

### GLASS PASSIVATED FAST RECOVERY BRIDGE RECTIFIERS

Voltage Range - 200 to 1000 Volts    Current - 0.5/0.8 Ampere

#### Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C/10 second at 5 lbs., (2.3kg) tension
- Small size, simple installation
- Leads solderable per MIL-STD-202, Method 208
- High surge current capability
- Glass passivated chip junction
- Glass compound (halogen&Sb<sub>2</sub>O<sub>3</sub> free)

#### Mechanical Data

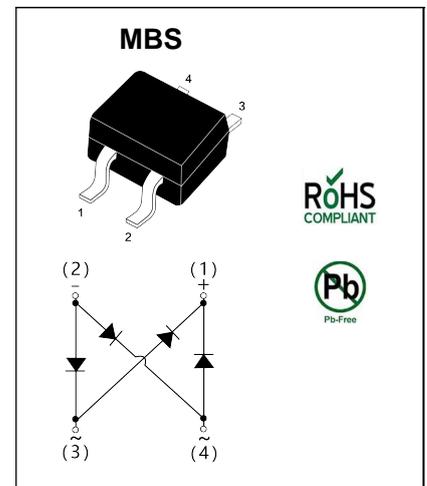
- Case: Molded plastic body
- Terminals: Plated lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any

#### Specification

#### Maximum Rating And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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



|   | SYMBOLS            | RMB2S       | RMB4S | RMB6S | RMB8S | RMB10S | UNITS    |
|---|--------------------|-------------|-------|-------|-------|--------|----------|
| Maximum repetitive peak reverse voltage   | V <sub>RRM</sub>   | 200         | 400   | 600   | 800   | 1000   | V        |
| Maximum RMS voltage   | V <sub>RMS</sub>   | 140         | 280   | 420   | 560   | 700    | V        |
| Maximum DC blocking voltage   | V <sub>DC</sub>    | 200         | 400   | 600   | 800   | 1000   | V        |
| Maximum average forward rectified current<br>On glass-epoxy P.C.B.(Note1)<br>On aluminum substrate(Note2)   | I <sub>F(AV)</sub> | 0.5<br>0.8  |       |       |       |        | A        |
| Peak forward surge current,<br>8.3ms single half sine-wave superimposed on<br>rated load                    | I <sub>FSM</sub>   | 30          |       |       |       |        | A        |
| Maximum instantaneous forward voltage drop<br>per leg at 0.4A   | V <sub>F</sub>     | 1.3         |       |       |       |        | V        |
| Maximum DC reverse current    T <sub>A</sub> =25°C<br>at rated DC blocking voltage    T <sub>A</sub> =125°C | I <sub>R</sub>     | 5.0<br>500  |       |       |       |        | uA<br>uA |
| Typical thermal resistance(NOTE 3)  | R(θ) <sub>JL</sub> | 28          |       |       |       |        | °C/W     |
|   | R(θ) <sub>JA</sub> | 85          |       |       |       |        |          |
| Maximum reverse recovery time    (NOTE 4)   | t <sub>rr</sub>    | 150         |       | 250   |       | 500    | ns       |
| Operating temperature range   | T <sub>J</sub>     | -55 to +150 |       |       |       |        | °C       |
| storage temperature range   | T <sub>STG</sub>   | -55 to +150 |       |       |       |        | °C       |

NOTES:1. On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads.  
2. On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05x0.05"(1.3x1.3mm) solder pad.  
3. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.  
4. Reverse recovery condition I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A.

