



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

Symbol



MAXIMUM RATINGS (T <sub>j</sub> = 25°C unless stated otherwise)								
Parameter	Symbol	40HFL (R)10 S02/5/10	40HFL (R)20 S02/5/10	40HFL (R)40 S02/5/10	40HFL (R)60 S02/5/10	40HFL (R)80 S02/5/10	40HFL (R)100 S05/10	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	Volt
Maximum Average On-State Current	I <sub>F(AV)</sub>	40.0						Amp
Peak Forward Surge Current 8.3mS	I <sub>FSM</sub>	420						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> = 40 Amps			1.95	Volt
Repetitive Peak Off- State Current	I <sub>DRM</sub>	V <sub>R</sub> = V <sub>RRM</sub>			100	µA
Reverse Recovery Time SO2	t <sub>RR</sub>				70	nS
Reverse Recovery Time SO5	t <sub>RR</sub>				180	nS
Reverse Recovery Time SO10	t <sub>RR</sub>				350	nS
Thermal Resistance (Junction to Case)	R <sub>TH (J-C)</sub>				0.60	°C/W
Mounting Torque	M <sub>T</sub>				2.5	NM
Weight	Wt				25	grms

**Mechanical Outline**

