

3A SURFACE MOUNT SCHOTTKY BRIDGE

FEATURES:

- Reverse Voltage - 40 to 200 V
- Forward Current - 3 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



MBF Package

Maximum Ratings and Electrical characteristics

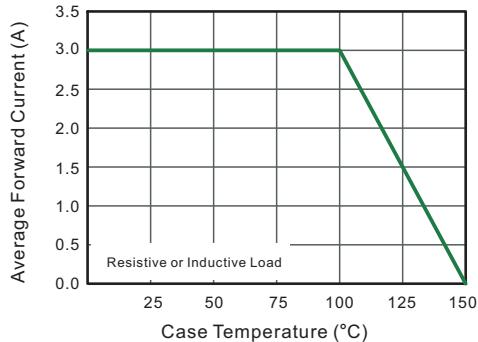
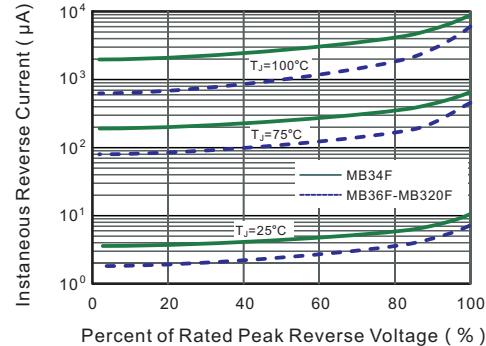
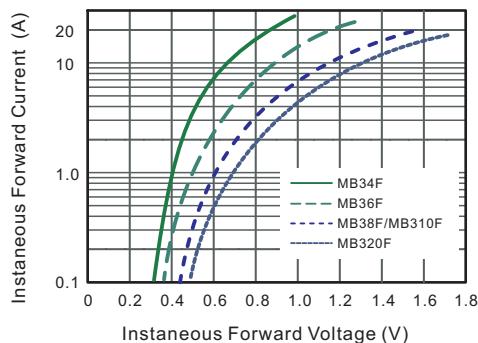
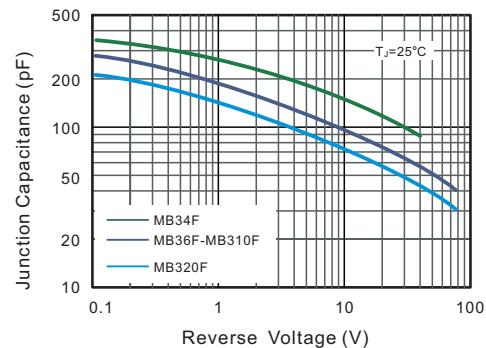
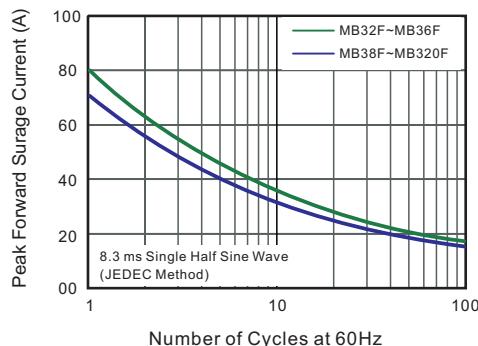
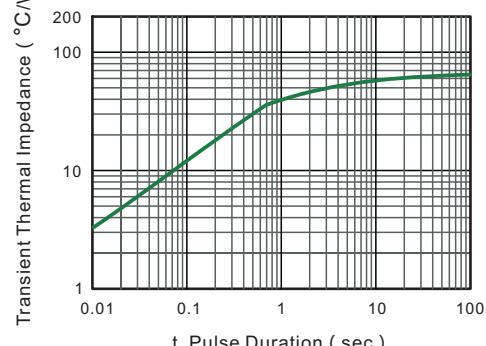
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	MB34F	MB36F	MB38F	MB310F	MB320F	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	60	80	100	200	V
Maximum RMS voltage	V _{RMS}	28	42	56	70	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	200	V
Maximum Average Forward Rectified Current at T _c = 100 °C	I _{F(AV)}			3.0			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}		80		70		A
Max Instantaneous Forward Voltage at 3 A	V _F	0.55	0.70		0.85	0.95	V
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°C	I _R	0.5 10		0.3 5			mA
Typical Junction Capacitance ¹⁾	C _j	220		160	100		pF
Typical Thermal Resistance ²⁾	R _{θJA}			65			°C/W
Operating Junction Temperature Range	T _j			-55 ~ +150			°C
Storage Temperature Range	T _{stg}			-55 ~ +150			°C

