

Surface Mount Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

2A

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 (<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		V_{RRM}	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC Blocking Voltage		V_{DC}	1000	V
Maximum Average Forward Current			2	Α
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	75 60	А
Peak Forward Surge Current : 1.0 ms Single Half Sine- Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	I _{FSM}	150 120	А
I ² t rating for fusing (t = 8.3ms)			24	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V^{(Note 1)}$			30	pF
Typical Thermal Resistance (Note 2)			20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range		T _{STG}	-55~150	∘C

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 2 A, T _J = 25 °C	1	1	1.1	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	uA
		V _R = 1000 V,T _J = 125 °C	-	-	100	

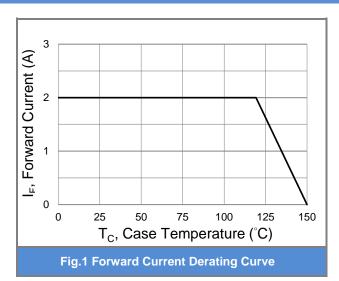
NOTES:

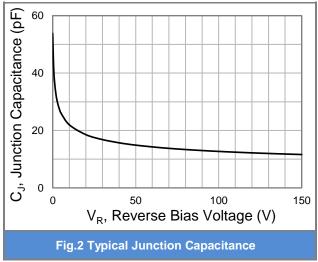
- 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2. Mounted on a FR4, 100x100x1.6mm, 2oz copper pad area

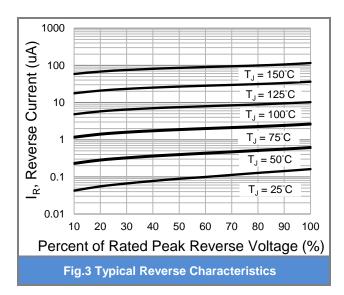
September 6,2021 MSB2M-REV.00 Page 2

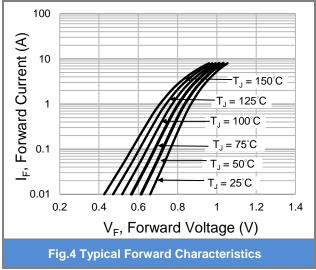


TYPICAL CHARACTERISTIC CURVES







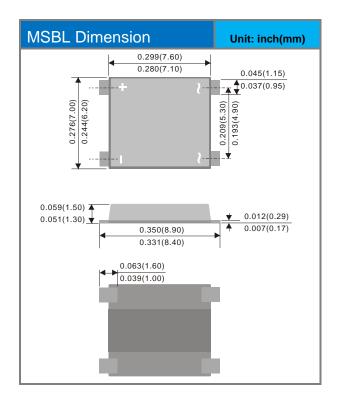


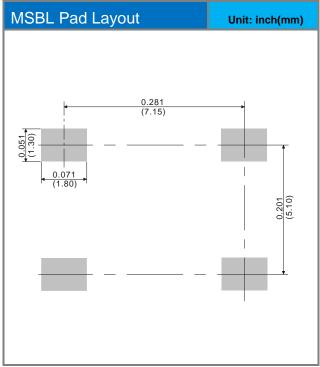


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
MSB2M_R2_00101	MSBL	3K pcs / 13" reel	MSB2M

Packaging Information & Mounting Pad Layout





September 6,2021 MSB2M-REV.00 Page 4



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