PFM50A/PFM75A
Axial Leaded Hermetically Sealed High Voltage Fast Rectifier Diode

POWER DISCRETES

Description

Quick reference data

V_R = 5 - 7.5kV
I_F = 92mA
t_{rr} = 250nS
I_R = 0.5µA

Features

- Low reverse recovery time
- Very low leakage current
- Glass passivated for hermetic sealing
- Soft, non-snap off, recovery characteristics
- Avalanche capability
- Please contact factory regarding HR screening

Absolute Maximum Ratings

Electrical specifications @ T_A = 25°C unless otherwise specified.

	Symbol	PFM50A	PFM75A	Units
Working Reverse Voltage	V_{RWM}	5000	7500	V
Repetitive Reverse Voltage	V_{RRM}	5650	8500	V
Surge Reverse Voltage	V_{RSM}	5650	8500	V
Average Forward Current @ 55°C, in oil	$I_{F(AV)}$	92		mA
Repetitive Surge Current @ 55°C in oil, lead length 0.375"	$I_{F(AV)}$	1.0		A
Non-Repetitive Surge Current (tp = 8.3mS @ V_R & T_{JMAX})	I_{FSM}	2.0		A
Storage Temperature Range	T_{STG}	-65 to +150		°C

POWER DISCRETES

Electrical Specifications

Electrical specifications @ T_A = 25°C unless otherwise specified.

	Symbol	PFM50A/PFM75A	Units
Average Forward Current max. Unstirred oil @ 55°C	$I_{F(AV)}$	92	mA
Forward Voltage Drop max. @ I_F = 25mA, Tj = 25°C	V_F	12.5	V
Reverse Current max. @ V_{RWM}, Tj = 25°C @ V_{RWM}, Tj = 100°C	I_R I_R	0.5 20	µA
Reverse Recovery Time max. 50mA I_F, 100mA I_R, 25mA $I_{RM(REC)}$	trr	250	nS
Junction Capacitance typ. @ V_R = 50V, f = 1KHz	Cj	2	pF

Thermal Characteristics

	Symbol	PFM50A/PFM75A	Units
Thermal Resistance-Junction to Oil Stirred oil Unstirred oil	$R_{\theta JO}$	 48 64	°C/W
Thermal Resistance-Junction to Ambient On 0.06" thick pcb. 1oz copper	$R_{\theta JA}$	160	°C/W

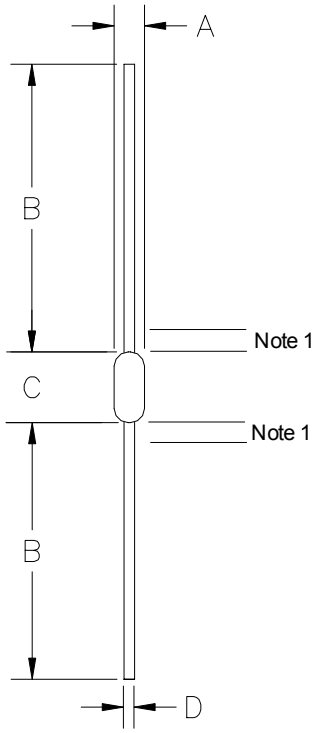
POWER DISCRETES

Ordering Information

Part Number	Description
PFM50A/PFM75A	Axial leaded hermetically sealed(1)

Note:
(1) Available in bulk and tape and reel packaging. Please consult factory for quantities.

Outline Drawing



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Dimensions					
DIM[N]	Inches		Millimeters		Note
	MIN	MAX	MIN	MAX	
A	-	.118	-	3.0	-
B	1.0	-	25.4	-	-
C	-	.374	-	9.5	-
D	-	0.033	-	0.84	-

Note:
1. Lead diameter not controlled in this area.

Contact Information

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