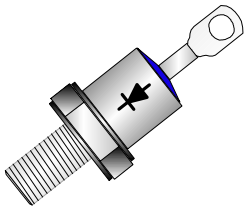
Transys Electronics LIMITED

6FL Series

Fast Recovery Rectifier

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



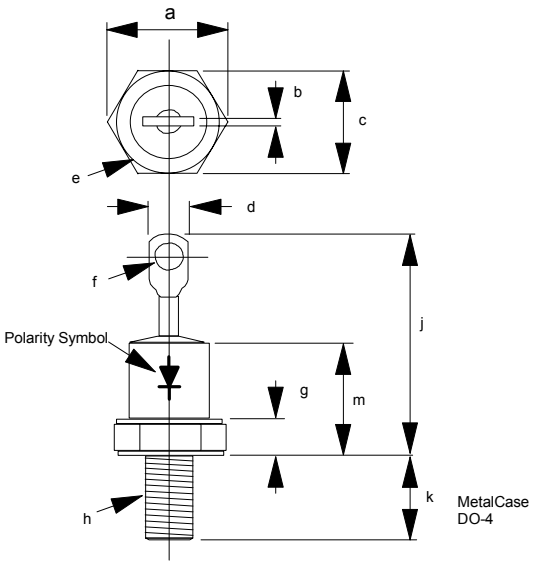
Cathode to Stud Shown

(Anode to Stud add Suffix R)

Symbol

MAXIMUM RATINGS (Tj = 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_{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^2S
Maximum Storage Temperature Range	$T_{(STG)}$	-65 to +175							°C
Maximum Junction Temperature Range	Tj	-65 to +150							°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				
	Millimetres		Inches	
Dim	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