



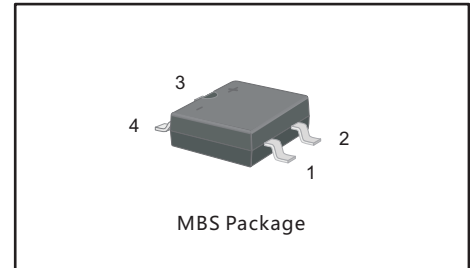
## 1.2A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### FEATURES:

Glass Passivated Chip Junction  
Reverse Voltage - 100 to 1000 V  
Forward Current - 1.2A  
High Surge Current Capability  
Designed for Surface Mount Application

### PINNING

PIN	DESCRIPTION
1	Input Pin ( ~ )
2	Input Pin ( ~ )
3	Output Anode ( + )
4	Output Cathode ( - )



### MECHANICAL DATA

- Case: MBS
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 100mg / 0.0035oz

### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	MB1S-12	MB2S-12	MB4S-12	MB6S-12	MB8S-12	MB10S-12	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_c=125\text{ }^{\circ}\text{C}$	$I_o$	1.2						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	40						A
Maximum Forward Voltage at 1.2 A	$V_F$	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A=25\text{ }^{\circ}\text{C}$ @ $T_A=125\text{ }^{\circ}\text{C}$	$I_R$	5 80						$\mu\text{A}$
Typical Junction Capacitance ( Note1 )	$C_j$	18						pF
Typical Thermal Resistance ( Note2 )	$R_{\theta JA}$ $R_{\theta JC}$	75 25						$^{\circ}\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150						$^{\circ}\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4×1.5"×1.5" ( 3.81×3.81 cm ) copper pad.



Fig.1 Average Rectified Output Current Derating Curve

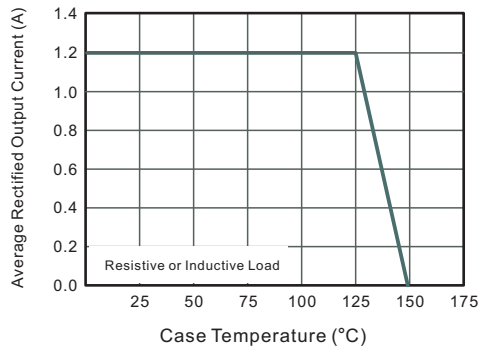


Fig.2 Typical Reverse Characteristics

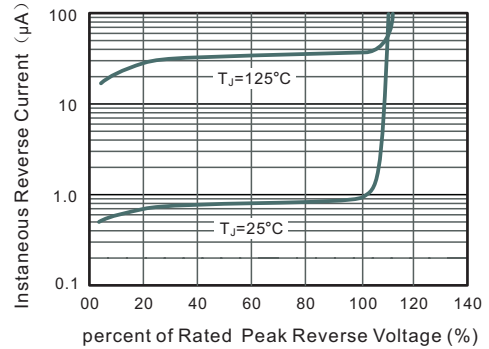


Fig.3 Typical Instantaneous Forward Characteristics

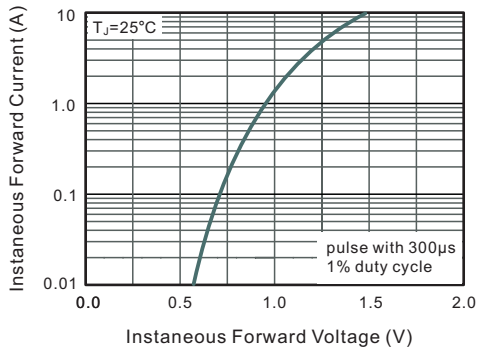


Fig.4 Typical Junction Capacitance

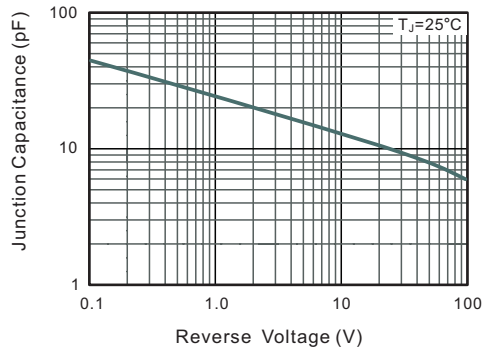
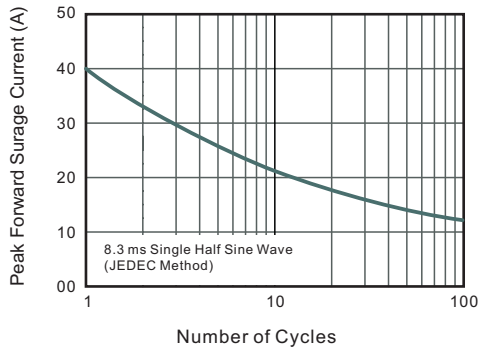


