

Bridge Rectifier

RMB6S

600V / 0,5A

DATASHEET

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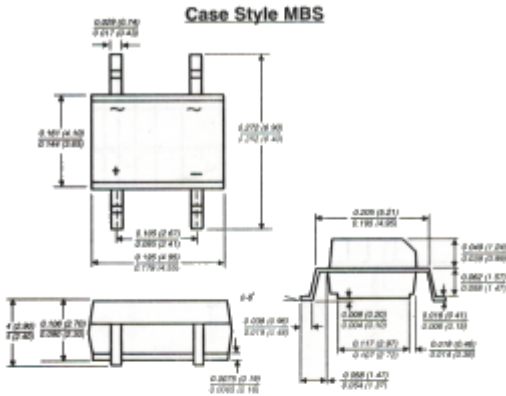
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PATENT PENDING PATENT PENDING PATENT PENDING

RMB2S THRU RMB6S

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

Reverse Voltage - 200 to 600 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.

	SYMBOLS	RMB2S	RMB4S	RMB6S	UNITS
Device marking code		R2	R4	R6	
Maximum repetitive peak reverse voltage	VRRM	200	400	600	Volts
Maximum RMS voltage	VRMS	140	280	420	Volts
Maximum DC blocking voltage	VDC	200	400	600	Volts
Maximum average forward output rectified current at TA=30°C - on glass-epoxy P.C.B. (NOTE 1) - on aluminum substrate (NOTE 2)	IAV		0.5 0.8		Amp
Peak forward surge current 8.3msec single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		30.0		Amps
Rating for fusing (t<8.3ms)	IFt		5.0		A²sec
Maximum instantaneous forward voltage drop per leg at 0.4A	VF		1.15		Volts
Maximum DC reverse current at rated DC blocking voltage per leg TA=25°C TA=125°C	IR		5.0 100		µA
Maximum reverse recovery time (NOTE 3)	trr		150	250	ns
Typical junction capacitance per leg (NOTE 4)	CJ		13.0		pF
Typical thermal resistance per leg (NOTE 1) (NOTE 1) (NOTE 2)	REJA REJA REJL		85.0 70.0 20.0		°C/W
Operating junction and storage temperature range	TJ, TSTG		-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 x 0.25" (2.0 x 2.0 x 0.64mm) mounted on 0.05 x 0.05" (1.27 x 1.27mm) solder pad
- (3) Reverse recovery test conditions: Ir=0.5A, Im=1.0A, tr=0.25A
- (4) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

RATINGS AND CHARACTERISTIC CURVES RMB2S THRU RMB6S

