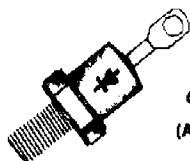


6F(R) SERIES
STANDARD RECOVERY DIODE



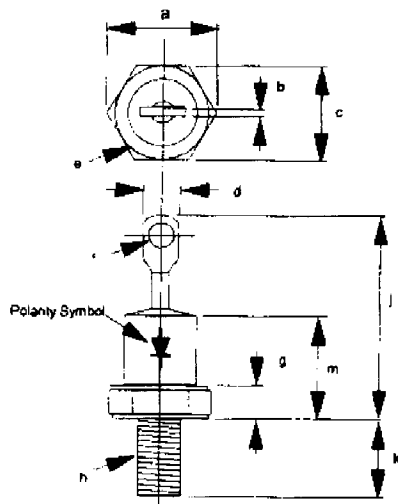
Cathode to Stud Shown
(Anode to Stud add Suffix R)

Symbol



MAXIMUM RATINGS (Tj = 25 °C unless stated otherwise)		Add Prefix "A" for avalanche 400-1200V							
Parameter	Symbol	6F(R) -10	6F(R) -20	6F(R) -40	6F(R) -60	6F(R) -80	6F(R) -100	6F(R) -120	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	1200	Volt
Maximum Average On-State Current	I _{F(AV)}	6.0 at Tc = 160°C							Amp
Peak Forward Surge Current 8.3mS	I _{FSM}	167							Amp
Maximum I ² T for Fusing 8.3ms	I ² T	82							A ² /S
Maximum Storage Temperature Range	T _(STG)	-65 to +200							°C
Maximum Junction Temperature Range	T _J	-65 to +175							°C

ELECTRICAL CHARACTERISTICS at Tj = 25 °C Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage	V _{FM}	I _{FM} = 19 Amps			1.10	Volt
Repetitive Peak Reverse Current	I _{RRM}	V _r = V _{RRM} , T _j = 175°C			12.0	mA
Maximum non-repetitive peak reverse power (Avalanche Version)	P _R	t _p = 10µs rect wave at t _j Max			4.0	kW
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



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		10.46
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

Metal Case
DO-4

