



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

Symbol



MAXIMUM RATINGS (Tj = 25°C unless stated otherwise)											
Parameter	Symbol	85HF(R) -10	85HF(R) -20	85HF(R) -40	85HF(R) -60	85HF(R) -80	85HF(R) -100	85HF(R) -120	85HF(R) -140	85HF(R) -160	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	1200	1400	1600	Volt
Maximum Average On-State Current	$I_{F(AV)}$	85 at tj = 140°C							85 at tj = 110°C		Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	1800							1800		Amp
Maximum I ² T for Fusing 8.3ms	I ² T	13500							13500		A ² /S
Maximum Storage Temperature Range	T _(STG)	-65 to +180							-65 to +150		°C
Maximum Junction Temperature Range	T _j	-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}	$I_{FM} = 267Amps$ (100 -1200V)			1.20	Volt
Maximum Forward Voltage	V_{FM}	$I_{FM} = 267Amps$ (1400 -1600V)			1.40	Volt
Repetitive Peak Reverse Current	I_{RRM}	$V_R = V_{RRM}$, tj= tj Max (100 -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)}				035	°C/W
Mounting Torque	M _T				3.4	NM
Weight	Wt				17	grms

Mechanical Outline

