



#### MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 400~1000 Volt CURRENT 1 Amper

#### **FEATURES**

- Ultra Thin Profile Package for Space Constrained Utilization
- Glass Passivated Chip Junciton
- Ideally Suited for Automatic Assembly
- Save Space On Printed Circuit Boards
- Low Forward Voltage Drop
- Lead free in compliance with EU RoHS 2011/65/EU directive

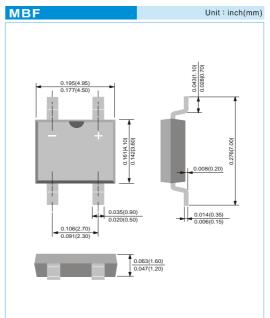
#### **MECHANICAL DATA**

• Case : MBF, Plastic

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

· Polarity: As Marked on case

• Approx weight: 0.00289 ounces, 0.0818 grams



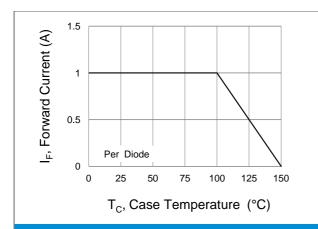
#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

PARAMETER		SYMBOL	MB4F-10	MB6F-10	MB8F-10	MB10F-10	UNIT
Marking			MB4F1	MB6F1	MB8F1	MB10F1	
Maximum Recurrent Peak Reverse Voltage		VRRM	400	600	800	1000	V
Maximum RMS Voltage		VRMS	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	400	600	800	1000	V
Maximum Average Rectified Forward Current		I F(AV)	1			А	
Peak Forward Surge Current : 8.3ms single half-sine-wave superimposed on rated load per diode		I FSM	30			А	
Maximum Forward Voltage at 1A		VF	1.1			V	
Maximum DC Reverse Current at TJ=25°C		l r	5			μΑ	
Typical Thermal Resistance per diode (	(Note 1)	Rejc	30			°C/W	
Operating Junction Temperature Range		TJ	-55 to +150		°C		
Storage Temperature Range		Тѕтс	-55 to +150			°C	

Note:1.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area







**Fig.1 Forward Current Derating Curve** 

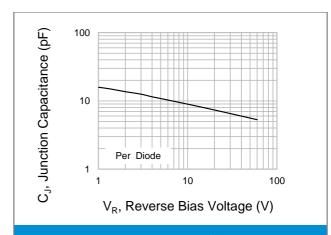
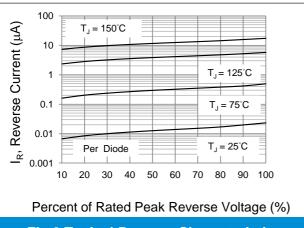
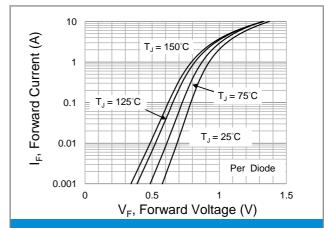


Fig.2 Typical Junction Capacitance



**Fig.3 Typical Reverse Characteristics** 

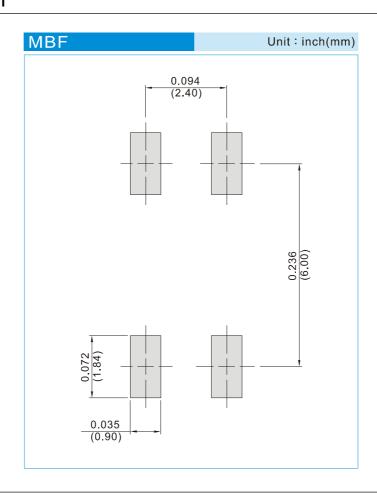


**Fig.4 Typical Forward Characteristics** 





### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

• Packing information

T/R - 5K per 13" plastic Reel





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