



3A SURFACE MOUNT SCHOTTKY BRIDGE

**FEATURES:**

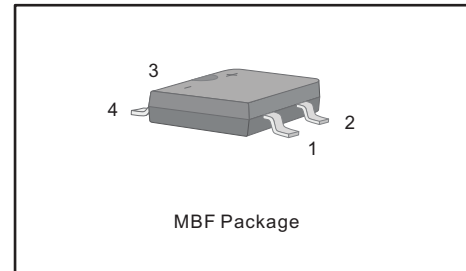
- Reverse Voltage - 40 to 200 V
- Forward Current - 3 A
- High Surge Current Capability
- Designed for Surface Mount Application

**MECHANICAL DATA**

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

**PINNING**

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



**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 $T_c = 100\text{ }^\circ\text{C}$                            | $I_{F(AV)}$     | 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 $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$ | $I_R$           | 0.5        | 0.3   |       |        | 5      | mA                 |
|   |                 | 10         |       |       |        |        |                    |
| Typical Junction Capacitance <sup>1)</sup>  | $C_j$           | 220        | 160   |       |        | 100    | pF                 |
| Typical Thermal Resistance <sup>2)</sup>  | $R_{\theta JA}$ | 65         |       |       |        |        | $^\circ\text{C/W}$ |
| Operating Junction Temperature Range  | $T_j$           | -55 ~ +150 |       |       |        |        | $^\circ\text{C}$   |
| Storage Temperature Range   | $T_{stg}$       | -55 ~ +150 |       |       |        |        | $^\circ\text{C}$   |

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

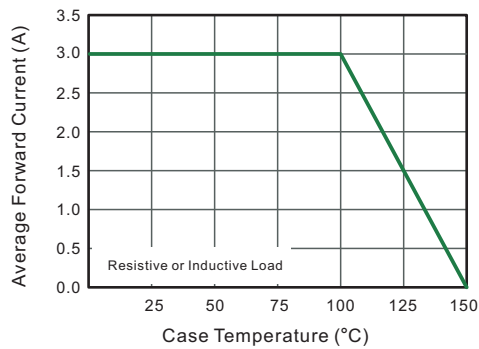


Fig.2 Typical Reverse Characteristics

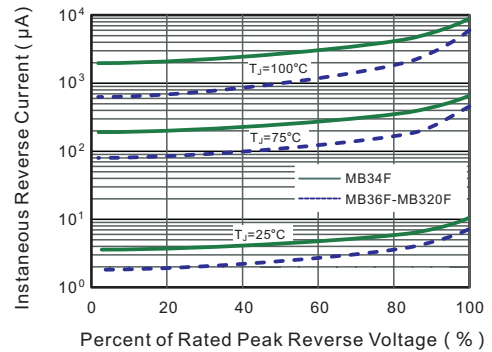


Fig.3 Typical Forward Characteristic

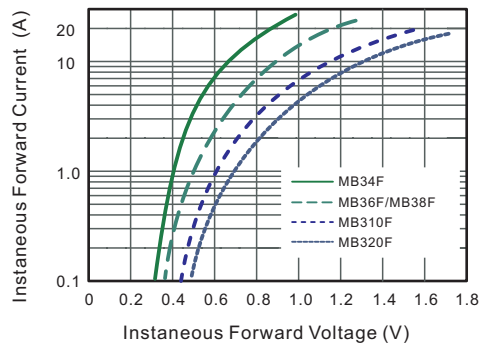


Fig.4 Typical Junction Capacitance

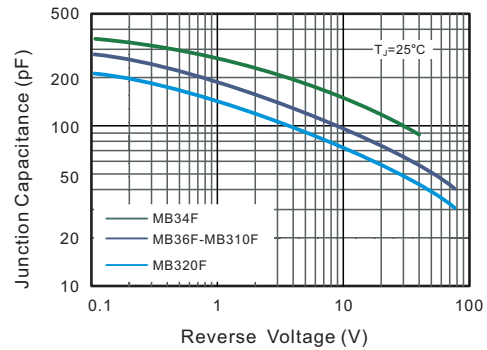


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

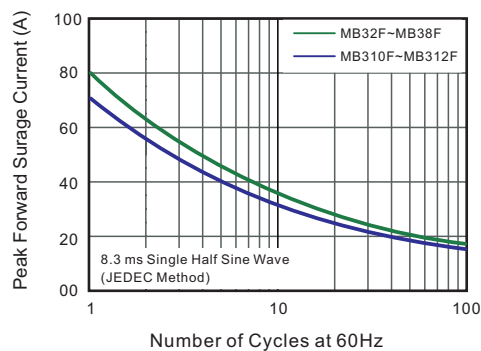
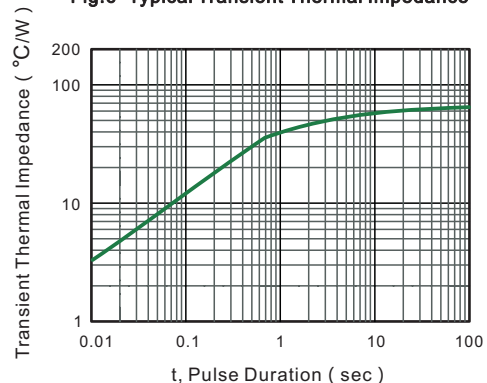


