

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

Voltage

1000 V

Current

3A

#### **Features**

- Glass passivated chip junction
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Ultra thin profile package for space constrained utilization
- Low forward voltage drop
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **Mechanical Data**

- Case: MSBL Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00825 ounces, 0.234 grams

### **Application**

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





# **Maximum Ratings and Thermal Characteristics** ( $T_A = 25$ °C unless otherwise noted)

PARAMETER			LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	1000	V
Maximum RMS Voltage		V <sub>RMS</sub>	700	V
Maximum DC Blocking Voltage			1000	V
Maximum Average Forward Current			3	Α
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C @ T <sub>A</sub> = 125 °C	IFSM	110 88	А
Peak Forward Surge Current : 1.0 ms Single Half Sine- Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C @ T <sub>A</sub> = 125 °C	IFSM	220 176	Α
I <sup>2</sup> t rating for fusing (t = 8.3ms)			50.2	A <sup>2</sup> S
Typical Junction Capacitance  Measured at 1 MHZ And Applied $V_R = 4 \text{ V}^{\text{(Note 1)}}$			40	pF
Typical Thermal Resistance (Note 2)			20	°C/W
Operating Junction Temperature Range			-55~150	°C
Storage Temperature Range			-55~150	°C

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

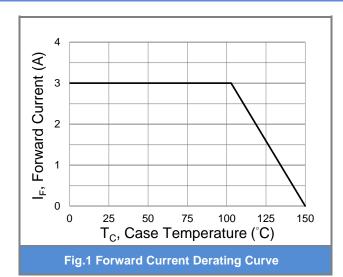
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 3 A, T <sub>J</sub> = 25 °C	1	ı	1.1	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 1000 V, T <sub>J</sub> = 25 °C	-	-	5	uA
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	ı	ı	100	

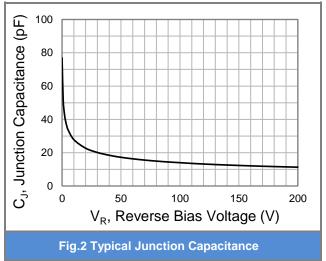
#### NOTES:

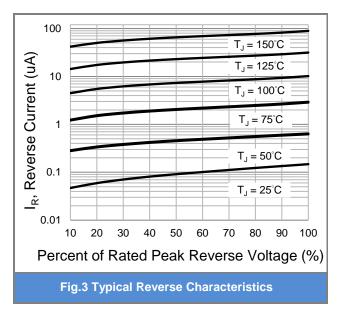
- 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area

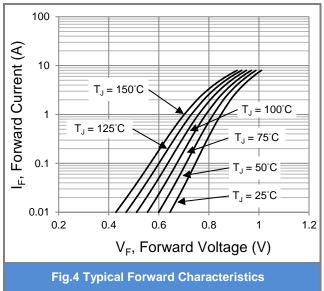


#### **TYPICAL CHARACTERISTIC CURVES**







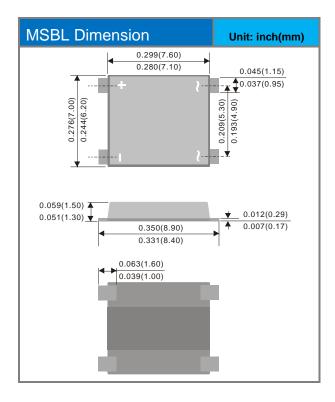


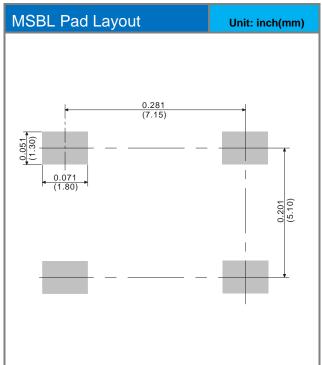


### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
MSB3M_R2_00101	MSBL	3K pcs / 13" reel	MSB3M

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







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