

Surface Mount Glass Passivated Bridge Rectifier

Current

Voltage

1000 V

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
- 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 (<20W)
- General power adapter (<30W)
- In-door Led lighting, Bulb/ PAR lighting
- Netcom power (<35W)
- Smart speaker adapter(<20W)





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

PARAMETER			LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		Vrrm	1000	V
Maximum RMS Voltage			700	V
Maximum DC Blocking Voltage			1000	V
Maximum Average Forward Current			4	А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	120 96	А
Peak Forward Surge Current : 1.0 ms Single Half Sine- Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	240 192	А
I^2 t rating for fusing (t = 8.3ms)	l ² t	60	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V^{(Note 1)}$			50	pF
Typical Thermal Resistance (Note 2)			24	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range			-55~150	°C

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	$I_F = 4 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	1.1	V	
Reverse Current	IR	V _R = 1000 V, T _J = 25 °C	-	-	5	uA	
		V _R = 1000 V,T _J = 125 °C	-	-	100		

NOTES :

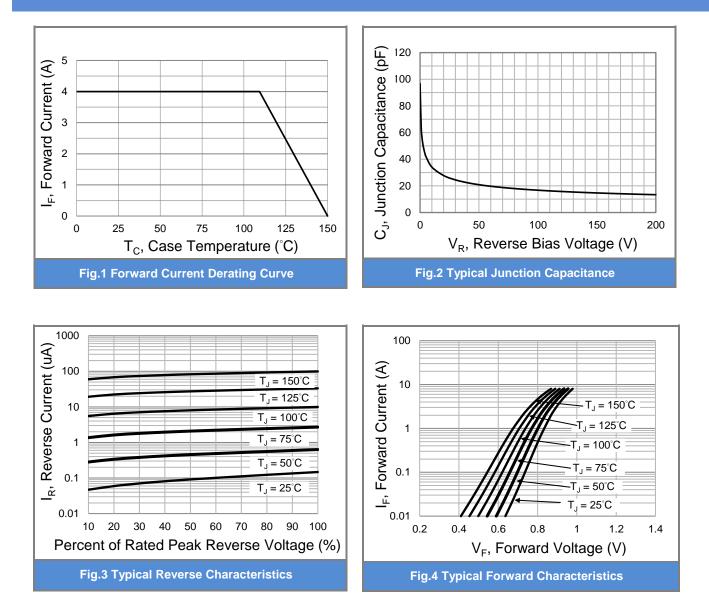
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

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



MSB4M

TYPICAL CHARACTERISTIC CURVES

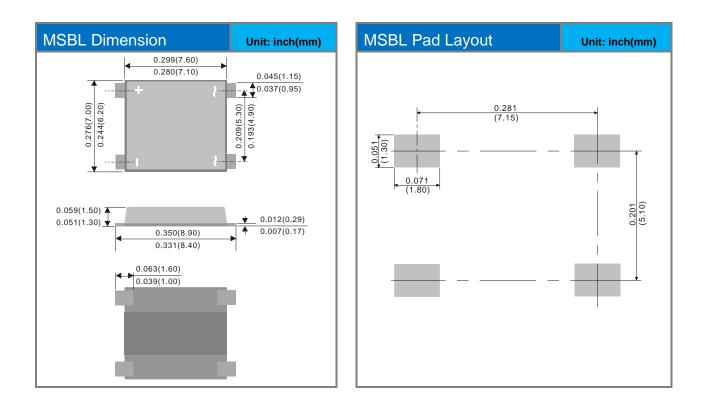




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
MSB4M_R2_00101	MSBL	3K pcs / 13" reel	MSB4M

Packaging Information & Mounting Pad Layout





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