



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!



## Contact us

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**POWER DISCRETES**
**Description**

Quick reference data

$$V_R = 600V - 1000V$$

$$I_F = 2.0A$$

$$t_{rr} = 3\mu S$$

$$I_R = 1.0\mu A$$

**Features**

- ◆ Avalanche capability
- ◆ High thermal shock resistance
- ◆ Glass passivated for hermetic sealing
- ◆ Low reverse leakage currents
- ◆ Low forward voltage drop

These products are available in Europe to DEF STAN 59-61 (PART 80)/034 to F and FX levels.

**Absolute Maximum Ratings**

Electrical specifications @  $T_A = 25^\circ C$  unless otherwise specified.

	Symbol	PM6	PM8	PM0	Units
Working Reverse Voltage	$V_{RWM}$	600	800	1000	V
Repetitive Reverse Voltage	$V_{RRM}$	600	800	1000	V
Surge Reverse Voltage	$V_{RSM}$	650	900	1100	V
Average Forward Current @55 °C, lead length 0.375"	$I_{F(AV)}$	2.0			A
Repetitive Surge Current @55 °C in free air, lead length 0.375"	$I_{FRM}$	12.0			A
Non-Repetitive Surge Current ( $t_p = 10mS$ , half sinewave)	$I_{FSM}$	50			A
Storage Temperature Range	$T_{STG}$	-55 to +175			°C

**POWER DISCRETES**
**Electrical Specifications**

	Symbol	PM6	PM8	PM0	Units
Average Forward Current	$I_{F(AV)}$		2.0		A
I <sup>2</sup> T for fusing (t = 8.3mS) max.	I <sup>2</sup> T		8		A <sup>2</sup> S
Forward Voltage Drop max. @ $I_F = 1.00A$ , $T_j = 25^\circ C$	$V_F$		1.0		V
Reverse Current max. @ $V_{RWM}$ , $T_j = 25^\circ C$ @ $V_{RWM}$ , $T_j = 100^\circ C$	$I_R$ $I_R$		1.0 10		$\mu A$
Reverse Recovery Time typ. 0.5A $I_F$ to 1.0A $I_{RM}$ recovers to 0.25A $I_{RM(REC)}$	trr		3		$\mu S$
Junction Capacitance typ. @ $V_r = 4V$ , $f = 1MHz$	Cj		18		pF

**Thermal Characteristics**

	Symbol	PM6	PM8	PM0	Units
Thermal Resistance-Junction to Lead Lead length = 0.375" Lead length = 0"	$R_{\theta JL}$ $R_{\theta JL}$		47 19		$^\circ C/W$

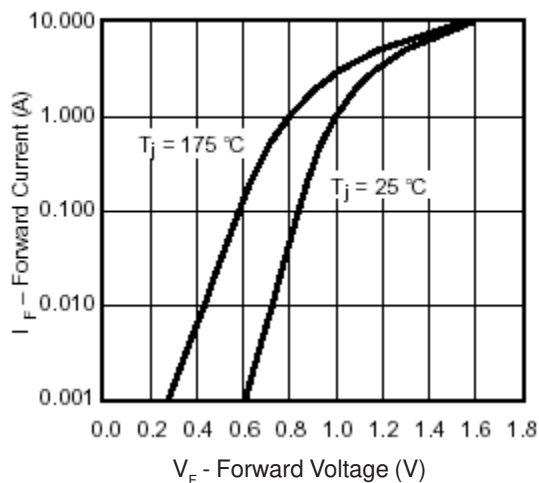
**Maximum Characteristics**


Figure 1. Forward Current vs. Forward Voltage

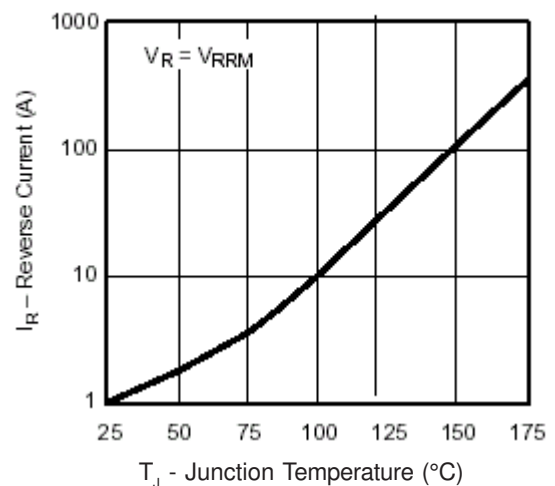


Figure 2. Reverse Current vs. Junction Temperature

**POWER DISCRETES**

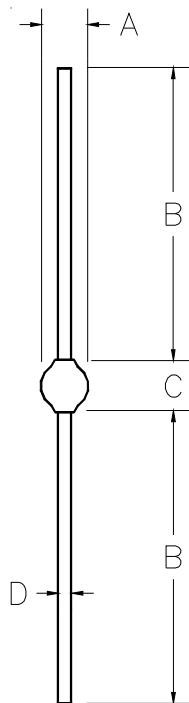
**Ordering Information**

Part Number	Description
PM6 PM8 PM0	Axial leaded hermetically sealed <sup>(1)</sup>

Note:

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

**Outline Drawing**



Dimensions					
DIM <sup>N</sup>	Inches		Millimeters		Note
	MIN	MAX	MIN	MAX	
A	-	.150	-	3.81	-
B	1.014	-	26	-	-
C	-	.180	-	4.57	-
D	-	.032	-	0.82	-

Weight = 369mg

**Contact Information**

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