

## **Surface Mount Glass Passivated Bridge Rectifier**

<u>M4</u>

Voltage

1000 V

Current

4A

#### **Features**



- Glass passivated chip junction
- 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

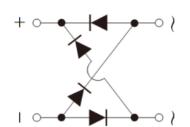
• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.29 grams

### **Application**

- QC/PD Charger
- General Console power
- NB Adapter
- Monitor Power
- Smart Speaker Power
- Slim Adapter

Key Parameters			
Parameter	Value		
V <sub>RRM</sub>	1000V		
I <sub>F</sub> (AV)	4A		
I <sub>FSM</sub>	120A		
I <sub>R</sub>	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 <sub>RRM</sub>	1000	V	
Maximum RMS Voltage		V <sub>RMS</sub>	700	V	
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V	
Maximum Average Forward Current		I <sub>F(AV)</sub>	4	Α	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C		120	А	
	@ T <sub>A</sub> = 125 °C	I <sub>FSM</sub>	96		
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C		240	А	
	@ T <sub>A</sub> = 125 °C	IFSM	170		
I <sup>2</sup> t rating for fusing (t = 8.3ms)		I <sup>2</sup> t	59.76	A <sup>2</sup> S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$		CJ	50	pF	
	R <sub>θJA</sub>	26	°C/W		
Typical Thermal Resistance (Note 1)		$R_{ heta JL}$			10
		Rejc	11		
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C	

# **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 2 A, T <sub>J</sub> = 25 °C	ı	ı	1.05	V	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 1000 V, T <sub>J</sub> = 25 °C	-	-	5		
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	100	uA	

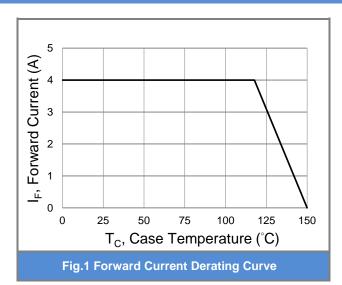
#### NOTES:

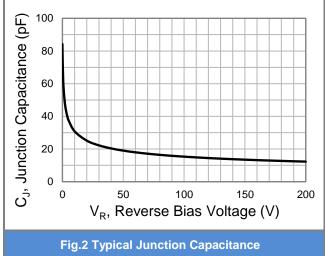
1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.

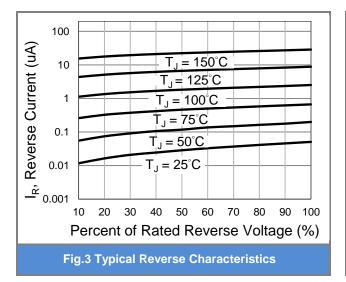
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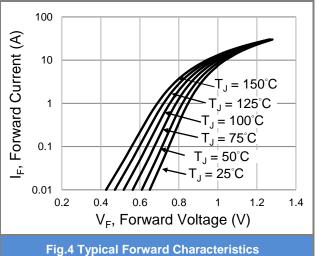


#### **TYPICAL CHARACTERISTIC CURVES**







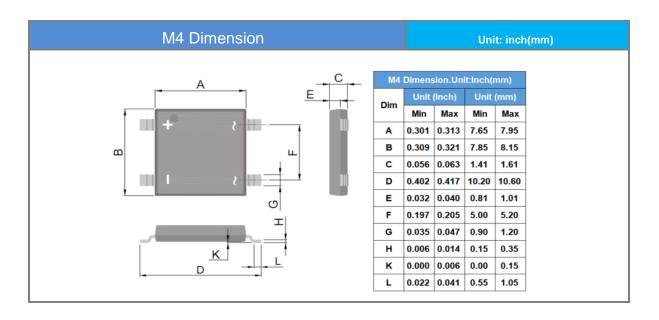


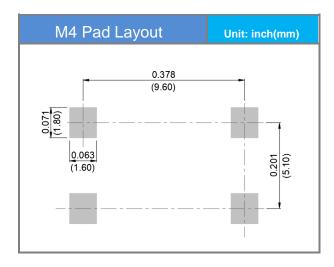


## Part No. Packing Code Version

Approved Part No.	Package Type	Packing Type	Marking
PMS410	M4	3K pcs / 13" reel	PMS410

## **Packaging Information & Mounting Pad Layout**







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