Surface Mount Glass Passivated Low VF Bridge Rectifier

Voltage	800 V	Current	3A

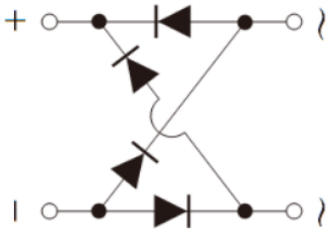
M4

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 : M4 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.29 grams



Application

- >65W PD Charger
- Slim Adapter
- NB Gaming
- TV/Monitor Power

Key Parameters	
Parameter	**Value**
V_{RRM}	800V
$I_F(AV)$	3A
I_{FSM}	110A
V_F@125˚C,(typ)	0.76V
I_R	5uA
Package	M4

Maximum Ratings and Thermal Characteristics (T_A = 25 °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		$I_{F(AV)}$	3	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T_A = 25 °C	I_{FSM}	110	A
	@ T_A = 125 °C		80	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T_A = 25 °C	I_{FSM}	200	A
	@ T_A = 125 °C		150	
I^2t rating for fusing (t = 8.3ms)		I^2t	50.2	A^2S
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V		C_J	40	pF
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	25	°C/W
		$R_{\theta JL}$	12	
		$R_{\theta JC}$	6	
Operating junction and storage temperature range		T_J, T_{STG}	-55~150	°C

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 1.5 A, T_J = 25 °C	-	0.9	0.95	V
		I_F = 1.5 A, T_J = 125 °C	-	0.76	-	
Reverse Current	I_R	V_R = 800 V, T_J = 25 °C	-	-	5	uA
		V_R = 800 V, T_J = 125 °C	-	-	100	

NOTES :

