

FMB05S THRU FMB10S

0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER



FEATURES

- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: Symbol molded on body
- * Mounting position: Any
- * Weight: 0.12 grams

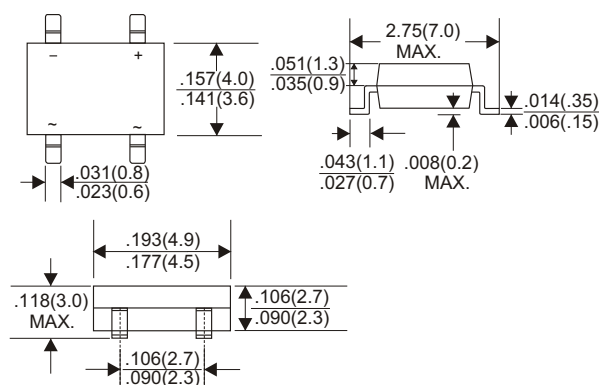
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

0.8 Ampere

MBS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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 | FMB05S | FMB1S | FMB2S | FMB4S | FMB6S | FMB8S | FMB10S | UNIT |
|---|------------|-------|-------|-------|-------|-------|--------|------|
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at Ta=25°C | 0.8 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 30 | | | | | | | A |
| Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C. | 1.3 | | | | | | | V |
| Maximum DC Reverse Current Ta=25°C | 5.0 | | | | | | | μA |
| at Rated DC Blocking Voltage Ta=100°C | 200 | | | | | | | μA |
| Maximum Reverse Recovery Time (Note 1) | 500 | | | | | | | TRR |
| Typical Junction Capacitance (Note 2) | 12 | | | | | | | pF |
| Typical Thermal Resistance R _{JA} (Note 3) | 80 | | | | | | | °C/W |
| Operating and Storage Temperature Range T _J , T _{STG} | -65 — +150 | | | | | | | °C |

NOTES:

- Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- Thermal Resistance from Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (FMB05S THRU FMB10S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

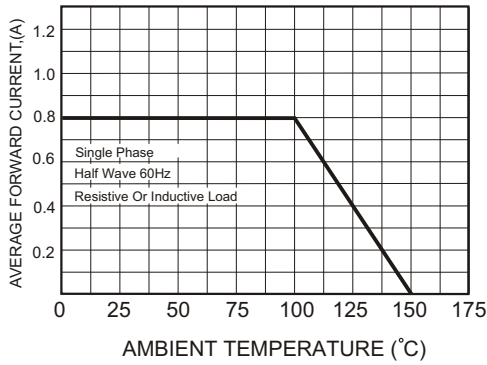


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

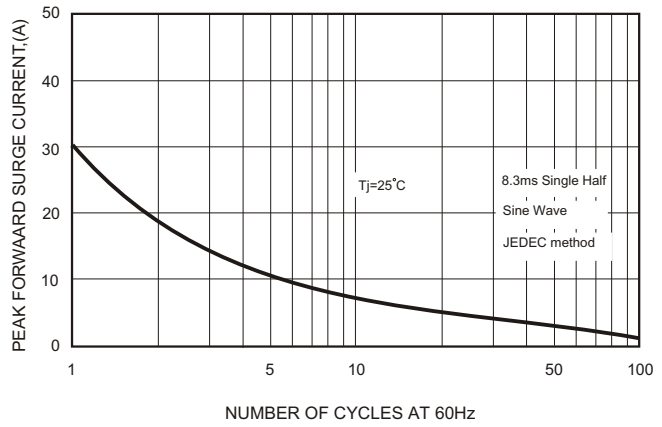


FIG.3-TYPICAL FORWARD CHARACTERISTICS

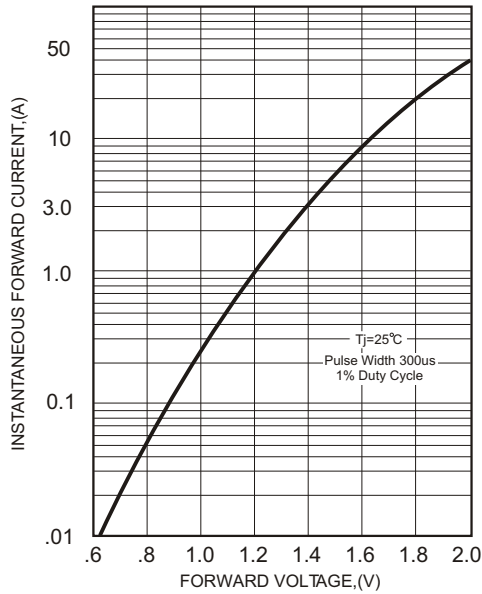


FIG.4-TYPICAL REVERSE CHARACTERISTICS

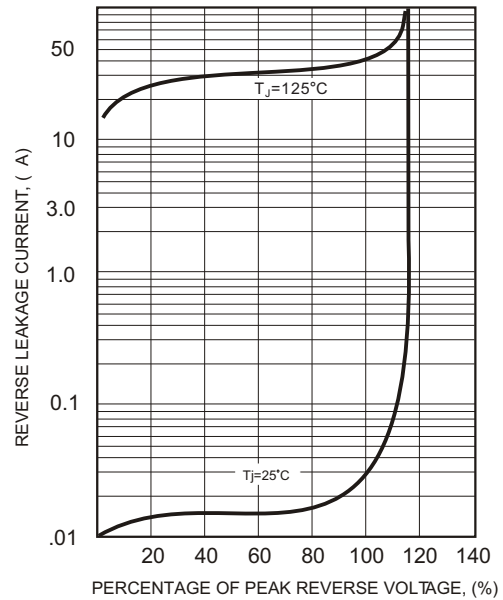


FIG.5-TYPICAL JUNCTION CAPACITANCE

