



Unit : inch(mm)

0.043(1.10)

0.014(0.35)

0.035(0.90)

.055(1.40)

0.106(2.70)

## MB4F-10 SERIES

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

MBF

VOLTAGE 400~1000 Volt CURRENT 1 Amper

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

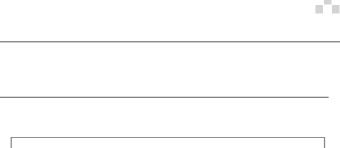
PARAMETER	SYMBOL	MB4F-10	MB6F-10	MB8F-10	MB10F-10	UNIT
Marking		MB4F1	MB6F1	MB8F1	MB10F1	
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	600	800	1000	V
Maximum RMS Voltage	Vrms	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	400	600	800	1000	V
Maximum Average Rectified Forward Current	I F(AV)	1				А
Peak Forward Surge Current : 0.5ms single square wave superimposed on rated load per diode	I FSM	96			А	
Peak Forward Surge Current : 1ms single square wave superimposed on rated load per diode	I FSM	65			А	
Peak Forward Surge Current : 8.3ms single half-sine-wave superimposed on rated load per diode	I FSM	30				А
Rating of fusing (t<8.3ms) (Note 1)	l <sup>2</sup> t	3.735				A <sup>2</sup> s
Maximum Forward Voltage at 1A	VF	1.1				V
Maximum DC Reverse Current at TJ=25°C	l r	5			μA	
Typical Thermal Resistance per diode (Note 2)	Rojc	30			°C/W	
Operating Junction Temperature Range	TJ	-55 to +150				°C
Storage Temperature Range	Тѕтс	-55 to +150				°C

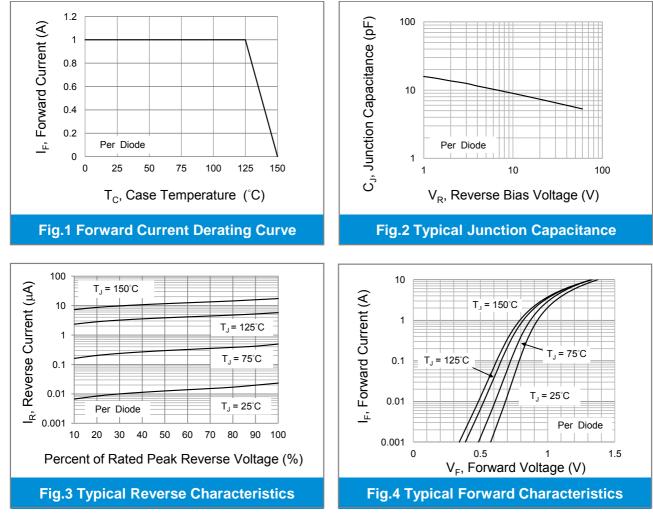
Note:1.Non-repetitive, for t >1ms and < 8.3ms

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



**MB4F-10 SERIES** 

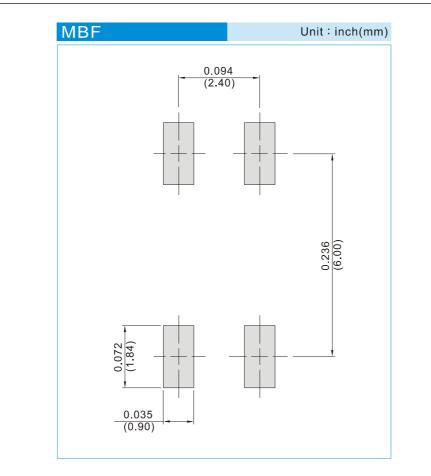






# **MB4F-10 SERIES**

#### MOUNTING PAD LAYOUT

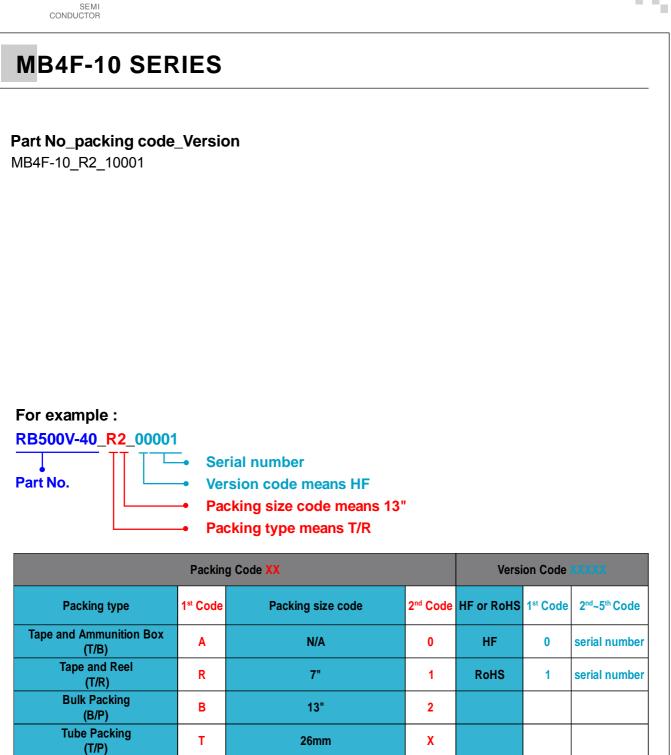


#### **ORDER INFORMATION**

Packing information

T/R - 5K per 13" plastic Reel





52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

Υ

U

D

Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

S

L

F





## **MB4F-10 SERIES**

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