

**GLASS PASSIVATED BRIDGE RECTIFIERS**

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

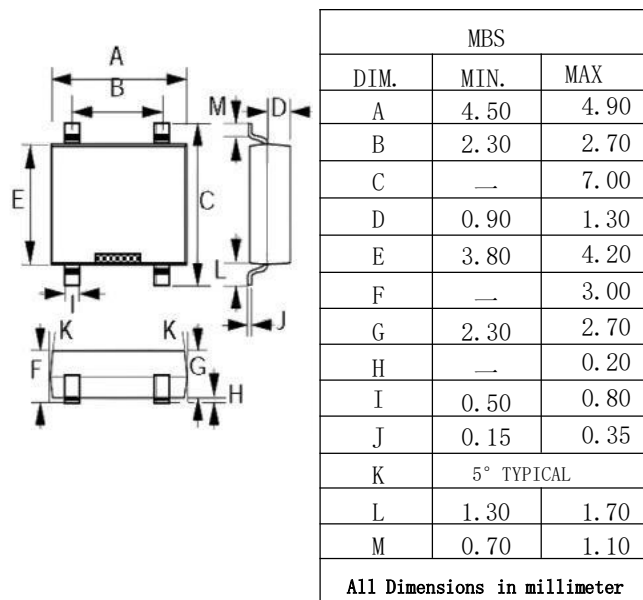
### FEATURES

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



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° 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
<sup>2</sup> t Rating for fuisng(t<8.3mS)	I <sup>2</sup> t	3.735							A <sup>2</sup> sec
Peak forward surge current,single sine-wave superim posed onrated 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(notel)	C	15							pF
Typical Thermal Resistance Per leg (note2)	ReJA ReIC	75 20							°C/W
Operating&StorageTemperature Range	Tj&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.

### Rating and Characteristic Curves

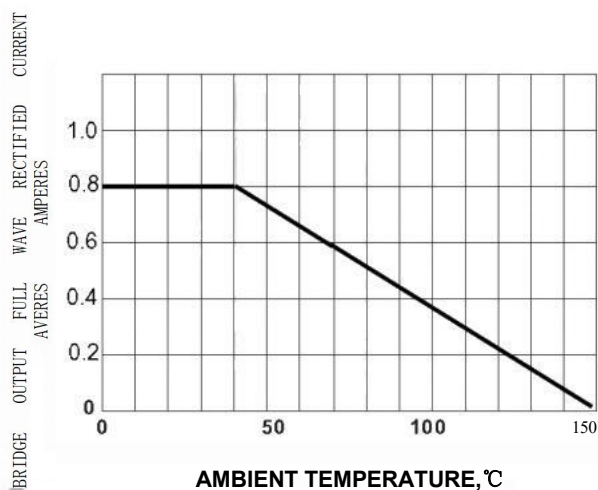


Fig.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

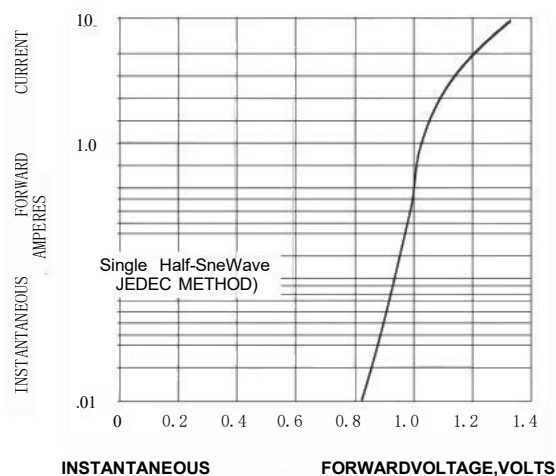


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

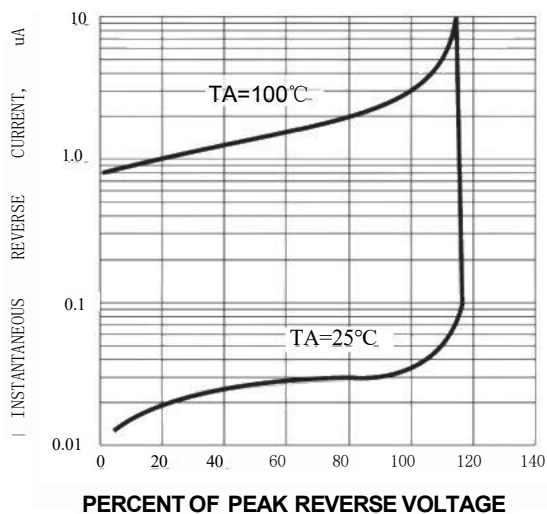


Fig.3 TYPICAL PEAK REVERSE CHARACTERISTICS

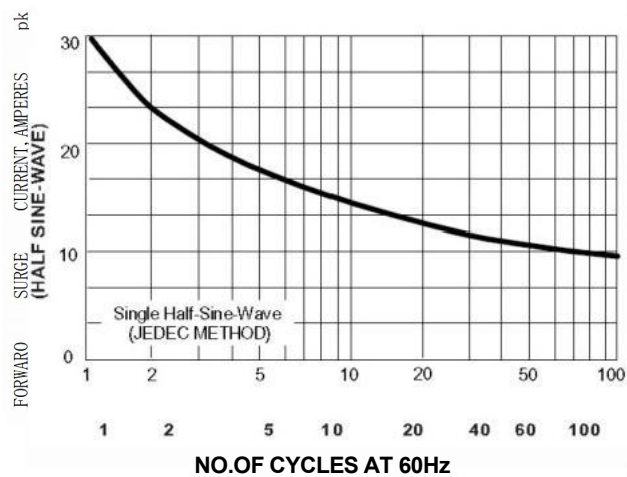


Fig.4 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT