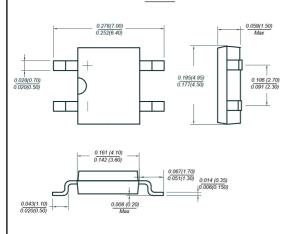


# MB2F THRU MB10F

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 0.5/0.8 Ampere

#### MBF



### FEATURES

- ◆ Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs., (2.3kg) tension
- Small size, simple installation
- High surge current capability
- Glass passivated chip junction
- Green compound(halogen&Sb<sub>2</sub>O<sub>3</sub> free)

#### **MECHANICAL DATA**

Case: Molded plastic body Terminals: Plated leads solderable per MIL-STD-750, Method 2026 Polarity: Polarity symbols marked on case Mounting Position: Any

Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load derate current by 20%.

	SYMBOLS	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS
Maximum repetitive peak reverse voltage	Vrrm	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	200	400	600	800	1000	V
Maximum average forward rectified current On glass-epoxy P.C.B. (Note1)	lf(AV)	0.6					
On aluminum substrate (Note2)	1.0					A	
Peak forward surge current,							
8.3ms single half sine-wave superimposed on	Іғѕм 30					A	
rated load							
Maximum instantaneous forward voltage drop per leg at 0.4A	Vf	1.0					V
Maximum DC reverse current Ta=25°C		5.0					uA
at rated DC blocking voltage Ta=125°C	IR 500					uA	
Typical junction capactiance per leg(Note3)	CJ	13					pF
Typical thermal resistance per leg	Rθja	88					°C/W
Operating temperature range	TJ	-55 to +150					°C
storage temperature range	Тѕтс	-55 to +150					°C

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

2.On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad 3.Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

## CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO., LTD.



## RATINGS AND CHARACTERISTIC CURVES MBF SERIES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT FOR

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

