



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

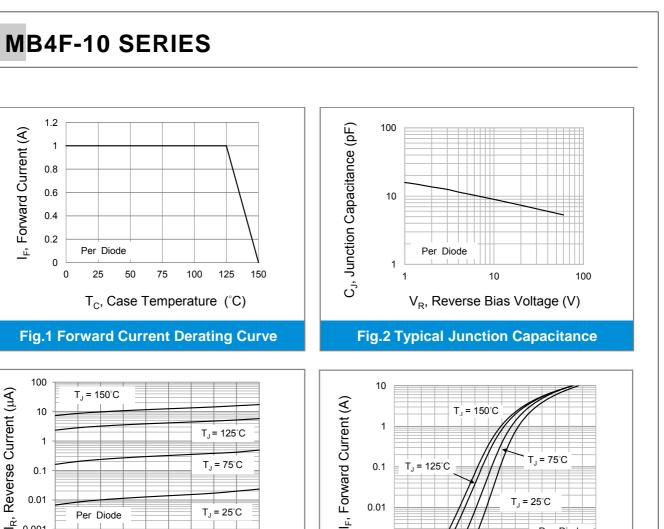
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 ² t	3.735				A ² 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 100cm² copper pad area





0.01

0.001 0

T_{.1} = 25°C

80 90 100

0.01

10

<u>–</u>^ŵ 0.001

Per Diode

20 30 40 50 60 70

Percent of Rated Peak Reverse Voltage (%)

Fig.3 Typical Reverse Characteristics

= 25°C

1

V_F, Forward Voltage (V)

0.5

Fig.4 Typical Forward Characteristics

Per Diode

1.5

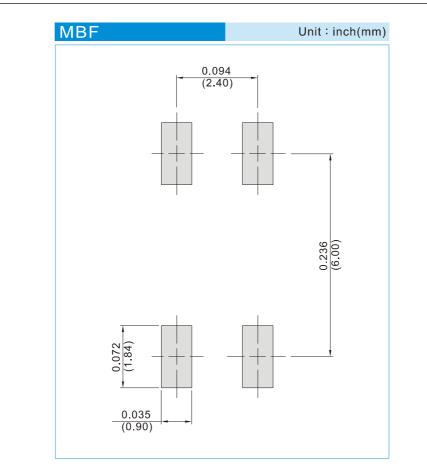




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MOUNTING PAD LAYOUT

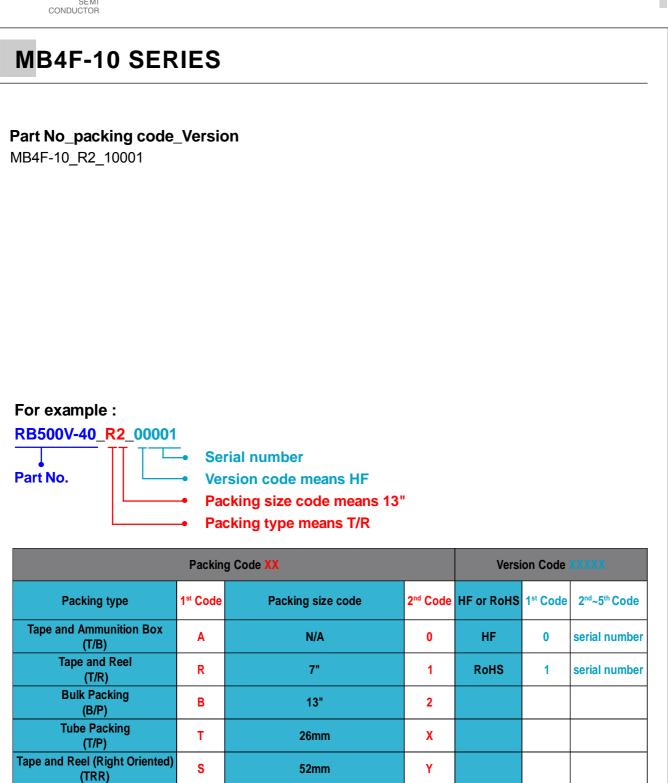


ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Tape and Reel (Left Oriented)

(TRL)

FORMING

L

F

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

U

D





MB4F-10 SERIES

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