

# MB1F THRU MB10F MBF

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MBF

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1.Input pin(~) 2.Input pin(~)

3.Output Anode(+)

4.Output Cathode(-)

# 1A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER Reverse Voltage - 100 to 1000 V Forward Current - 1A

### **FEATURES**

High current capability
Low forward voltage drop
Glass Passivated Chip Junction
Low power loss, high efficiency
Lead free in comply with EU RoHS 2011/65/EU directives

### **MECHANICAL DATA**

Case: MBF
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 75mg /0.0026oz

#### **Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

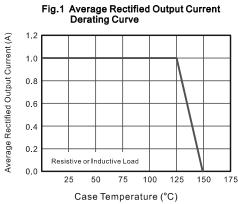
Parameter	Symbols	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	v
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	v
Average Rectified Output Current at Tc = 125 °C	I <sub>o</sub>	1					Α	
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I <sub>FSM</sub>	35			A			
ward Voltage per element at 1.0A V <sub>F</sub>		1	1.1			v		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I <sub>R</sub>	5 40			μA			
Typical Junction Capacitance (Note1)	Cj	13			pF			
Typical Thermal Resistance (Note2)	R <sub>8JA</sub> / R <sub>8JC</sub>	80/25			°C/W			
Operating and Storage Temperature Range	Tj, T <sub>stg</sub>	-55 ~ +150			°C			

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

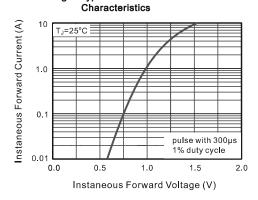
(2) Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.











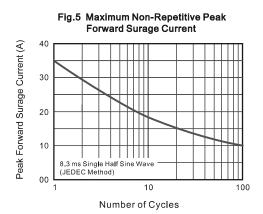


Fig.2 Typical Reverse Characteristics

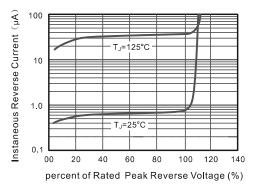
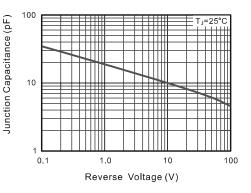
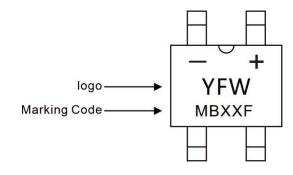


Fig.4 Typical Junction Capacitance





# **Marking Diagram**

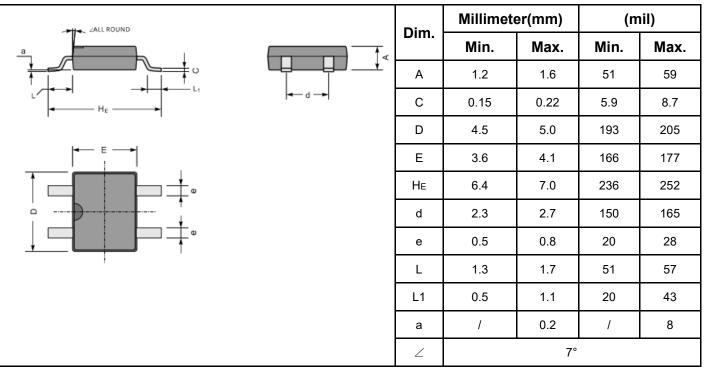


# Ordering information

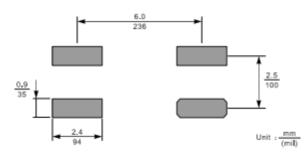
Package	Packing Description	Packing Quantity			
MBF	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton			

# **Package Dimensions**

MBF



# The recommended mounting pad size





# Disclaimer

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