

## GLASS PASSIVATED BRIDGE RECTIFIERS

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

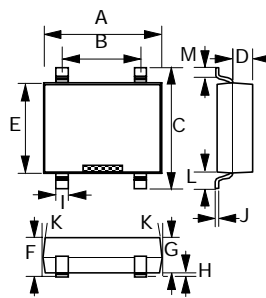
### FEATURES

- 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.
A	4.50	4.90
B	2.30	2.70
C	—	7.00
D	0.90	1.30
E	3.80	4.20
F	—	3.00
G	2.30	2.70
H	—	0.20
I	0.50	0.80
J	0.15	0.35
K	5° TYPICAL	
L	1.30	1.70
M	0.70	1.10

All Dimensions in millimeter

## 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%

PARAMETER	SYMBOL	MB 1S	MB 2S	MB 3S	MB 4S	MB 6S	MB 8S	MB 10S	UNIT
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 <sup>2</sup> t Rating for fusing (t < 8.3mS)	I <sup>2</sup> t	3.735							A <sup>2</sup> sec
Peak forward surge current, single sine-wave superimposed 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°C at Rated DC Blocking Voltage @TA=100°C	IR	5.0 500							uA
Typical junction capacitance per leg(note1)	CJ	15							pF
Typical Thermal Resistance Per leg (note2)	RθJA RθJC	75 20							°C/W
Operating & Storage Temperature Range	Ti&Tstg	-55 to +150							°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.

