

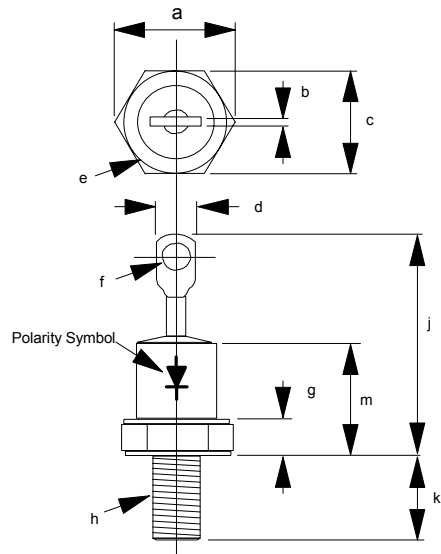
Cathode to Stud Shown  
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS (T <sub>J</sub> = 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 <sub>RRM</sub>	100	200	400	600	800	1000	1200	Volt
Maximum Average On-State Current	I <sub>F(AV)</sub>	12.0 at tc=144°C							Amp
Peak Forward Surge Current 8.3ms	I <sub>FSM</sub>	235							Amp
Maximum I <sup>2</sup> T for Fusing 8.3ms	I <sup>2</sup> T	226							A <sup>2</sup> /S
Maximum Storage Temperature Range	T <sub>(STG)</sub>	-65 to +200							°C
Maximum Junction Temperature Range	T <sub>J</sub>	-65 to +175							°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	V <sub>FM</sub>	I <sub>FM</sub> = 38 Amps			1.26	Volt
Repetitive Peak Reverse Current	I <sub>RRM</sub>	V <sub>R</sub> = V <sub>RRM</sub> , t <sub>i</sub> = 175°C			12.0	mA
Maximum non-repetitive peak reverse power (Avalanche Version)	P <sub>R</sub>	t <sub>p</sub> = 10µs rect wave at t <sub>j</sub> Max			7.0	kW
Thermal Resistance (Junction to Case)	R <sub>TH (J-c)</sub>				2.0	°C/W
Mounting Torque	M <sub>T</sub>				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