

Cathode to Stud Shown

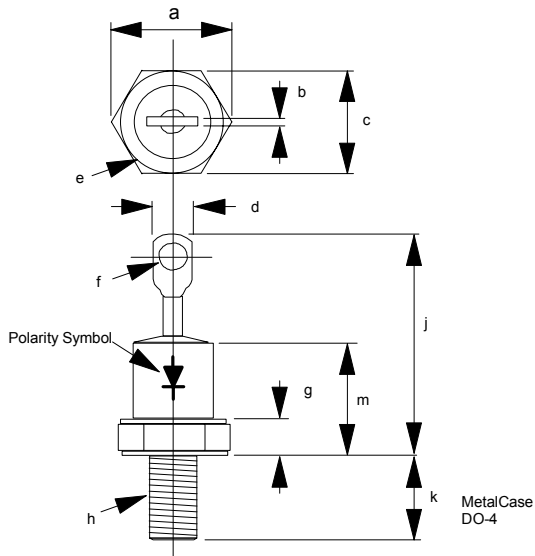
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS (T _J = 25°C unless stated otherwise)									
Parameter	Symbol	12FL5S02 12FL5S05 12FL5S10	12FL10S02 12FL10S05 12FL10S10	12FL20S02 12FL20S05 12FL20S10	12FL40S02 12FL40S05 12FL40S10	12FL60S02 12FL60S05 12FL60S10	12FL80S05 12FL80S10	12FL100S05 12FL100S10	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volt
Maximum Average On-State Current	I _{F(AV)}	12.0							Amp
Peak Forward Surge Current 8.3mS	I _{FSM}	150							Amp
Maximum I ² T for Fusing 8.3ms	I ² T	94							A ² /S
Maximum Storage Temperature Range	T _(STG)	-65 to +175							°C
Maximum Junction Temperature Range	T _J	-65 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	V _{FM}	I _{FM} = 12 Amps			1.4	Volt
Repetitive Peak Off- State Current	I _{DRM}	V _R = V _{RRM}			50	µA
Reverse Recovery Time for S02	t _{RR}				100	nS
Reverse Recovery Time for S05	t _{RR}				250	nS
Reverse Recovery Time for S10	t _{RR}				430	nS
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