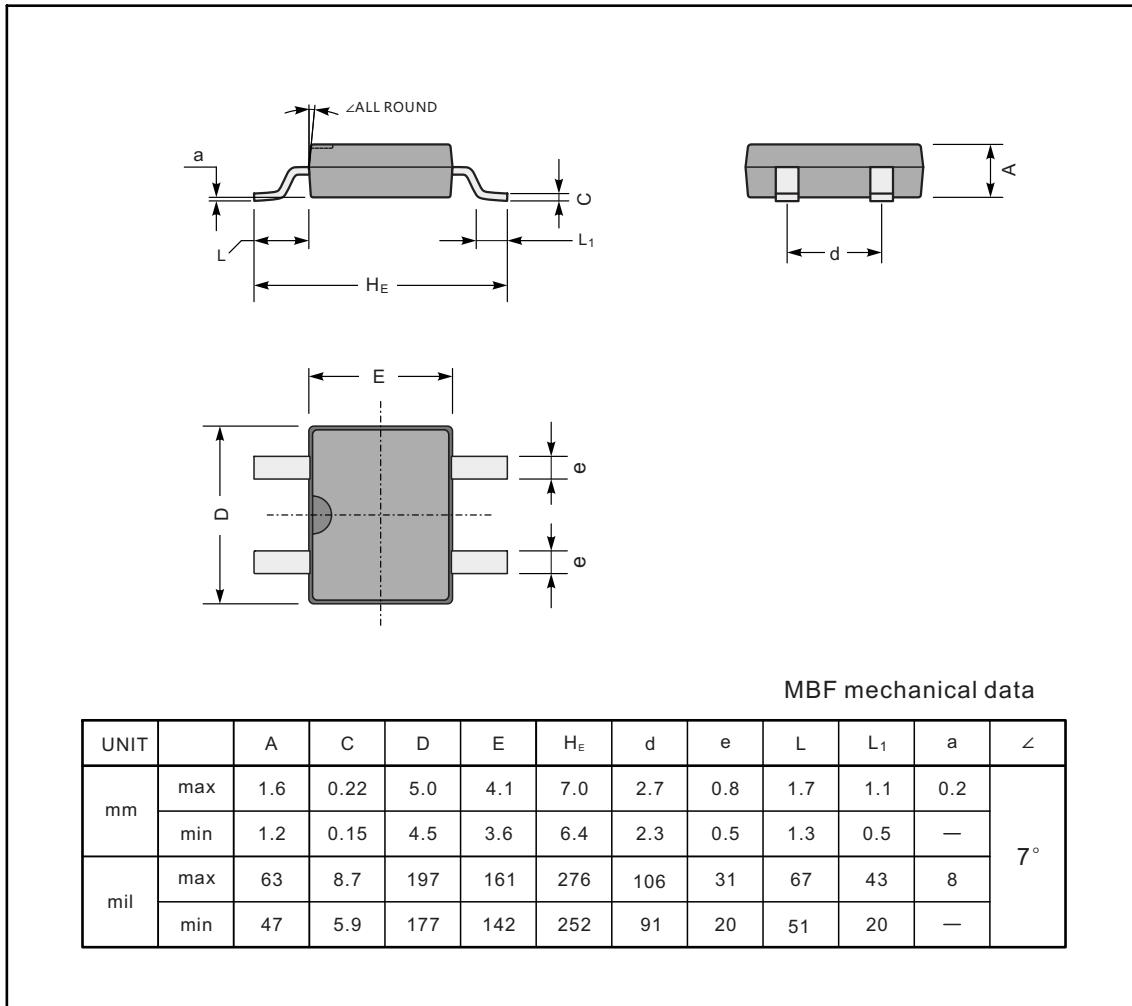
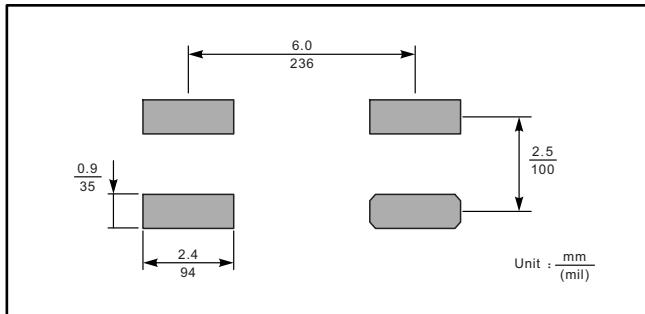
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

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

Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics

Fig.3 Typical Forward Characteristic

Fig.4 Typical Junction Capacitance

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

Fig.6-Typical Transient Thermal Impedance


PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

MBF

The recommended mounting pad size

Marking

Type number	Marking code
MB34F	MB34F
MB36F	MB36F
MB38F	MB38F
MB310F	MB310F
MB320F	MB320F

