

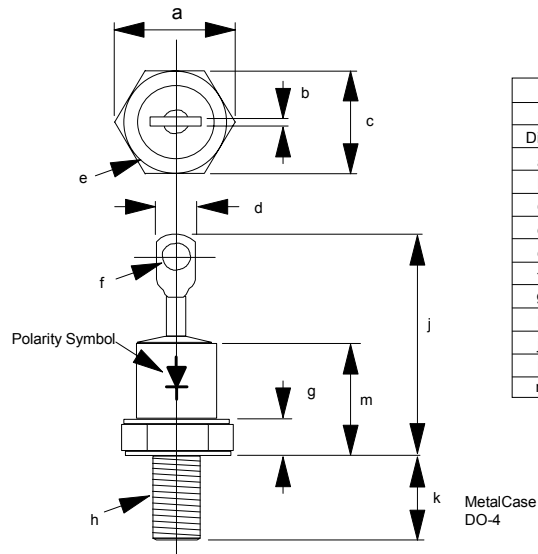
Cathode to Stud Shown
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS ($T_J = 25^\circ\text{C}$ unless stated otherwise)		Add Prefix "A" for avalanche 400-1200V							
Parameter	Symbol	16F(R) -10	16F(R) -20	16F(R) -40	16F(R) -60	16F(R) -80	16F(R) -100	16F(R) -120	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	1200	Volt
Maximum Average On-State Current	$I_{F(AV)}$	25.0 at $t_c = 120^\circ\text{C}$							Amp
Peak Forward Surge Current 8.3ms	I_{FSM}	373							Amp
Maximum I^2T for Fusing 8.3ms	I^2T	580							A ² /S
Maximum Storage Temperature Range	$T_{(STG)}$	-65 to +200							$^\circ\text{C}$
Maximum Junction Temperature Range	T_J	-65 to +175							$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS at $T_J = 25^\circ\text{C}$ Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage	V_{FM}	$I_{FM} = 78\text{Amps}$			1.30	Volt
Repetitive Peak Reverse Current	I_{RRM}	$V_R = V_{RRM}, t_r = 175^\circ\text{C}$			12.0	mA
Maximum non-repetitive peak reverse power (Avalanche Version)	P_R	$t_p = 10\mu\text{s}$ rect wave at t_j Max			10	kW
Thermal Resistance (Junction to Case)	$R_{TH (J-C)}$				1.5	$^\circ\text{C}/\text{W}$
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