

Surface Mount Glass Passivated Low VF Bridge Rectifier

Voltage

800 V

Current

8A

<u>M8</u>

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

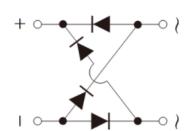
• Terminals : Solderable per MIL-STD-750, Method 2026

• 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°C,(typ)	0.76V		
I _R	5uA		
Package	M8		





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)}	8	А	
Peak Forward Surge Current: 8.3	@ T _A = 25 °C		170	А	
ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	136		
Peak Forward Surge Current : 1.0	@ T _A = 25 °C		340	А	
ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	272		
I ² t rating for fusing (t = 8.3ms)		I²t	120	A ² S	
Typical Junction Capacitance			0.5	_	
Measured at 1 MHZ And Applied V _R = 4 V		CJ	65	pF	
	R _θ ЈА	16			
Typical Thermal Resistance (Note 1)		$R_{\theta JL}$	8	°C/W	
	Rejc	2.5			
Operating junction and storage temperature	T _J , T _{STG}	-55~150	°C		

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Farmer Maltage	VF	I _F = 4 A, T _J = 25 °C	ı	0.90	0.95	V
Forward Voltage		I _F = 4 A, T _J = 125 °C	1	0.76	-	
Reverse Current		V _R = 800 V, T _J = 25 °C	ı	1	5	^
	IR	V _R = 800 V,T _J = 125 °C	-	-	100	uA

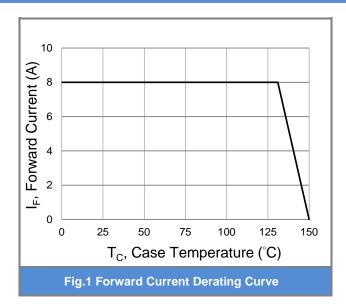
NOTES:

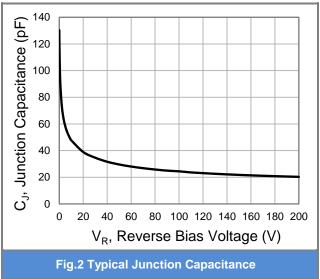
1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.

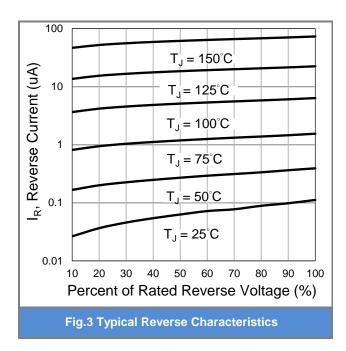
August 5,2024 PM808LL-REV.00 Page 2

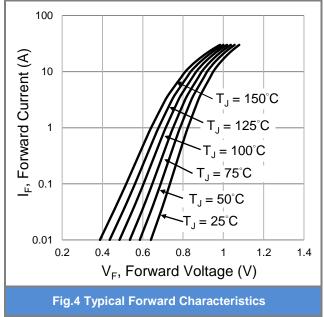


TYPICAL CHARACTERISTIC CURVES







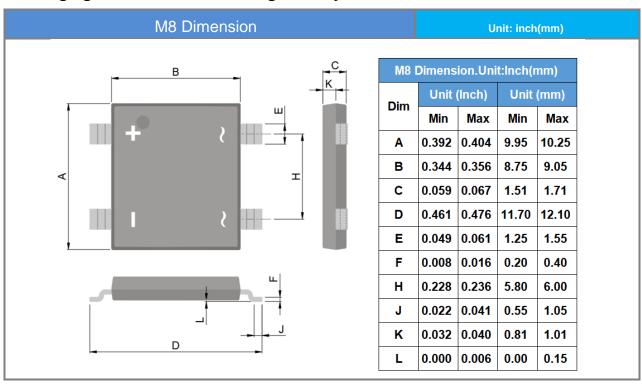


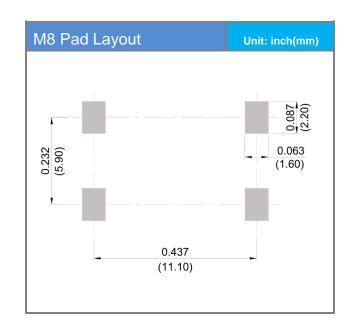


Product and Packing Information

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

Packaging Information & Mounting Pad Layout







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August 5,2024 PM808LL-REV.00 Page 5