



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

Symbol



MAXIMUM RATINGS (T _j = 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 T _c = 140°C			Amp
Peak Forward Surge Current 8.3mS	I _{FSM}	700			Amp
Maximum I ² T for Fusing 8.3ms	I ² T	2050			A ² /S
Maximum Storage Temperature Range	T _(STG)	-55 to +180			°C
Maximum Junction Temperature Range	T _j	-55 to +180			°C

ELECTRICAL CHARACTERISTICS at T _j = 25 °C Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage	V _{FM}	I _{FM} = 125 Amps T _p = 400µS rect. wave			1.40	Volt
Repetitive Peak Reverse Current	I _{RRM}	V _R = V _{RRM} , t _j = 150°C			9.0	mA
Thermal Resistance (Junction to Case)	R _{TH (J-C)}				0.51	°C/W
Mounting Torque	M _T				3.4	NM
Weight	Wt				15.8	grms

Mechanical Outline

