

Surface Mount Glass Passivated Low VF Bridge Rectifier

Voltage

800 V

Current

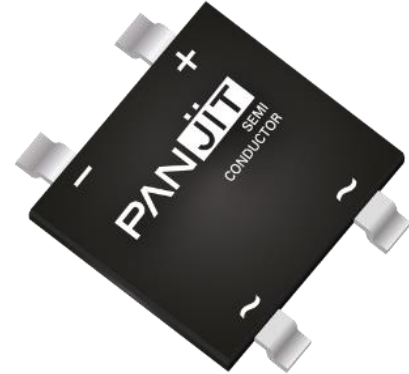
8A

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

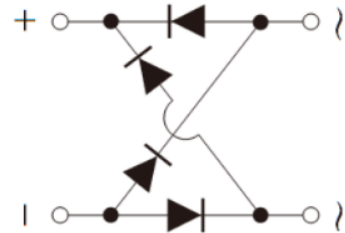


Mechanical Data

- 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
$I_F(AV)$	8A
I_{FSM}	170A
$V_F@125^{\circ}C,(typ)$	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		$I_{F(AV)}$	8	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$	I_{FSM}	170	A
	@ $T_A = 125^\circ\text{C}$		136	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$	I_{FSM}	340	A
	@ $T_A = 125^\circ\text{C}$		272	
$I^2 t$ rating for fusing ($t = 8.3\text{ms}$)		$I^2 t$	120	A^2S
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$		C_J	65	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	$I_F = 4\text{ A}, T_J = 25^\circ\text{C}$	-	0.90	0.95	V
		$I_F = 4\text{ A}, T_J = 125^\circ\text{C}$	-	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

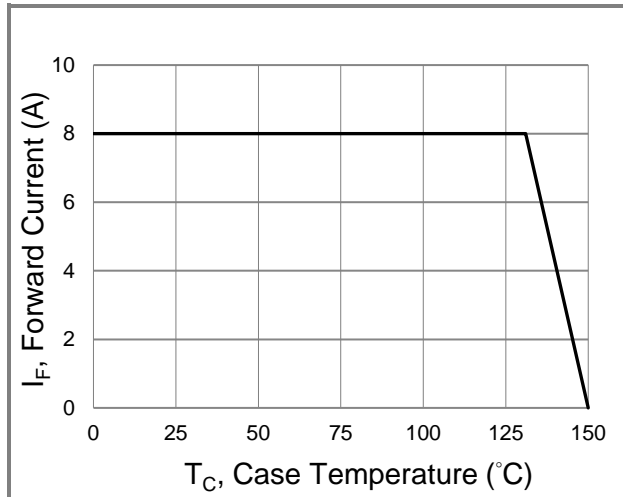


Fig.1 Forward Current Derating Curve

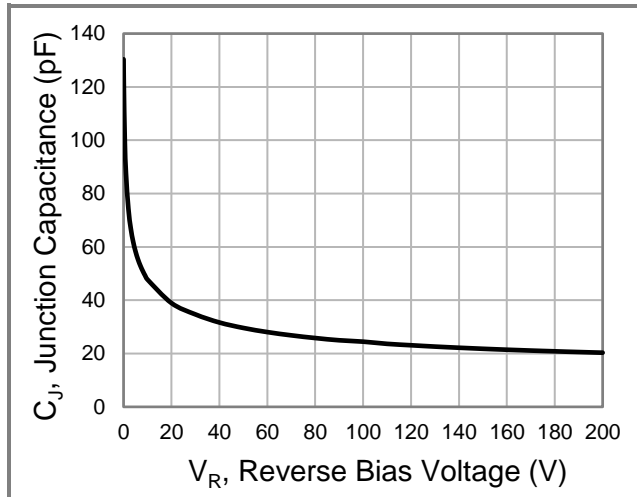


Fig.2 Typical Junction Capacitance

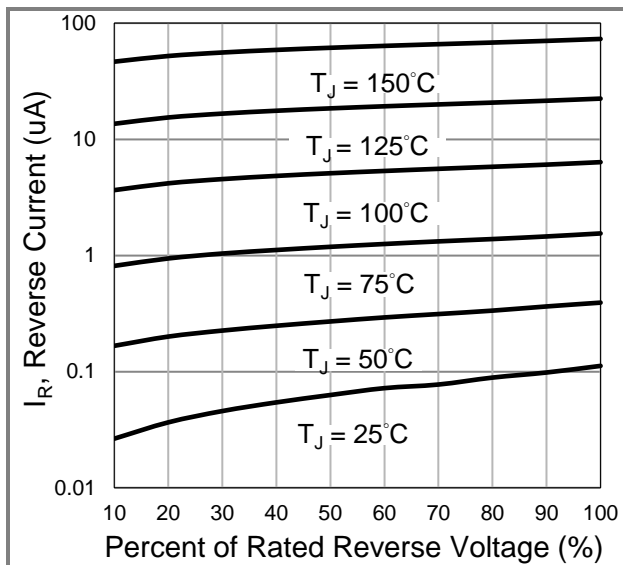


Fig.3 Typical Reverse Characteristics

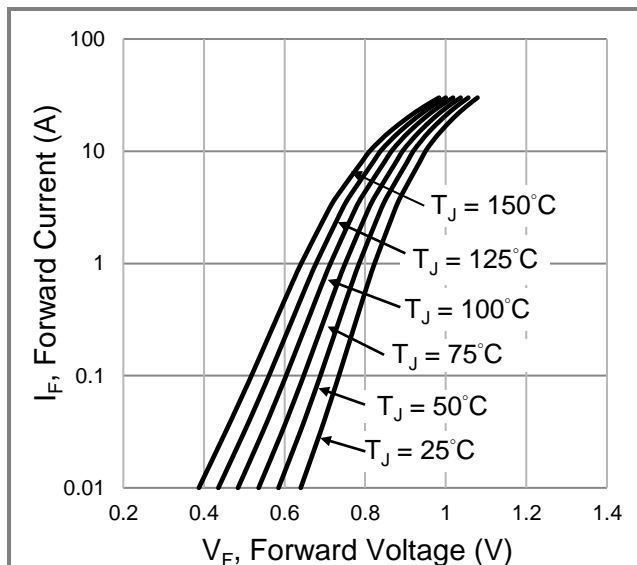
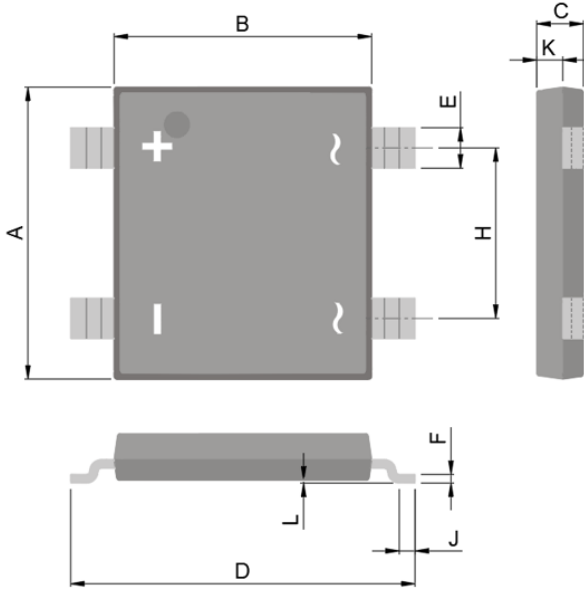


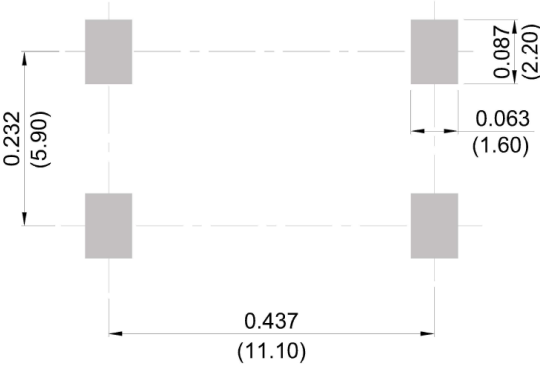
Fig.4 Typical Forward Characteristics

Product and Packing Information

Approved Part No.	Package Type	Packing Type	Marking
PM808LL	M8	2K pcs / 13" reel	PM808LL

Packaging Information & Mounting Pad Layout

M8 Dimension		Unit: inch(mm)			
		M8 Dimension.Unit:Inch(mm)			
		Unit (Inch)		Unit (mm)	
Dim		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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