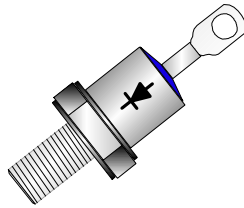




12FL Series

Fast Recovery Rectifier

$V_{RRM} = 50-1000V$, $I_{F(AV)} = 12Amp$, $V_F = 1.4V$



Cathode to Stud Shown

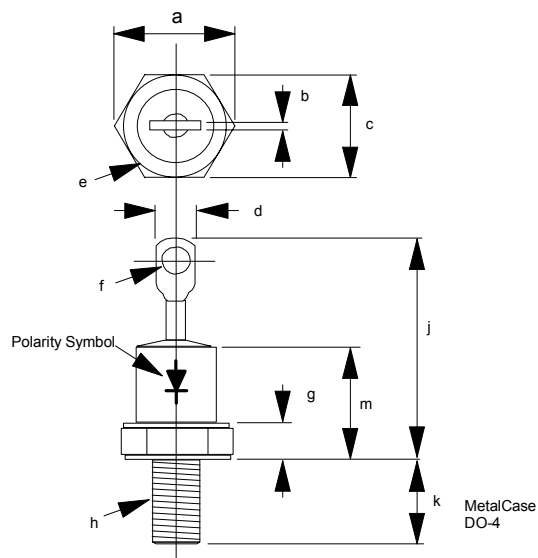
(Anode to Stud add Suffix R)

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^2t for Fusing 8.3ms	I^2t	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
	Symbol		Min	Typ	Max	
Maximum Forward Voltage	V_{FM}	$I_{FM} = 12 \text{ Amps}$			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



DIMENSIONS				
Dim	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