



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

Symbol



MAXIMUM RATINGS (Tj = 25°C unless stated otherwise)											
Parameter	Symbol	70HF(R) -10	70HF(R) -20	70HF(R) -40	70HF(R) -60	70HF(R) -80	70HF(R) -100	70HF(R) -120	70HF(R) -140	70HF(R) -160	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	1200	1400	1600	Volt
Maximum Average On-State Current	$I_{F(AV)}$	70 at tj = 140°C							70 at tj = 110°C		Amp
Peak Forward Surge Current 8.3mS	$I_{FSM}$	1250							1250		Amp
Maximum I <sup>2</sup> T for Fusing 8.3ms	I <sup>2</sup> T	6450							6450		A <sup>2</sup> /S
Maximum Storage Temperature Range	T <sub>(STG)</sub>	-65 to +180							-65 to +150		°C
Maximum Junction Temperature Range	Tj	-65 to +180							-65 to +150		°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 (100 -1200V )			1.35	Volt
Maximum Forward Voltage	$V_{FM}$	$I_{FM} = 220$ Amps (1400 -1600V )			1.46	Volt
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$ , tj= tj Max (100 -400V )			15	mA
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$ , tj= tj Max (600 -1200V )			9.0	mA
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$ , tj= tj Max (1400 -1600V )			4.5	mA
Thermal Resistance (Junction to Case)	$R_{TH (J-C)}$				0.45	°C/W
Mounting Torque	$M_T$				3.4	NM
Weight	Wt				17	grms

**Mechanical Outline**

