

Surface Mount Glass Passivated Fast Bridge Rectifier

<u>M8</u>

Voltage

1000 V

Current

5A

Features



- Fast reverse recovery time
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Ultra thin profile package for space constrained utilization
- UL recognition file number E111753
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard



Mechanical Data

• Case: M8 Package

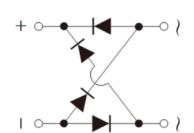
• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.4794 grams

Application

- Quick Charger (<45W)
- General power adapter (<50W)
- USB PD , NB Adapter (<65W)
- 3-in-1 DTV Power Board (<45W)
- Smart speaker adapter(<40W)

Key Parameters			
Parameter	Value		
V_{RRM}	1000V		
I _F (AV)	5A		
I _{FSM}	130A		
I _R	5uA		
T _{rr}	250ns		
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}	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Current		I _{F(AV)}	5	А
Peak Forward Surge Current : 8.3	@ T _A = 25 °C		130	
ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	104	A
Peak Forward Surge Current : 1.0	@ T _A = 25 °C		260	
ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	208	A
I ² t rating for fusing (t = 8.3ms)		I²t	70	A ² S
Typical Junction Capacitance			40	pF
Measured at 1 MHZ And Applied V _R = 4 V		CJ	40	
Maximum Reverse Recovery Time (Note 2)		Trr	250	ns
	R _{0JA}	20		
Typical Thermal Resistance (Note 1)		Rejl	8	°C/W
	Rелс	5		
Operating junction and storage temperature range		T _J , T _{STG}	-55~150	°C

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	I _F = 2.5 A, T _J = 25 °C	-	-	1.3	V	
D	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	uA	
Reverse Current		V _R = 1000 V,T _J = 125 °C	-	-	100		

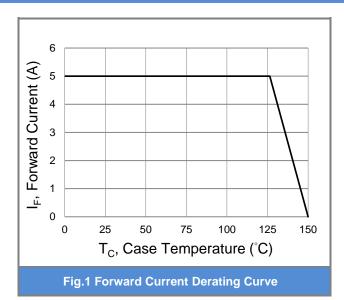
NOTES:

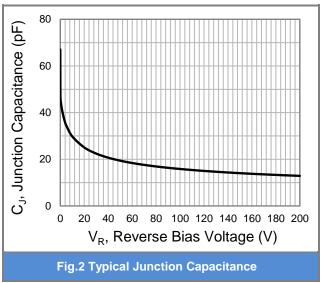
1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.

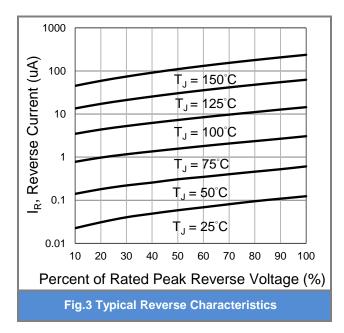
2. Measured with IF = 0.5 A, IR= 1 A, IRR = 0.25 A.

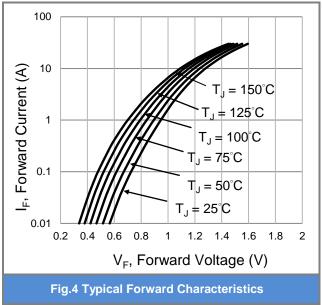


TYPICAL CHARACTERISTIC CURVES







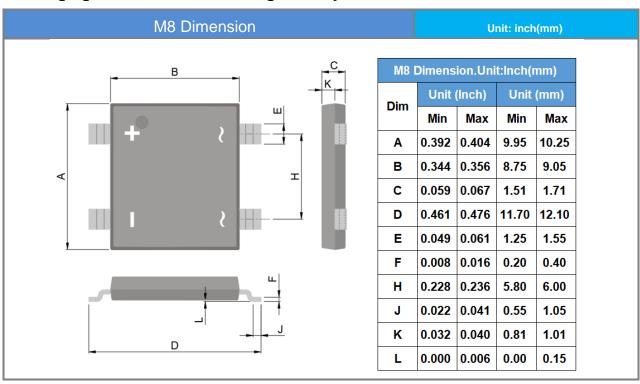


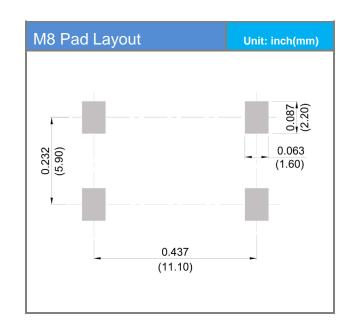


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
RPM510	M8	2K pcs / 13" reel	RPM510

Packaging Information & Mounting Pad Layout







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