MB1S thru MB10S

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 0.8 Amperes

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- In compliance with EU RoHS 2002/95/EC directives

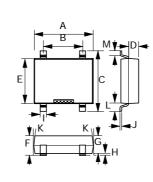
MECHANICAL DATA

• Polarity : As marked on Body

• Weight: 0.0044 ounces, 0.125 grams

• Mounting position : Any

MBS



	MBS						
DIM.	MIN.	MAX.					
Α	4.50	4.90					
В	2.30	2.70					
С	-	7.00					
D	0.90	1.30					
E	3.80	4.20					
F	_	3.00					
G	2.30	2.70					
Н	-	0.20					
I	0.50	0.80					
J	0.15	0.35					
K	5∘ T	5° TYPICAL					
L	1.30	1.70					
М	0.70	1.10					
All Dime	nsions in r	nillimeter					

MAXIMUM RATINGS 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%

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PARAMETER	SYMBOL	MB	MB	MB	MB	MB	MB	MB	UNIT
		1S	2S	3S	4S	6S	8S	10S	
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @TA=40°C	IF				0.8				A
I ² t Rating for fuisng (t< 8.3mS)	I ² t	3.735							A ² sec
Peak forward surge current, single sine-wave superim posed on rated load (JEDEC method)	Ifsm	30							A
Maximum instantaneous Forward Voltage Drop per element at 0.8A DC	VF	1.1							V
Maximum DC Reverse Current @TA=25℃ at Rated DC Blocking Voltage @TA=100℃	Ir	5.0 500							uA
Typical junction capacitance per leg(note1)	Сл	15							
Typical Thermal Resistance Per leg (note2)	$R\theta$ JA	. 75							°C/W
	$R\theta$ JC	20							
Operating & StorageTemperature Range	Tj&Tstg	-55 to +150							${\mathbb C}$

note1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts

note2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5x0.5" (13x13mm) copper pads.