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

TYPICAL CHARACTERISTIC CURVES

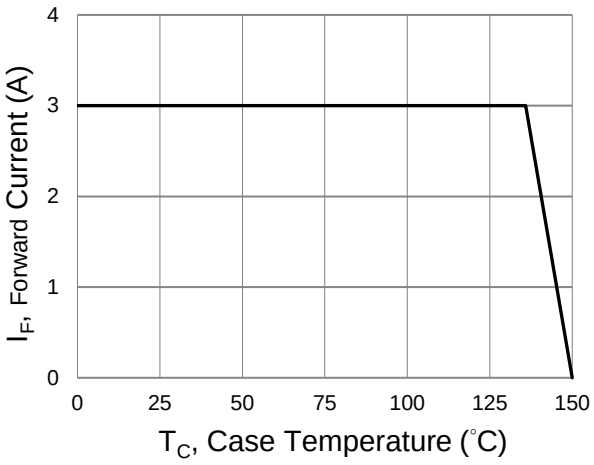


Fig.1 Forward Current Derating Curve

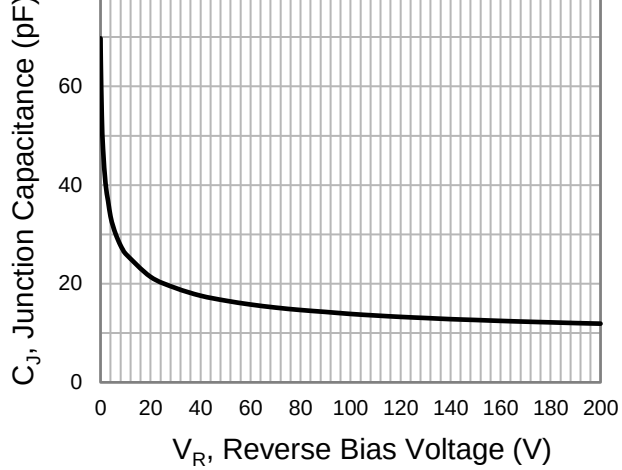


Fig.2 Typical Junction Capacitance

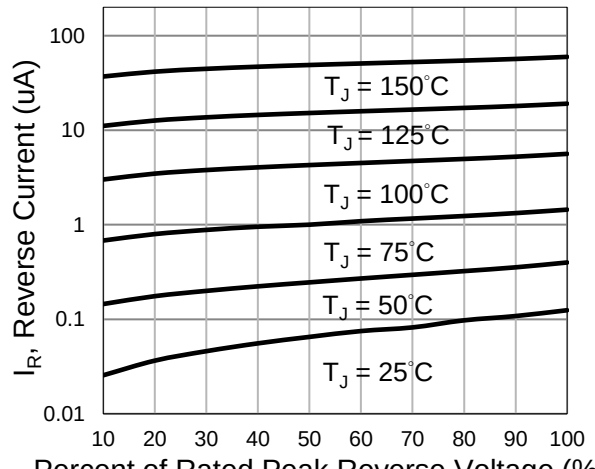


Fig.3 Typical Reverse Characteristics

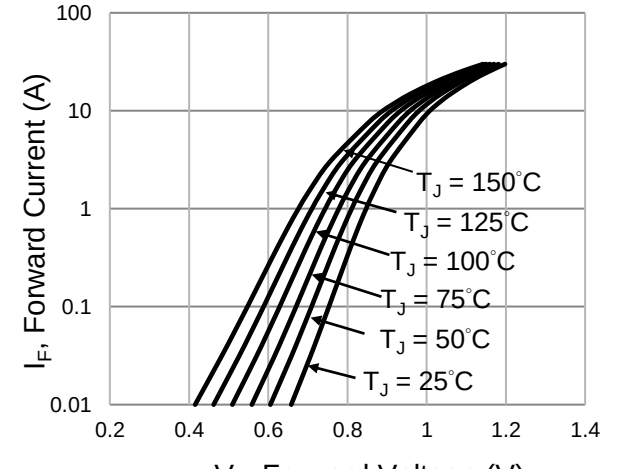


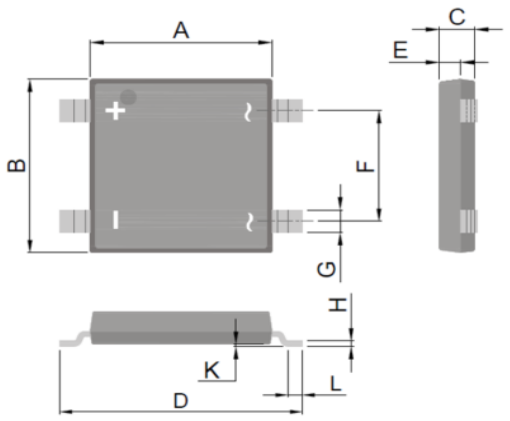
Fig.4 Typical Forward Characteristics

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PMS308LL	M4	3K pcs / 13” reel	PMS308LL

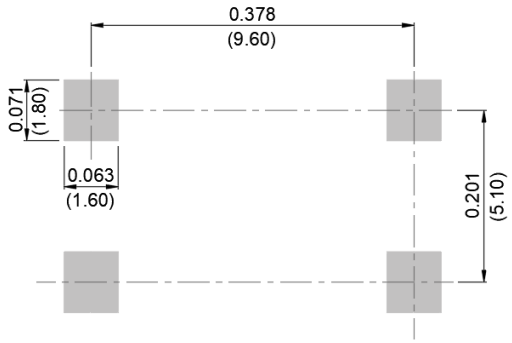
Packaging Information & Mounting Pad Layout

M4 Dimension — Unit: inch(mm)



M4 Dimension.Unit:Inch(mm)				
Dim	Unit (Inch)		Unit (mm)	
	Min	Max	Min	Max
A	0.301	0.313	7.65	7.95
B	0.309	0.321	7.85	8.15
C	0.056	0.063	1.41	1.61
D	0.402	0.417	10.20	10.60
E	0.032	0.040	0.81	1.01
F	0.197	0.205	5.00	5.20
G	0.035	0.047	0.90	1.20
H	0.006	0.014	0.15	0.35
K	0.000	0.006	0.00	0.15
L	0.022	0.041	0.55	1.05

M4 Pad Layout — Unit: inch(mm)



Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.