



## 1A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### FEATURES:

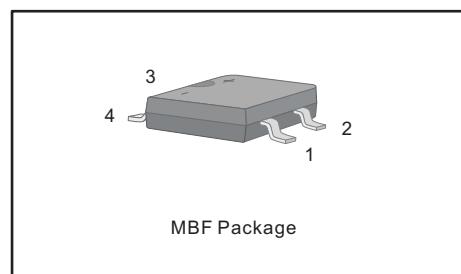
- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 1 A
- High Surge Current Capability
- Designed for Surface Mount Application

### PINNING

PIN	DESCRIPTION
1	Input Pin ( ~ )
2	Input Pin ( ~ )
3	Output Anode ( + )
4	Output Cathode ( - )

### MECHANICAL DATA

- Case: MBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 75mg 0.0026oz



### Maximum Ratings and Electrical characteristics

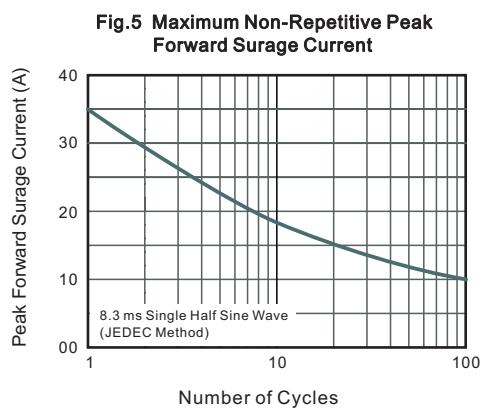
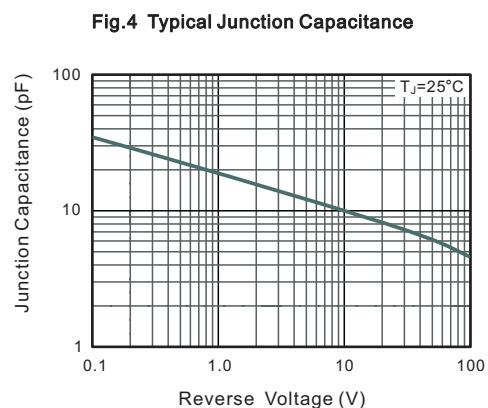
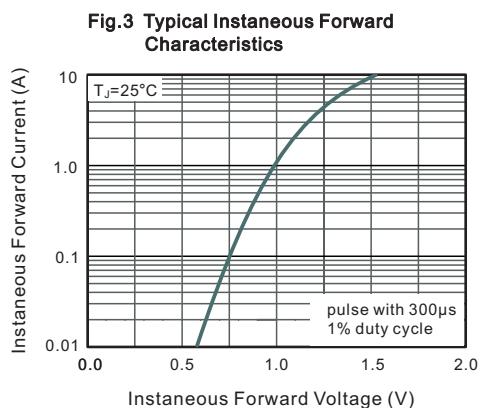
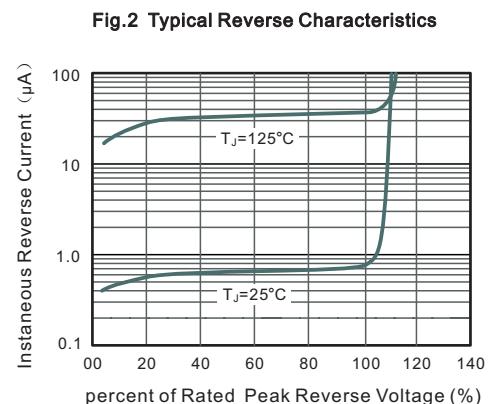
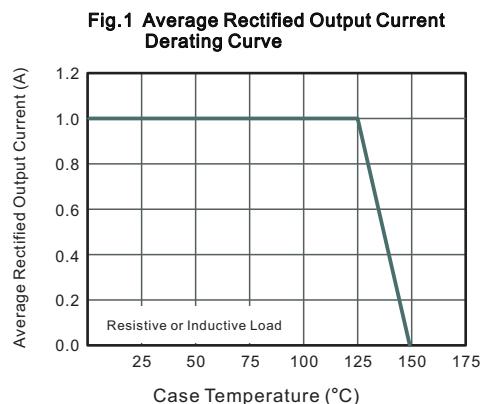
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	MB1F-10	MB2F-10	MB4F-10	MB6F-10	MB8F-10	MB10F-10	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_c = 125^\circ C$	$I_o$	1.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	35						A
Maximum Forward Voltage at 1.0 A	$V_F$	1.1						V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ @ $T_A = 125^\circ C$	$I_R$	5 40						$\mu A$
Typical Junction Capacitance ( Note1 )	$C_j$	13						pF
Typical Thermal Resistance ( Note2 )	$R_{\theta JA}$ $R_{\theta JC}$	80 25						°C/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150						°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4×1.5"×1.5" ( 3.81×3.81 cm ) copper pad.

