</sup> T for Fusing 8.3ms	I <sup>2</sup> T	10230			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	$V_{FM}$	$I_{FM} = 220$ Amps $T_P = 400\mu s$ rect. wave			1.40	Volt
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$ , $t_j = 150^\circ C$ Max			9	mA
Thermal Resistance (Junction to Case)	$R_{TH (j-c)}$				0.30	°C/W
Mounting Torque	$M_T$				3.4	NM
Weight	Wt				15.8	grms

**Mechanical Outline**

