

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

POWER DISCRETES

Description

Quick reference data

 $V_{R} = 5 - 7.5 kV$ $I_{F} = 92 mA$ $t_{rr} = 250 nS$ $I_{R} = 0.5 \mu A$

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		А
Non-Repetitive Surge Current (tp = 8.3mS @ $V_R \& T_{JMAX}$)	I _{FSM}	2.0		А
Storage Temperature Range	T _{STG}	-65 to +150		°C



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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. $@V_{RWM}$, $Tj = 25^{\circ}C$ $@V_{RWM}$, $Tj = 100^{\circ}C$	R R	0.5 20	μA
Reverse Recovery Time max. 50mA $I_{\rm F,}$ 100mA $I_{\rm R,}$ 25mA $I_{\rm RM(REC)}$	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 _{e 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

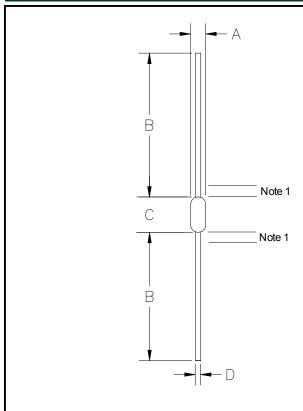
Ordering Information

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



G82

Dimensions					
DIM	Inches		Millimeters		Note
	MIN	MAX	MIN	MAX	
А	-	.118	_	3.0	-
В	1.0	_	25.4	-	_
С	-	.374	-	9.5	-
D	-	0.033	-	0.84	_

Note:

1. Lead diameter not controlled in this area.

Contact Information

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