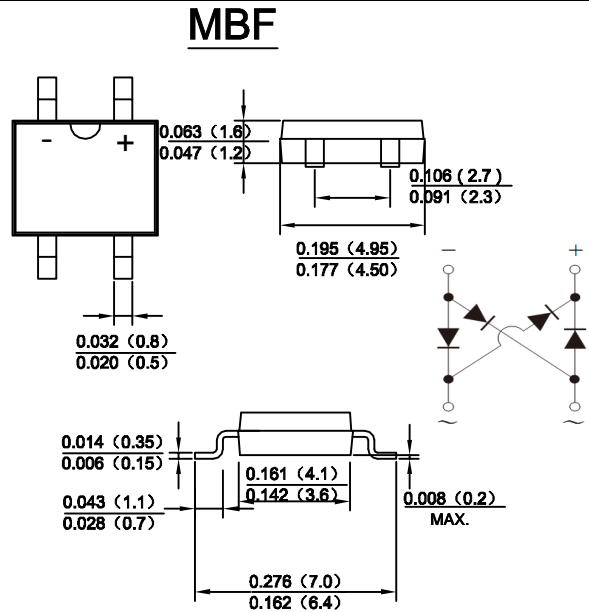


Features

- 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

Mechanical Data

- Case: MB-F, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

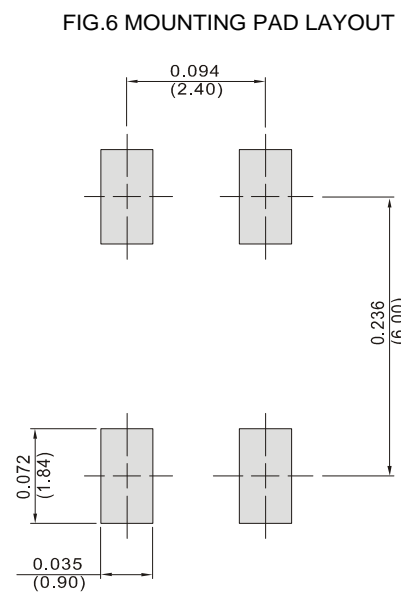
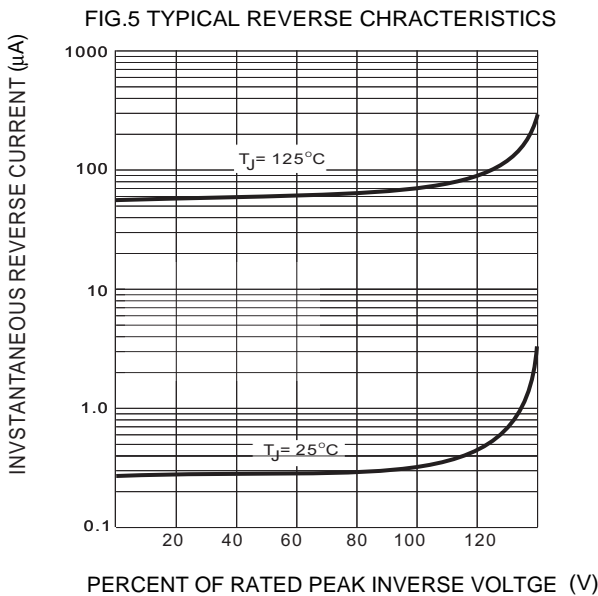
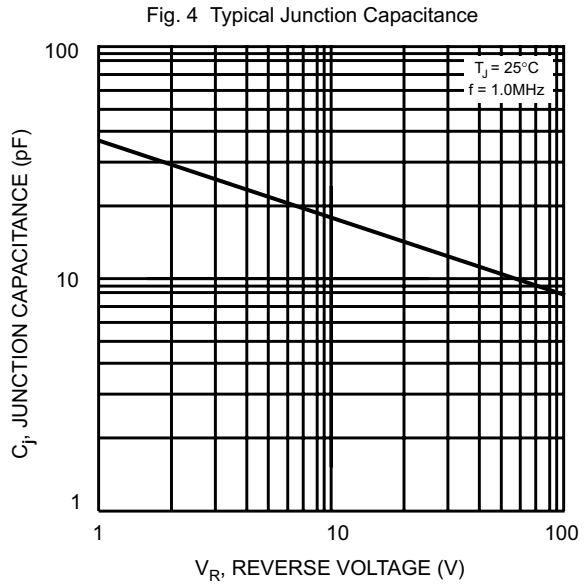
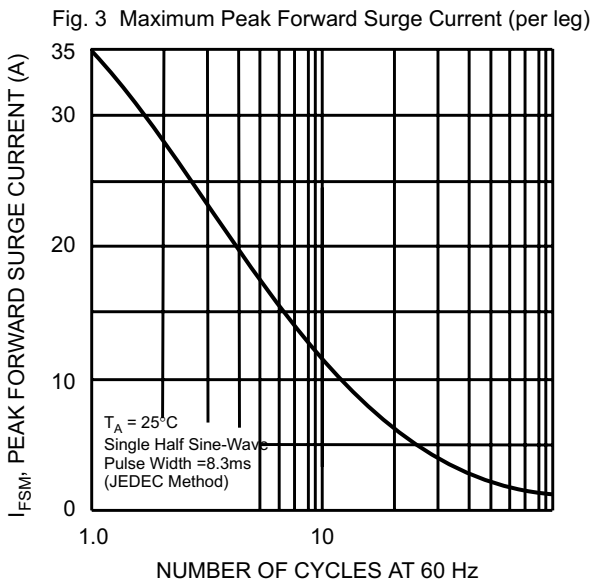
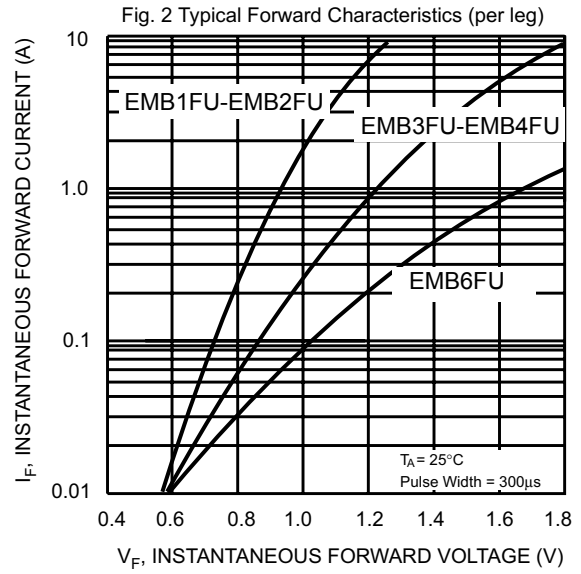
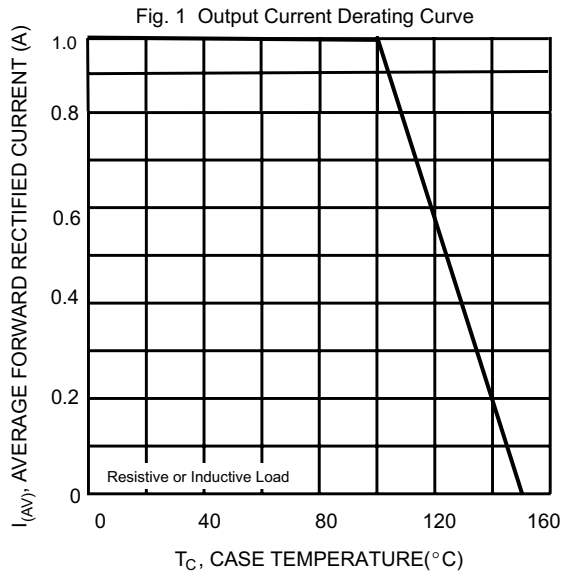
Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| TYPE NUMBER | SYMBOL | EMB1FU | EMB2FU | EMB3FU | EMB4FU | EMB6FU | UNITS | |
|---|-----------------|------------|--------|--------|--------|--------|-------|----------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | | | | | | | |
| Working Peak Reverse Voltage | V_{RWM} | 100 | 200 | 300 | 400 | 600 | V | |
| DC Blocking Voltage | V_{DC} | | | | | | | |
| RMS Reverse Voltage | V_{RMS} | 70 | 140 | 210 | 280 | 420 | V | |
| Maximum average forward rectified current @ $T_C=100^\circ\text{C}$ | $I_F(AV)$ | 1.0 | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 35 | | | | | | A |
| I^2t Rating for Fusing ($t < 8.3\text{ms}$) | I^2t | 5.083 | | | | | | A^2s |
| Forward Voltage per element @ $I_F=1.0\text{A}$ | V_{FM} | 0.95 | | 1.25 | | 1.7 | V | |
| Peak Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$ | I_R | 5.0 200 | | | | | | μA |
| Maximum reverse recovery time (Note 1) | T_{RR} | 35 | | | | | | nS |
| Typical Junction Capacitance per leg | C_J | 25 | | | | | | pF |
| Typical Thermal Resistance per leg (Note 2) | $R_{\theta JA}$ | 60 | | | | | | $^\circ\text{C/W}$ |
| | $R_{\theta JL}$ | 16 | | | | | | |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55to+150 | | | | | | $^\circ\text{C}$ |

Note:1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with $0.5 \times 0.5'' (13 \times 13\text{mm})$ copper pads.



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