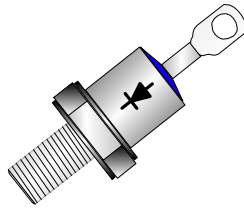




6FL Series

Fast Recovery Rectifier

$V_{RRM} = 50-1000V$, $I_{F(AV)} = 6Amp$, $V_F = 1.4V$



Cathode to Stud Shown

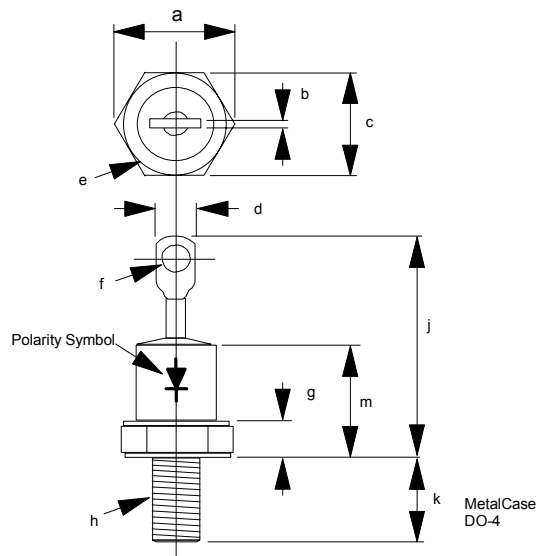
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS ($T_J = 25^\circ C$ unless stated otherwise)									
Parameter	Symbol	6FL5S02 6FL5S05 6FL5S10	6FL10S02 6FL10S05 6FL10S10	6FL20S02 6FL20S05 6FL20S10	6FL40S02 6FL40S05 6FL40S10	6FL60S02 6FL60S05 6FL60S10	6FL80S05 6FL80S10	6FL100S05 6FL100S10	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volt
Maximum Average On-State Current	$I_{F(AV)}$	6.0							Amp
Peak Forward Surge Current 8.3mS	I_{FSM}	115							Amp
Maximum I^2T for Fusing 8.3ms	I^2T	55							A^2/S
Maximum Storage Temperature Range	$T_{(STG)}$	-65 to +175							$^\circ C$
Maximum Junction Temperature Range	T_J	-65 to +150							$^\circ C$

ELECTRICAL CHARACTERISICS at Tj = 25°C Maximum. Unless stated Otherwise						
Parameter		Condition	Value			Unit
	Symbol		Min	Typ	Max	
Maximum Forward Voltage	V _{FM}	I _{FM} = 6 Amps			1.4	Volt
Repetitive Peak Off- State Current	I _{DRM}	V _R = V _{RRM}			50	μA
Reverse Recovery Time for S02	t _{RR}				110	nS
Reverse Recovery Time for S05	t _{RR}				285	nS
Reverse Recovery Time for S10	t _{RR}				490	nS
Thermal Resistance (Junction to Case)	R _{TH (J-C)}				2.5	°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