

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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



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} , $Tj = 25^{\circ}C$ @ V_{RWM} , $Tj = 100^{\circ}C$	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 _{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

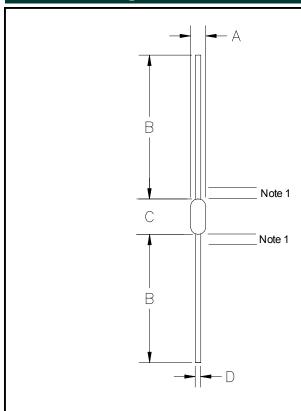
Ordering Information

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					
	Inches		Millimeters		Note
DIM [№]	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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