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

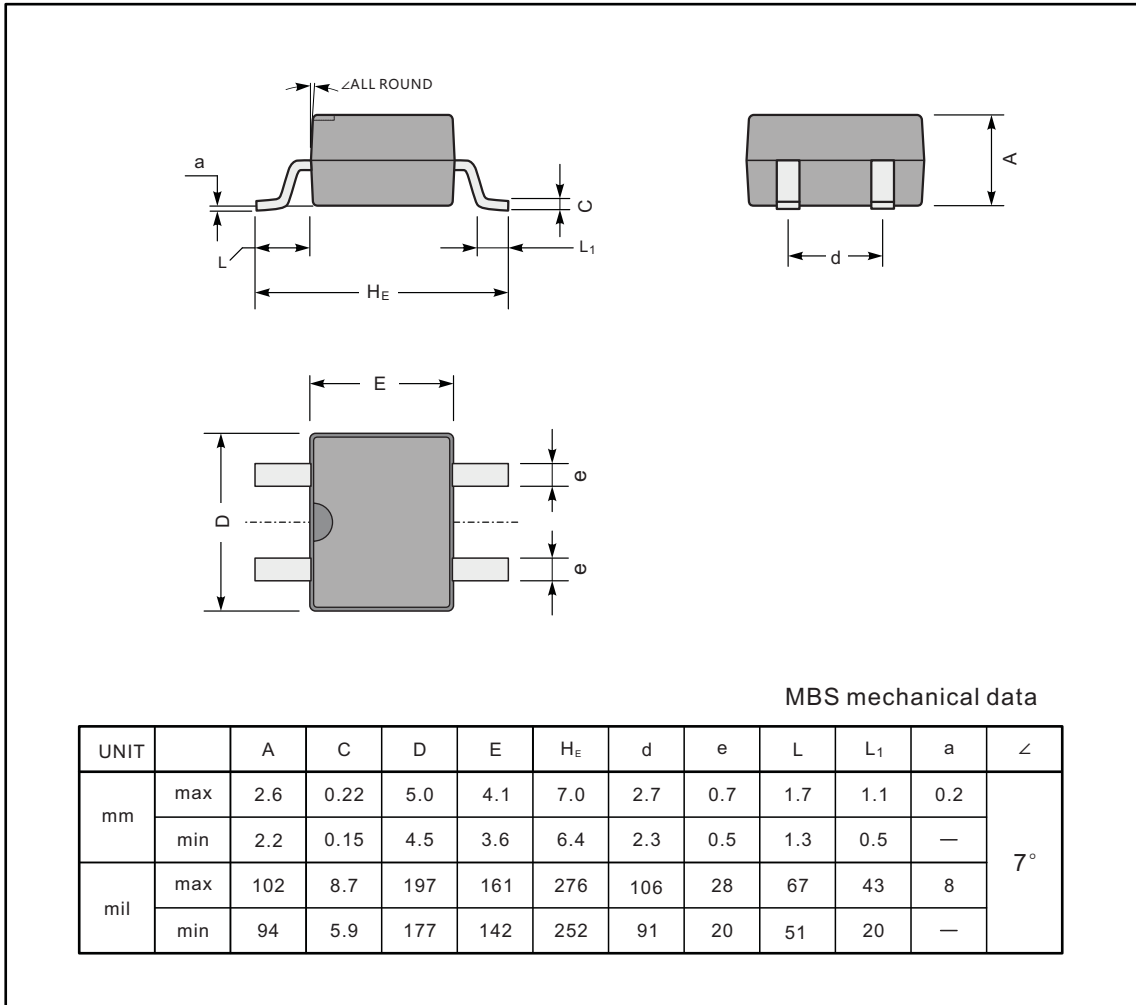




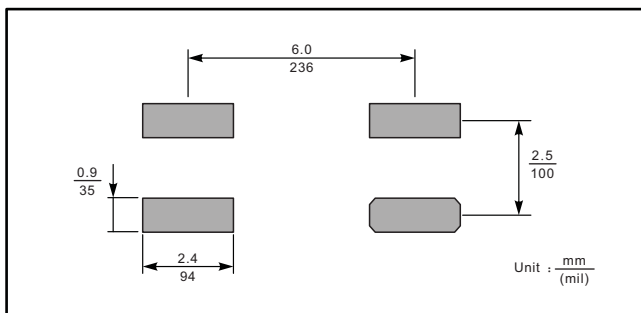
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

MBS

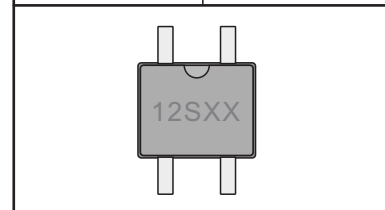


The recommended mounting pad size



Marking

Type number	Marking code
MB1S-12	12S1
MB2S-12	12S2
MB4S-12	12S4
MB6S-12	12S6
MB8S-12	12S8
MB10S-12	12S10



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