



MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

1 Amper

VOLTAGE 400~1000 Volt CURRENT

Recongnized File #E111753

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

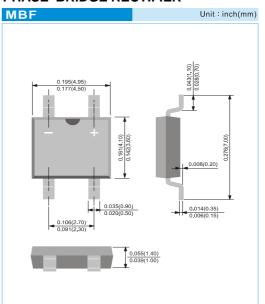
MECHANICAL DATA

· 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		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)		Α			
Peak Forward Surge Current : 0.5ms single square wave superimposed on rated load per diode	l FSM		А			
Peak Forward Surge Current : 1ms single square wave superimposed on rated load per diode	l FSM		А			
Peak Forward Surge Current: 8.3ms single half-sine-wave superimposed on rated load per diode	l FSM	30				А
Rating of fusing (t<8.3ms) (Note 1)	l ² t	l ² t 3.735				A^2s
Maximum Forward Voltage at 1A	VF	1.1				V
Maximum DC Reverse Current at T _J =25°C	l R	5				μA
Typical Thermal Resistance per diode (Note 2)	Rөлс	30				°C/W
Operating Junction Temperature Range	TJ	-55 to +150				°C
Storage Temperature Range	Тѕтс	-55 to +150				°C

Note:1.Non-repetitive, for t >1ms and < 8.3ms 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

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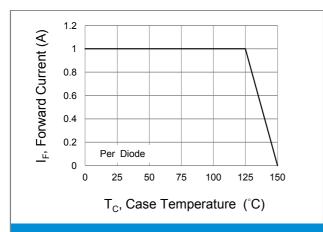


Fig.1 Forward Current Derating Curve

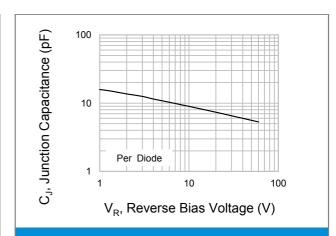


Fig.2 Typical Junction Capacitance

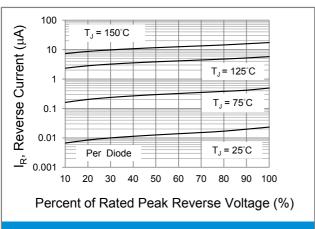


Fig.3 Typical Reverse Characteristics

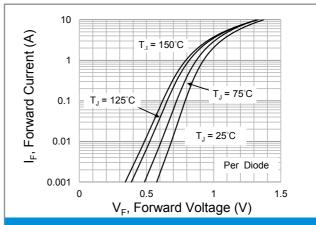
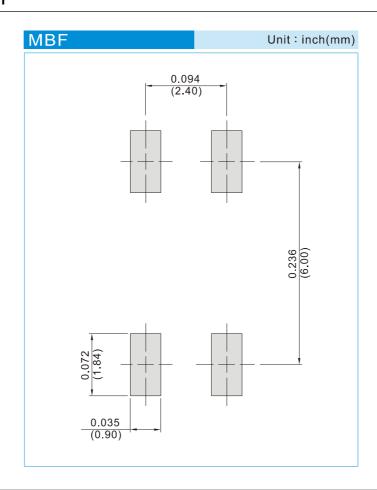


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

MB4F-10_R2_10001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	Х				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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