



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

Symbol



MAXIMUM RATINGS ($T_j = 25^\circ C$ 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 $t_j = 140^\circ C$							70 at $t_j = 110^\circ C$		Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	1250							1250		Amp
Maximum I^2T for Fusing 8.3ms	I^2T	6450							6450		A^2/S
Maximum Storage Temperature Range	$T_{(STG)}$	-65 to +180							-65 to +150		$^\circ C$
Maximum Junction Temperature Range	T_j	-65 to +180							-65 to +150		$^\circ C$

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 (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}	$V_R = V_{RRM}$, $t_j = t_j$ Max (100 -400V)			15	mA
Repetitive Peak Reverse Current	I_{RRM}	$V_R = V_{RRM}$, $t_j = t_j$ Max (600 -1200V)			9.0	mA
Repetitive Peak Reverse Current	I_{RRM}	$V_R = V_{RRM}$, $t_j = t_j$ Max (1400 -1600V)			4.5	mA
Thermal Resistance (Junction to Case)	$R_{TH (J-C)}$				0.45	$^\circ C/W$
Mounting Torque	M_T				3.4	NM
Weight	Wt				17	grms

Mechanical Outline