Fig.6 Typical Transient Thermal Impedance

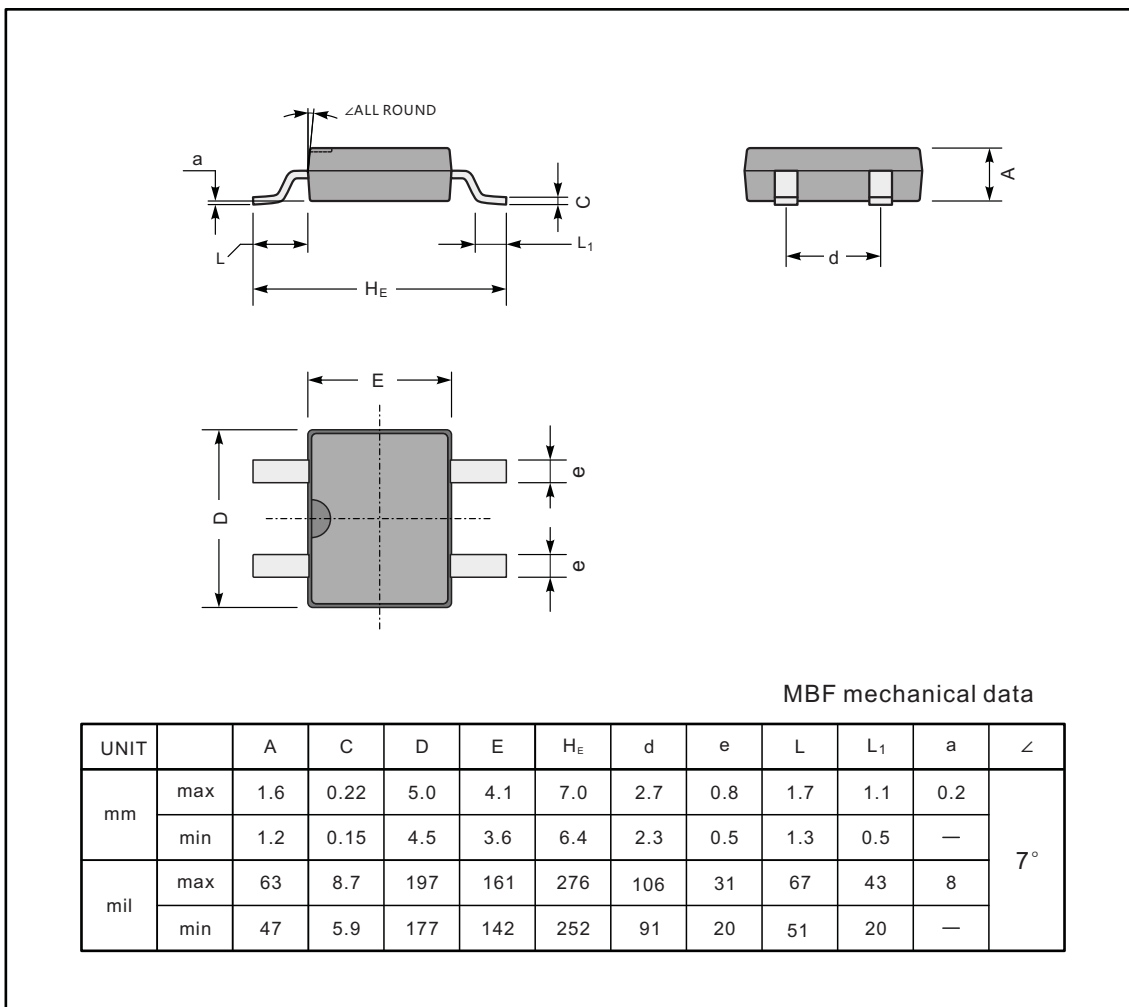




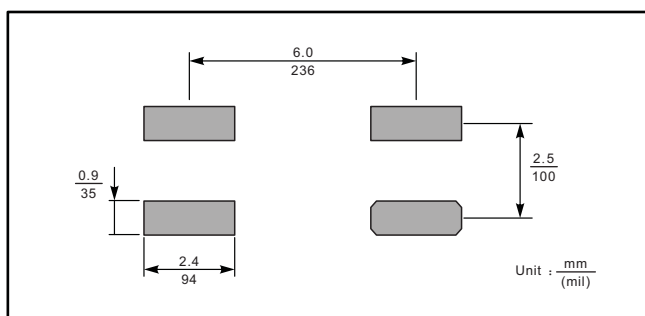
PACKAGE OUTLINE

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       |

单击下面可查看定价，库存，交付和生命周期等信息

[>>JINGDAO\(晶导微\)](#)