



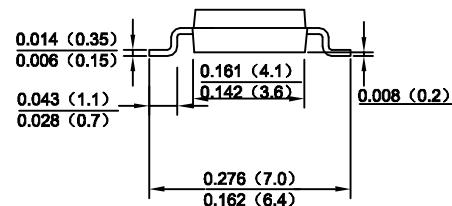
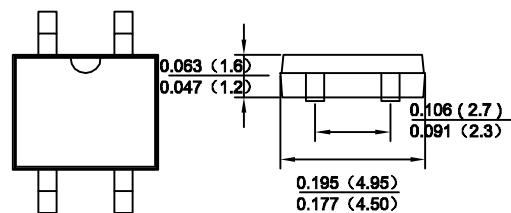
# MB05FN THRU MB10FN

SINGLE PHASE 0.5AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

## Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

## MBF



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	MB05FN	MB1FN	MB2FN	MB4FN	MB6FN	MB8FN	MB10FN	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
	V <sub>RWM</sub>								
	V <sub>DC</sub>								
RMS Reverse Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>A</sub> =40°C	I <sub>O</sub>	0.5							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	25							A
Forward Voltage per element @I <sub>F</sub> =0.5A	V <sub>FM</sub>	0.95							V
Peak Reverse Current @T <sub>A</sub> =25°C At Rated DC Blocking Voltage @T <sub>A</sub> =125°C	I <sub>R</sub>	5.0 500							uA
Typical Junction Capacitance per leg (Note1)	C <sub>J</sub>	13							pF
Typical Thermal Resistance per leg	R <sub>θJA</sub>	60							°C/W
	R <sub>θJL</sub>	16							
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>TSG</sub>	-55 to +150							°C

Note:1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

