



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

Symbol



MAXIMUM RATINGS (T _J = 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_{RRM}	100	200	400	600	800	1000	Volt
Maximum Average On-State Current	$I_{F(AV)}$	40.0						Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	420						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)	$V_{FM(1)}$	$I_{FM} = 40$ Amps			1.95	Volt
Repetitive Peak Off- State Current	I_{DRM}	$V_R = V_{RRM}$			100	μA
Reverse Recovery Time SO2	t_{RR}				70	nS
Reverse Recovery Time SO5	t_{RR}				180	nS
Reverse Recovery Time SO10	t_{RR}				350	nS
Thermal Resistance (Junction to Case)	$R_{TH (J-C)}$				0.60	°C/W
Mounting Torque	M_T				2.5	NM
Weight	Wt				25	grms

Mechanical Outline

