

RMB2S - RMB4S

Miniature Glass Passivated Fast Recovery Surface Mount Bridge Rectifiers

PRV : 200 - 400 Volts

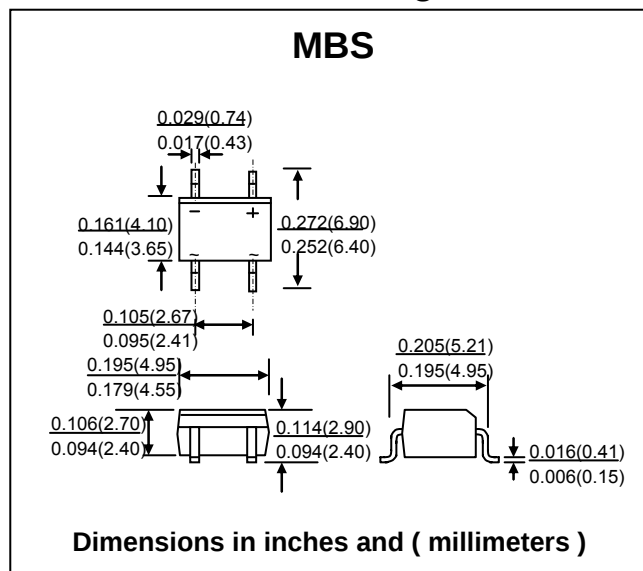
Io : 0.5 Ampere

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	V_{RRM}	200	400	V
Maximum RMS Voltage	V_{RMS}	140	280	V
Maximum DC Blocking Voltage	V_{DC}	200	400	V
Maximum Average Forward Output Rectified Current (See Fig.1)	$I_{F(AV)}$	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)	I_{FSM}	30		A
Rating for fusing (t < 8.3 ms.)	I^2t	5.0		A ² S
Maximum Instantaneous Forward Voltage per element at $I_F = 0.4$ A	V_F	1.25		V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 125^\circ\text{C}$	I_R	5.0		μA
	$I_{R(H)}$	100		μA
Maximum reverse recovery time at $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$	T_{rr}	150		ns
Typical Junction Capacitance per element	C_j	13 ⁽³⁾		pF
Typical Thermal Resistance	$R_{\theta JA}$	85 ⁽¹⁾		°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-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

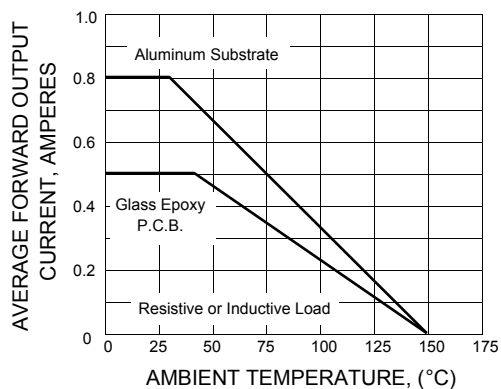


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

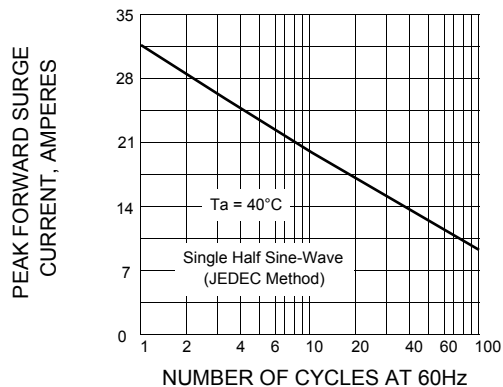


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

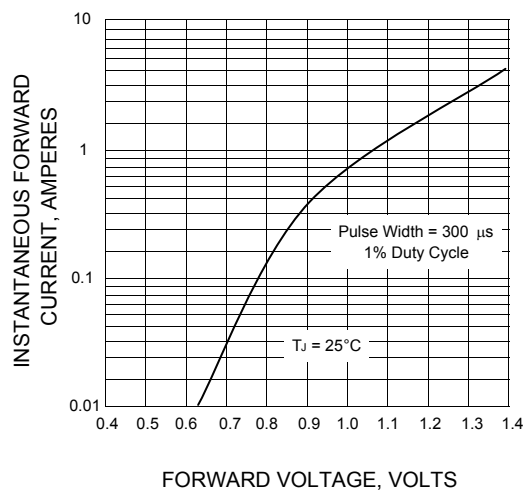


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