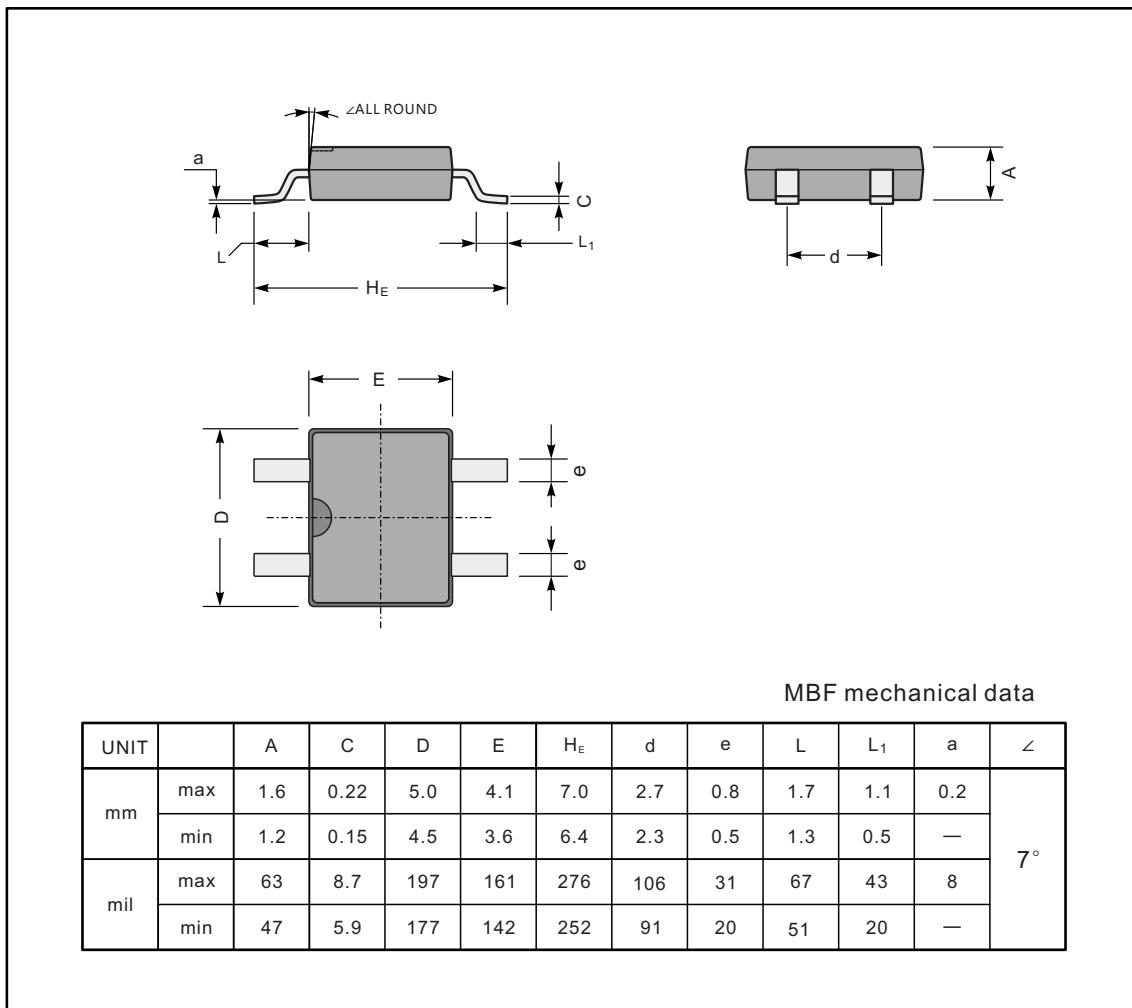




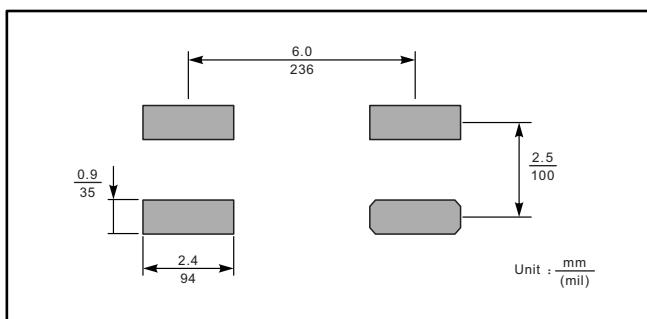
## PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

MBF



### The recommended mounting pad size



### Marking

Type number	Marking code
MB1F-10	10M1
MB2F-10	10M2
MB4F-10	10M4
MB6F-10	10M6
MB8F-10	10M8
MB10F-10	10M10

A small diagram of the MBF package showing the marking code "10Mxx" printed on it.