



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

Symbol



MAXIMUM RATINGS (T _J = 25 °C unless stated otherwise)								
Parameter	Symbol	30HFU (R) - 100	30HFU (R) - 200	30HFU (R) - 300	30HFU (R) - 400	30HFU (R) - 500	30HFU (R) - 600	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	200	300	400	500	600	Volt
Maximum Average On-State Current	I _{F(AV)}	30.0						Amp
Peak Forward Surge Current 8.3mS	I _{FSM}	500						Amp
Maximum I ² T for Fusing 8.3ms	I ² T	730						A ² /S
Maximum Storage Temperature Range	T _(STG)	-40 to +125						°C
Maximum Junction Temperature Range	T _J	-40 to +150						°C

ELECTRICAL CHARACTERISTICS at T _J = 25 °C Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage (1)	V _{FM(1)}	I _{FM} = 30 Amps			1.45	Volt
Maximum Forward Voltage (2)	V _{FM(2)}	I _{FM} = 30 Amps T _J = 125°C			1.25	Volt
Repetitive Peak Off- State Current	I _{DRM}	V _R = V _{RRM}			35	μA
Reverse Recovery Time	t _{RR}			60	80	nS
Maximum Value of Threshold Voltage	V _{F(TD)}				1.08	Volt
Thermal Resistance (Junction to Case)	R _{TH (J-c)}				0.35	°C/W
Mounting Torque	M _T				1.2	NM
Weight	Wt				7.0	grms

Mechanical Outline

