



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

Symbol



MAXIMUM RATINGS ($T_J = 25^{\circ}C$ 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 $t_J = 140^{\circ}C$			Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	1570			Amp
Maximum I^2T for Fusing 8.3ms	I^2T	10230			A^2/S
Maximum Storage Temperature Range	$T_{(STG)}$	-55 to +180			$^{\circ}C$
Maximum Junction Temperature Range	T_J	-55 to +180			$^{\circ}C$

ELECTRICAL CHARACTERISTICS at $T_J = 25^{\circ}C$ 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	$^{\circ}C/W$
Mounting Torque	M_T				3.4	NM
Weight	Wt				15.8	grms

Mechanical Outline

