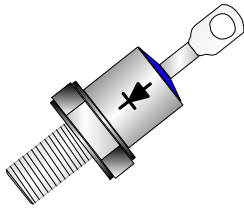




# 6FL Series

## Fast Recovery Rectifier

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



Cathode to Stud Shown

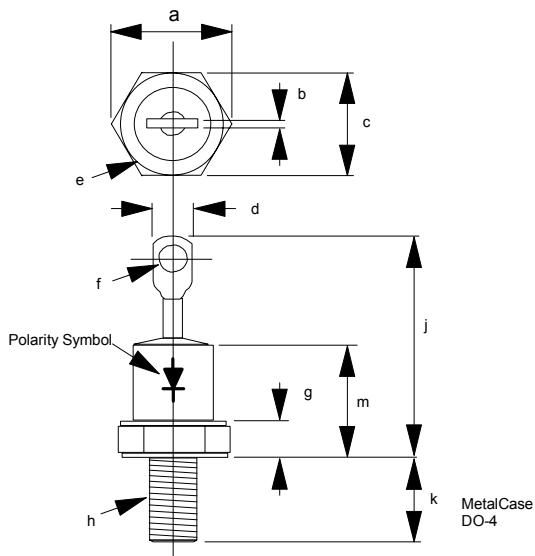
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS (T <sub>J</sub> = 25°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 <sub>RRM</sub>	50	100	200	400	600	800	1000	Volt
Maximum Average On-State Current	I <sub>F(AV)</sub>	6.0							Amp
Peak Forward Surge Current 8.3ms	I <sub>FSM</sub>	115							Amp
Maximum I <sup>2</sup> T for Fusing 8.3ms	I <sup>2</sup> T	55							A <sup>2</sup> /S
Maximum Storage Temperature Range	T <sub>(STG)</sub>	-65 to +175							°C
Maximum Junction Temperature Range	T <sub>J</sub>	-65 to +150							°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> = 6 Amps			1.4	Volt
Repetitive Peak Off- State Current	I <sub>DRM</sub>	V <sub>R</sub> = V <sub>RRM</sub>			50	µA
Reverse Recovery Time for S02	t <sub>RR</sub>				110	nS
Reverse Recovery Time for S05	t <sub>RR</sub>				285	nS
Reverse Recovery Time for S10	t <sub>RR</sub>				490	nS
Thermal Resistance (Junction to Case)	R <sub>TH (J-C)</sub>				2.5	°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