

Surface Mount Glass Passivated Low VF Bridge Rectifier

Voltage

800 V

Current

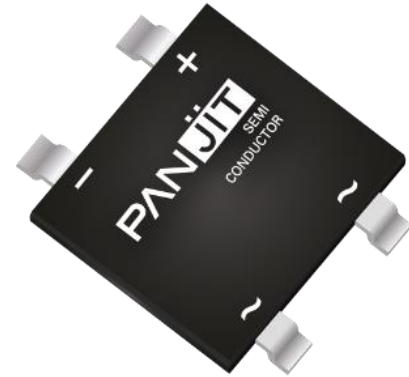
10A

M8

Features



- Glass passivated chip junction
- Low forward voltage drop
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Ultra thin profile package for space constrained utilization
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

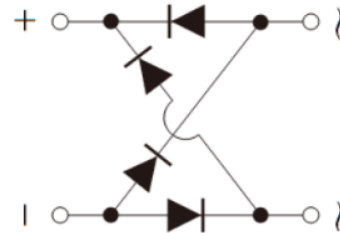


Mechanical Data

- Case : M8 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.4794 grams

Application

- Commercial Laptop Adapter
- Gaming NB Adapter
- Game Console Power
- TV Power Board



Key Parameters	
Parameter	Value
V_{RRM}	800V
$I_F(AV)$	10A
I_{FSM}	190A
$V_F@125^{\circ}C,(typ)$	0.76V
I_R	5uA
Package	M8

Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	800	V
Maximum RMS Voltage		V_{RMS}	560	V
Maximum DC Blocking Voltage		V_{DC}	800	V
Maximum Average Forward Current		$I_{F(AV)}$	10	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$	I_{FSM}	190	A
	@ $T_A = 125^\circ\text{C}$		152	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$	I_{FSM}	380	A
	@ $T_A = 125^\circ\text{C}$		304	
$I^2 t$ rating for fusing ($t = 8.3\text{ms}$)		$I^2 t$	150	A^2S
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$		C_J	72	pF
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	16	$^\circ\text{C/W}$
		$R_{\theta JL}$	8	
		$R_{\theta JC}$	2.5	
Operating junction and storage temperature range		T_J, T_{STG}	-55~150	$^\circ\text{C}$

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 5\text{ A}, T_J = 25^\circ\text{C}$	-	0.9	0.95	V
		$I_F = 5\text{ A}, T_J = 125^\circ\text{C}$	-	0.76	-	
Reverse Current	I_R	$V_R = 800\text{ V}, T_J = 25^\circ\text{C}$	-	-	5	μA
		$V_R = 800\text{ V}, T_J = 125^\circ\text{C}$	-	-	100	

NOTES :.

1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.

