

MB2F THRU MB10F

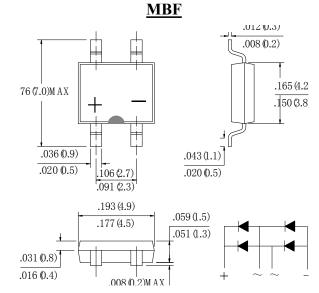
SINGLE PHASE 1.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURE

- . Glass passivated junction.
- . Ideal for printed circuit board.
- . Reliable low cost construction utilizing molded plastic technique.
- . High surge current capability.
- . High temperature soldering guaranteed: 260° C/10 seconds at terminals.

MECHANICAL DATA

- . Case Material: "Green" Molding compound, UL flammability classification rating 94V-0,
- "Free halogen"
- . Moisture sensitivity level:level 2a,per J-STD-020
- . Polarity: Polarity as marked on the body
- . Weight: 0.105g (approximately)



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%

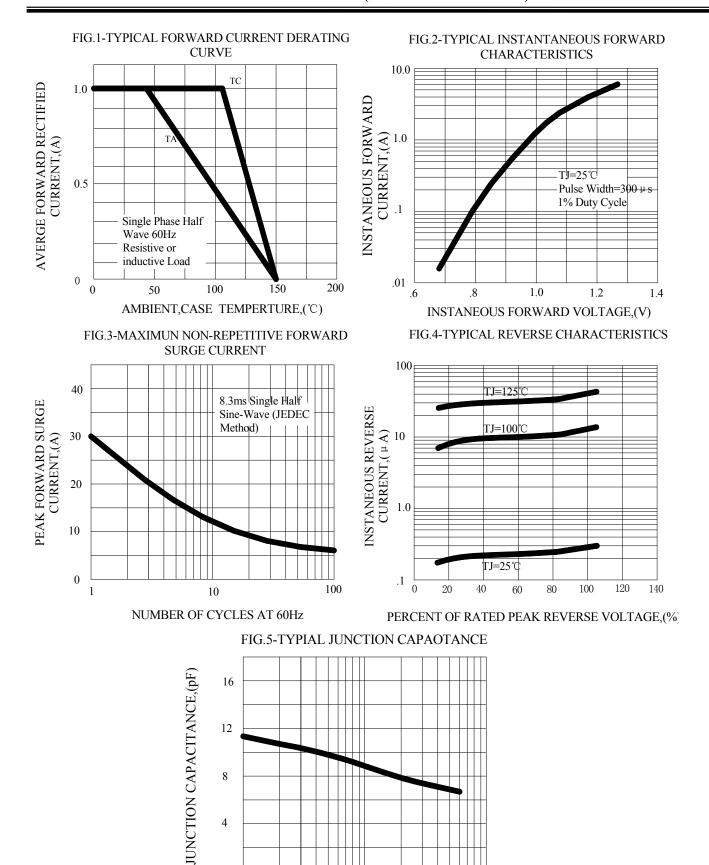
Type Number	SYM BOL	MB2F	MB4F	MB6F	MB8F	MB10F	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	200	400	600	800	1000	V
Maximum Average Forward rectified Current @ T _A =40 °C	I _{F(AV)}	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{ m FSM}$	30					A
	$V_{ m F}$	1.1 0.95					V
Maximum DC Reverse Current @T _J =25°C at rated DC blocking voltage @T _J =125°C	$I_{ m R}$	5.0 100.0					μΑ
I ² t Rating for Fusing (t < 8.3ms)	I ² t	3.74					A ² Sec
Typical Junction Capacitance Per Leg (Note1)	$C_{ m J}$	13					pF
Typical Thermal Resistance (Note2)	$R_{ m JC}$ $R_{ m JA}$	25 85					°C /W
Storage Temperature	T _{STG}	-55 to +150					°C
Operating Junction Temperature	$T_{ m J}$	-55 to +150					°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

 Unit mounted on glass-epoxy substrate with 1oz/ft2 10x10 mm copper pad per pin with heatsink

RATING AND CHARACTERISTIC CURVES (MB2F THRU MB10F)



REVERCE VOLTAGE,(V)