### Ratings and characteristic curves RMB2S thru RMB10S

FIG.1 FORWARD DERATING CURVE

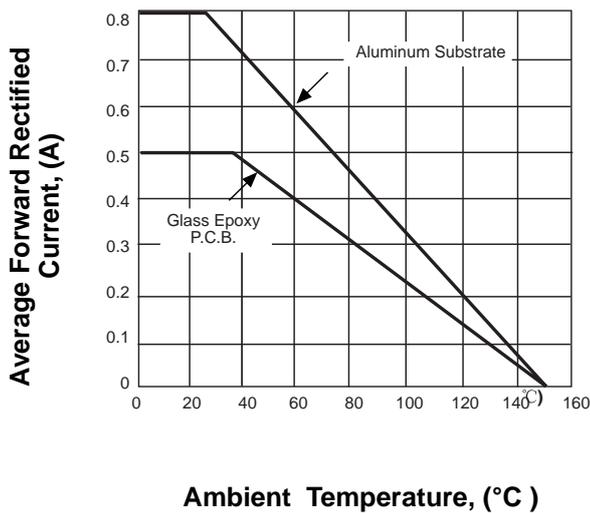


FIG.2 PEAK FORWARD SURGE CURRENT

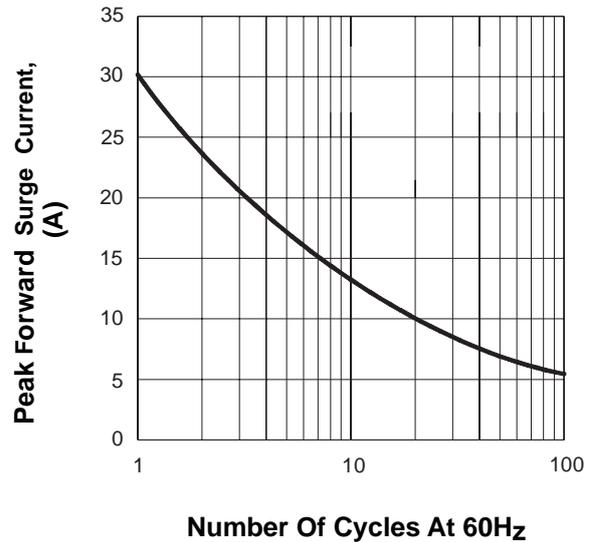


FIG.3 TYPICAL FORWARD CHARACTERISTICS

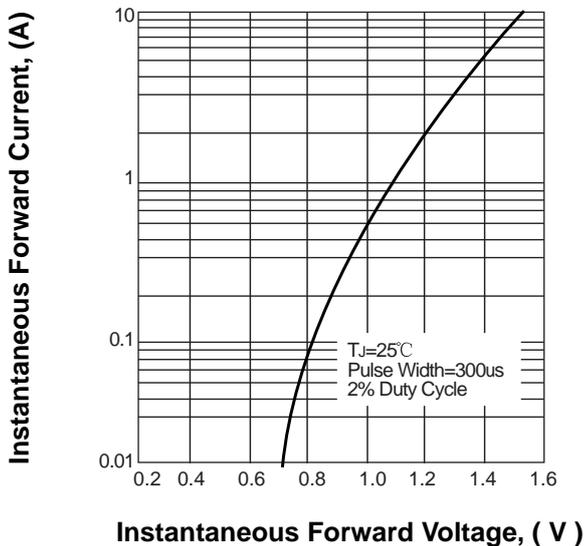
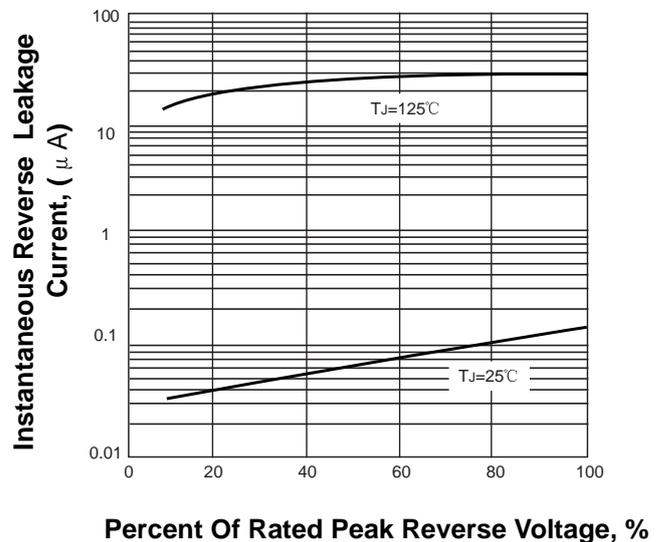
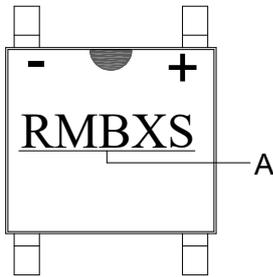