TYPICAL CHARACTERISTIC CURVES

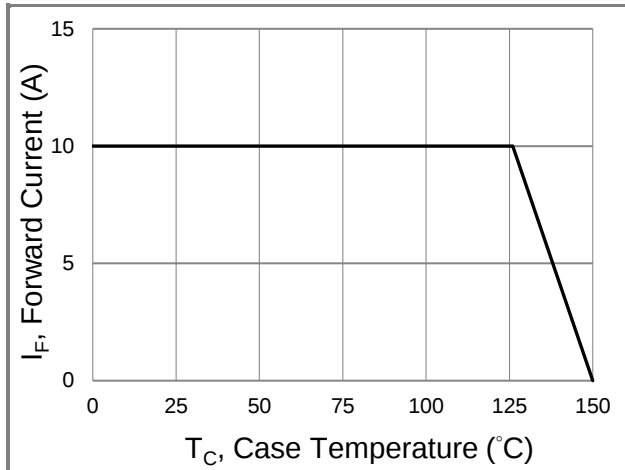


Fig.1 Forward Current Derating Curve

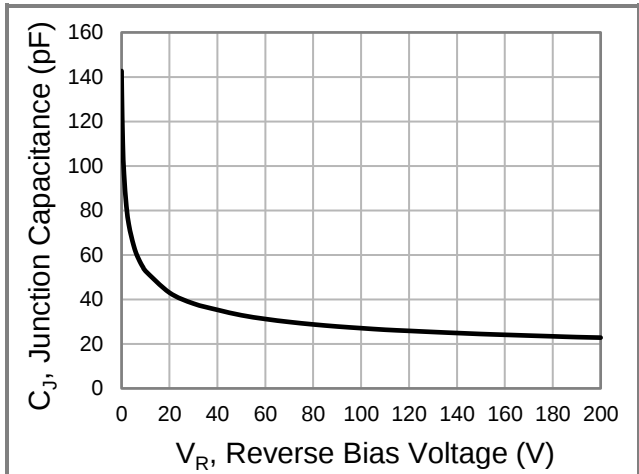


Fig.2 Typical Junction Capacitance

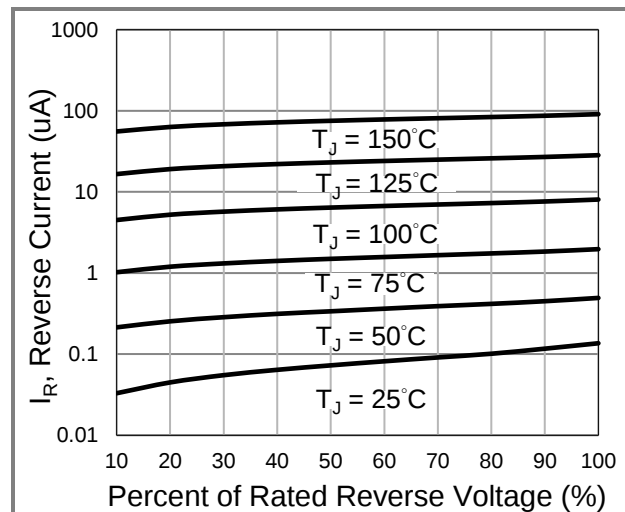


Fig.3 Typical Reverse Characteristics

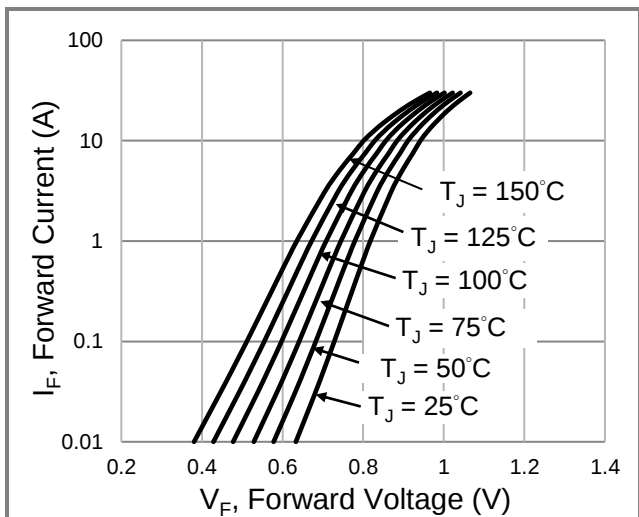


Fig.4 Typical Forward Characteristics

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PM1008LL	M8	2K pcs / 13" reel	PM1008LL

Packaging Information & Mounting Pad Layout

M8 Dimension

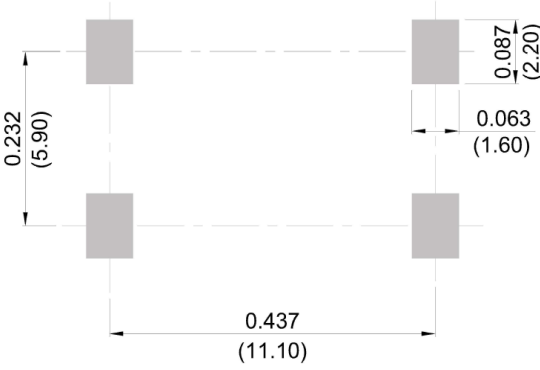
Unit: inch(mm)

The image shows three views of an M8 connector:

- Top View:** A rectangular component with dimensions A (height), B (width), and C (thickness). It features a central cross-shaped mark and two curved marks on the right side. Dimensions W and H are indicated for the side features.
- Side View:** A vertical view showing the profile of the component with dimensions C (total thickness) and K (a specific thickness segment).
- Front View:** A view from the front showing a cylindrical feature with dimensions D (length), E (height), F (flange thickness), and J (radius/offset).

M8 Dimension.Unit:Inch(mm)

Dim	Unit (Inch)		Unit (mm)	
	Min	Max	Min	Max
A	0.392	0.404	9.95	10.25
B	0.344	0.356	8.75	9.05
C	0.059	0.067	1.51	1.71
D	0.461	0.476	11.70	12.10
E	0.049	0.061	1.25	1.55
F	0.008	0.016	0.20	0.40
H	0.228	0.236	5.80	6.00
J	0.022	0.041	0.55	1.05
K	0.032	0.040	0.81	1.01
L	0.000	0.006	0.00	0.15

M8 Pad Layout	Unit: inch(mm)
	

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