

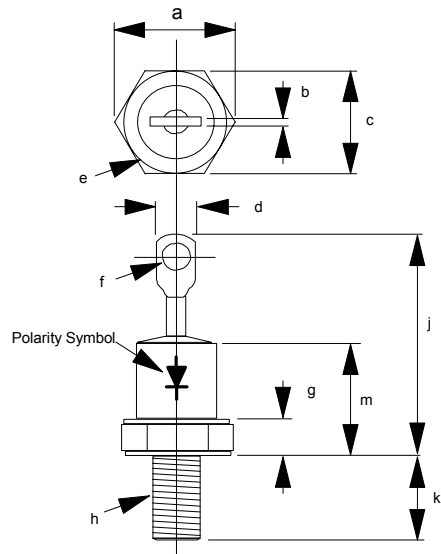
Cathode to Stud Shown
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS (T _J = 25 °C unless stated otherwise)		Add Prefix "A" for avalanche 400-1200V							
Parameter	Symbol	12F(R) -10	12F(R) -20	12F(R) -40	12F(R) -60	12F(R) -80	12F(R) -100	12F(R) -120	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	1200	Volt
Maximum Average On-State Current	I _{F(AV)}	12.0 at tc=144°C							Amp
Peak Forward Surge Current 8.3ms	I _{FSM}	235							Amp
Maximum I ² T for Fusing 8.3ms	I ² T	226							A ² /S
Maximum Storage Temperature Range	T _(STG)	-65 to +200							°C
Maximum Junction Temperature Range	T _J	-65 to +175							°C

ELECTRICAL CHARACTERISTICS at T _J = 25 °C Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage	V _{FM}	I _{FM} = 38 Amps			1.26	Volt
Repetitive Peak Reverse Current	I _{RRM}	V _R = V _{RRM} , t _i = 175°C			12.0	mA
Maximum non-repetitive peak reverse power (Avalanche Version)	P _R	t _p = 10µs rect wave at t _j Max			7.0	kW
Thermal Resistance (Junction to Case)	R _{TH (J-c)}				2.0	°C/W
Mounting Torque	M _T				1.2	NM
Weight	Wt				7.0	grms



Dim	DIMENSIONS			
	Millimetres		Inches	
	Min	Max	Min	Max
a		12.82		0.505
b	0.020	0.065	0.51	1.65
c	0.424	0.437	10.77	11.20
d		0.310		7.87
e		0.413		10.49
f	0.060	0.100	1.53	2.54
g	0.075	0.175	1.91	4.44
h		10 -32 UNF3A		
j	0.600	0.820	15.24	20.82
k	0.422	0.453	10.72	11.50
m		0.405		10.29

Metal Case
DO-4