



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

Symbol



MAXIMUM RATINGS (T <sub>J</sub> = 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 <sub>RRM</sub>	100	200	300	400	500	600	Volt
Maximum Average On-State Current	I <sub>F(AV)</sub>	30.0						Amp
Peak Forward Surge Current 8.3mS	I <sub>FSM</sub>	500						Amp
Maximum I <sup>2</sup> T for Fusing 8.3ms	I <sup>2</sup> T	730						A <sup>2</sup> /S
Maximum Storage Temperature Range	T <sub>(STG)</sub>	-40 to +125						°C
Maximum Junction Temperature Range	T <sub>J</sub>	-40 to +150						°C

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

**Mechanical Outline**

