



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

