

RMB2S - RMB4S

Miniature Glass Passivated Fast Recovery Surface Mount Bridge Rectifier

PRV : 200 - 400 Volts

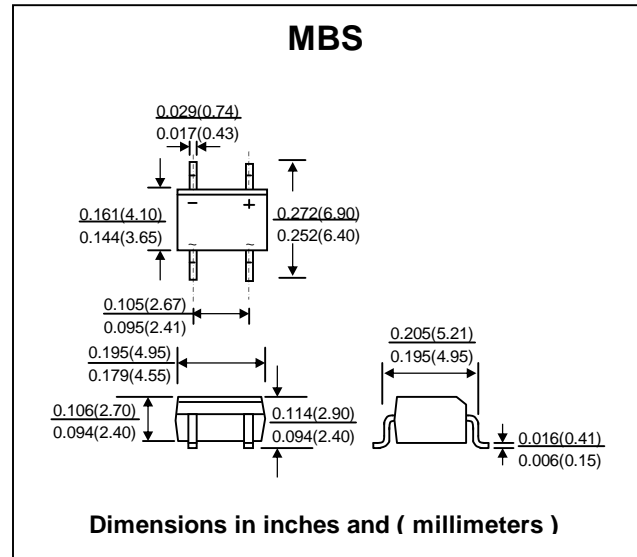
Io : 0.5 Ampere

FEATURES :

- * Glass passivated chip junctions.
- * High surge overload rating : 35A peak
- * Saves space on printed circuit boards.
- * High temperature soldering guaranteed : 260 °C/10 seconds.
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : Plated Lead solderable per MIL-STD-750, Method 2026
- * Polarity : Polarity symbols marked on body
- * Mounting position : Any
- * Weight : 0.22 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
60 Hz, resistive or inductive load.

RATING	SYMBOL	RMB2S	RMB4S	UNIT
Device Marking Code		2R	4R	
Maximum Repetitive Reverse Voltage	VRRM	200	400	V
Maximum RMS Voltage	VRMS	140	280	V
Maximum DC Blocking Voltage	VDC	200	400	V
Maximum Average Forward Output Rectified Current (See Fig.1)	IF(AV)	0.5 ⁽¹⁾ (on glass-epoxy P.C.B.) 0.8 ⁽²⁾ (on aliminum substrate)		A
Maximum Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	30		A
Rating for fusing (t < 8.3 ms.)	I ² t	5.0		A ² S
Maximum Instantaneous Forward Voltage per element at IF = 0.4 A	VF	1.25		V
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 125°C	IR	5.0		μA
	IR(H)	100		μA
Maximum reverse recovery time at IF=0.5A, IR=1.0A, Irr=0.25A	Trr	150		ns
Typical Junction Capacitance per element	Cj	13 ⁽³⁾		pF
Typical Thermal Resistance	RθJA	85 ⁽¹⁾		°C/W
Junction and Storage Temperature Range	TJ, TSTG	-55 to + 150		°C

Notes : (1) On glass epoxy P.C Board mounted on 0.5" x 0.5" (13mm x 13mm) Pads.

(2) On aluminum substrate P.C.B. with an area 0.8" x 0.8" (20mm x 20mm) mounted on 0.5" x 0.5" (13mm x 13mm) Pads.

(3) Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

RATING AND CHARACTERISTIC CURVES (RMB2S - RMB4S)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

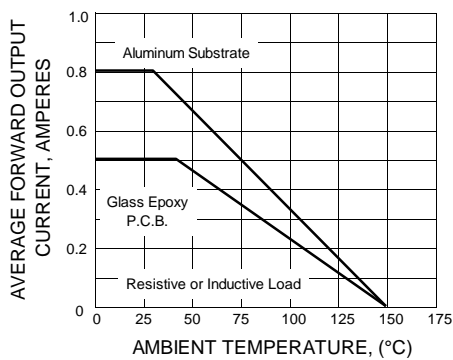


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

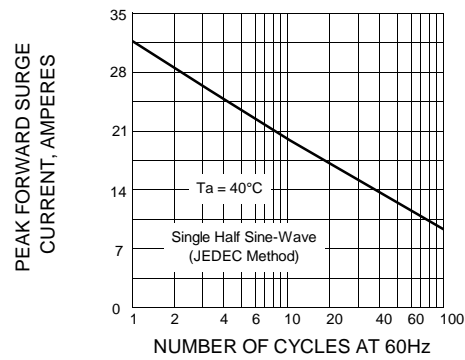


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

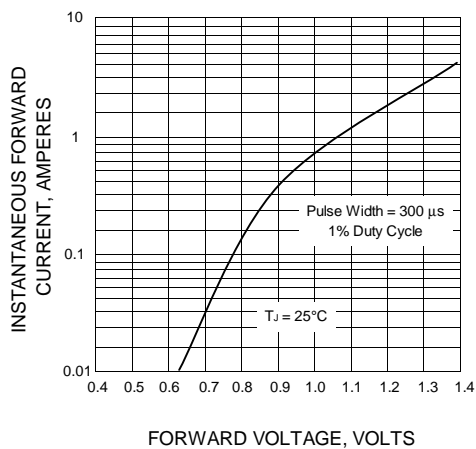


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

