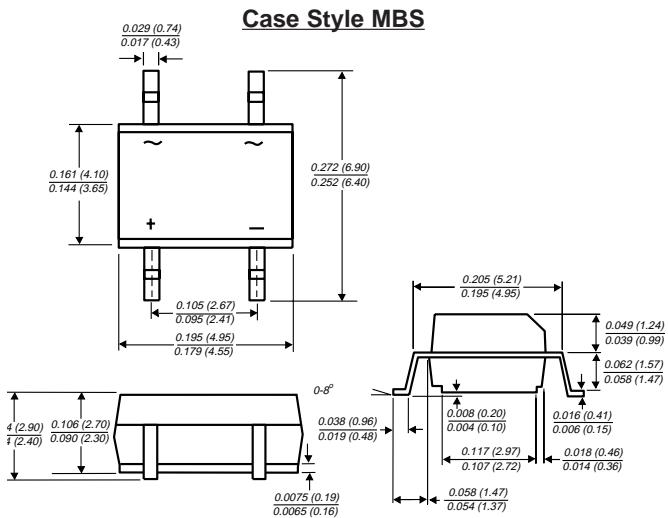


RMB2S THRU RMB4S

MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT FAST RECOVERY BRIDGE RECTIFIER

Reverse Voltage - 200 to 400 Volts Forward Current - 0.5 Ampere



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ This series is UL recognized under Component Index, file number E54214
- ◆ Glass passivated chip junctions
- ◆ High surge overload rating: 35A peak
- ◆ Saves space on printed circuit boards
- ◆ Fast recovery, low loss switching
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (2.3kg) tension



MECHANICAL DATA

Case: Molded plastic body over passivated junctions

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on body

Mounting Position: Any

Weight: 0.0078 ounce, 0.22 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| | <i>SYMBOLS</i> | <i>RMB2S</i> | <i>RMB4S</i> | <i>UNITS</i> |
|---|---------------------------------------|--|----------------------|--------------------|
| Device marking code | | R2 | R4 | |
| Maximum repetitive peak reverse voltage | V _{RRM} | 200 | 400 | Volts |
| Maximum RMS voltage | V _{RMS} | 140 | 280 | Volts |
| Maximum DC blocking voltage | V _{DC} | 200 | 400 | Volts |
| Maximum average forward output rectified current at TA=30°C - on glass-epoxy P.C.B. (NOTE 1) - on aluminum substrate (NOTE 2) | I(AV) | 0.5 0.8 | | Amp |
| Peak forward surge current 8.3msec single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 30.0 | | Amps |
| Rating for fusing (<8.3ms) | I ² t | 5.0 | | A ² sec |
| Maximum instantaneous forward voltage drop per leg at 0.4A | V _F | 1.25 | | Volts |
| Maximum DC reverse current at rated DC blocking voltage per leg | I _R TA=25°C TA=125°C | 5.0 100 | | |
| Maximum reverse recovery time (NOTE 3) | t _{rr} | 150 | | ns |
| Typical junction capacitance per leg (NOTE 4) | C _J | 13.0 | | pF |
| Typical thermal resistance per leg | (NOTE 1) (NOTE 2) (NOTE 1) | R _{θJA} R _{θJA} R _{θJL} | 85.0 70.0 20.0 | °C/W |
| Operating junction and storage temperature range | T _J , T _{STG} | -55 to +150 | | °C |

NOTES:

(1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads

(2) On aluminum substrate P.C.B. with an area of 0.8 x 0.8" (2.0 x 2.0mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

(3) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

(4) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

RATINGS AND CHARACTERISTIC CURVES RMB2S THRU RMB4S