FIG.4 TYPICAL REVERSE CHARACTERISTICS

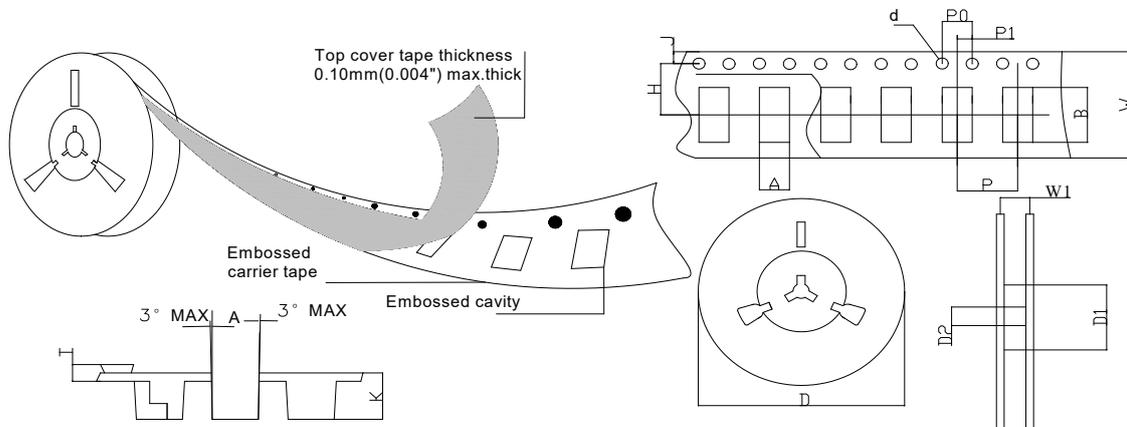


### 1、Marking



| SYMBOL | Explanation  |
|--------|--------------|
| A      | Product Name |

### 2、Packaging



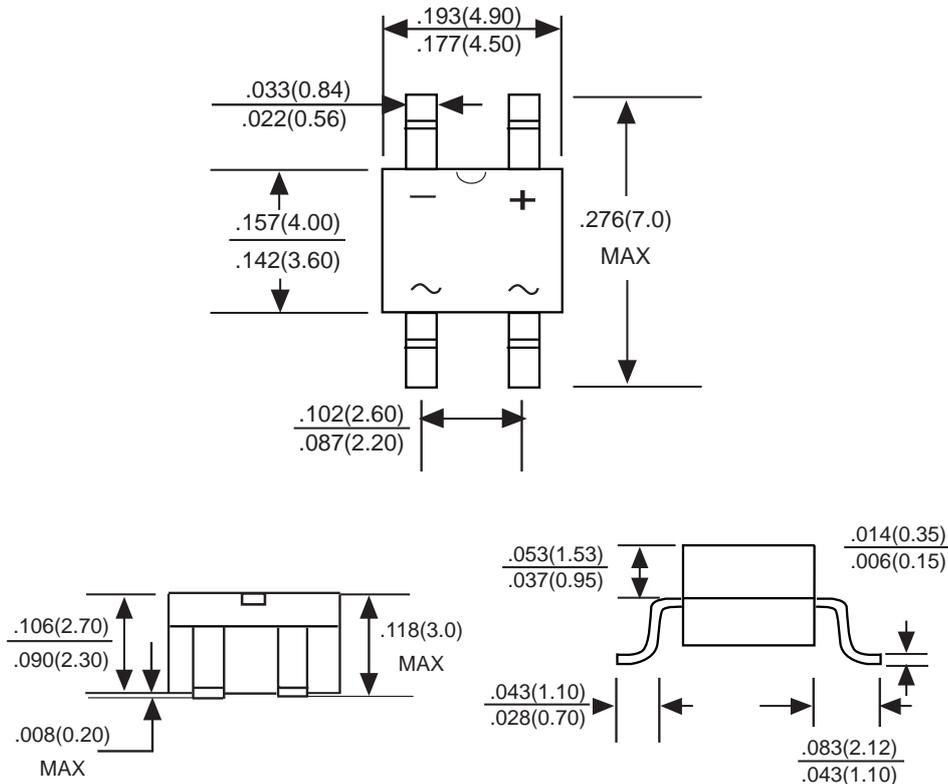
| SPECIFICATIONS<br>mm(inch) |            | PACKAGE         | SPECIFICATIONS<br>mm(inch) |            | PACKAGE        |
|----------------------------|------------|-----------------|----------------------------|------------|----------------|
| ITEM                       | SYM<br>BOL | MBS             | ITEM                       | SYM<br>BOL | MBS            |
| Carrier width              | A          | 5.15(0.203)Max  | Carrier depth              | K          | 2.88(0.113)Typ |
| Carrier length             | B          | 7.25(0.285)Max  | Punch hole pitch           | P          | 8.00(0.315)Typ |
| Sprocket hole              | d          | ø1.55(0.061)Typ | Sprocket hole pitch        | P0         | 4.00(0.157)Typ |
| Reel outer diameter        | D          | 330.0(13.0)Typ  | Embossment center          | P1         | 2.00(0.079)Typ |
| Reel inner diameter        | D1         | 50.0(2.913)Min  | Overall tape thickness     | T          | 0.30(0.012)Typ |
| Feed hole diameter         | D2         | 13.0(0.512)Typ  | Tape width                 | W          | 12.0(0.472)Typ |
| Sprocket hole position     | J          | 1.75(0.069)Typ  | Reel width                 | W1         | 12.4(0.488)Min |
| Punch hole position        | H          | 5.50(0.217)Typ  |                            |            |                |

### 3、Ordering Information

| Part Number | Compliance | Case | Packaging        |
|-------------|------------|------|------------------|
| RMBXS       | Standard   | MBS  | 3000/Tape & Reel |

### Dimension

#### MBS



Dimensions in inches and (millimeters)

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