

## MB1S THRU MB10S MBS

3

MBS

1.Input pin(~) 2.Input pin(~)

3.Output Anode(+)

4.Output Cathode(-)

# 1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER Reverse Voltage - 100 to 1000 V Forward Current – 1.0A

### **FEATURES**

High current capability
Low forward voltage drop
Glass Passivated Chip Junction
Low power loss, high efficiency

Lead free in comply with EU RoHS 2011/65/EU directives

### 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	MB2S	MB4S	MB6S	MB8S	MB10S	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	v
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	v
Average Rectified Output Current at Tc = 125 °C	I <sub>o</sub>	1.0					A	
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I <sub>FSM</sub>	35				A		
Forward Voltage per element at 0.8A	V <sub>F</sub>	1.1			v			
Maximum DC Reverse Current @T <sub>A</sub> =25°C at Rated DC Blocking Voltage <sub>@T<sub>A</sub>=125°C</sub>	I <sub>R</sub>	5 40			μΑ			
Typical Junction Capacitance (Note1)	Cj	13			pF			
Typical Thermal Resistance (Note2)	$R_{\theta JA'} R_{\theta JC}$	90/32			°C/W			
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 ~ +150			°C			

(1) Measured at 1 MHz 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.





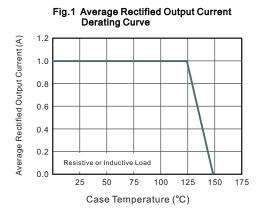
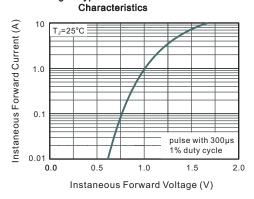


Fig.3 Typical Instaneous Forward



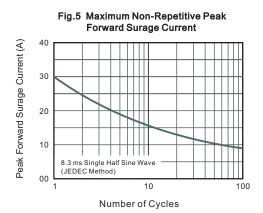


Fig.2 Typical Reverse Characteristics

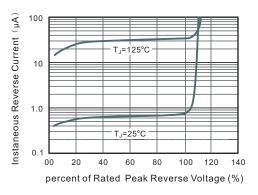
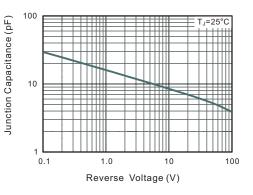
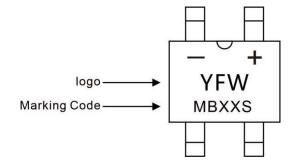


Fig.4 Typical Junction Capacitance





### **Marking Diagram**

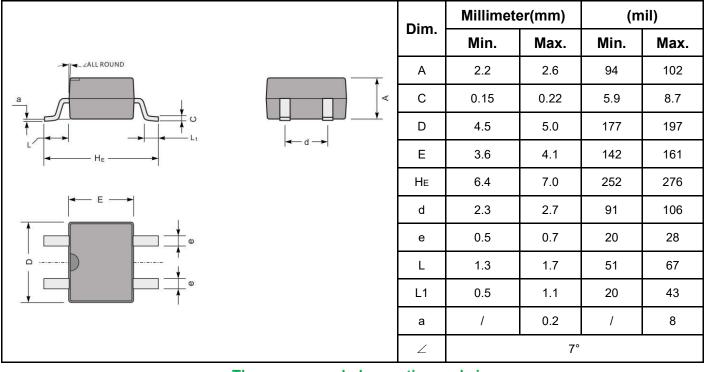


## Ordering information

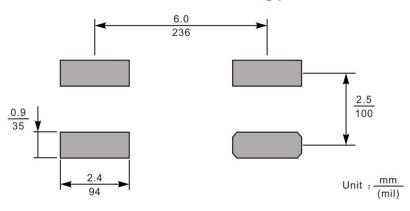
Package	Packing Description	Packing Quantity			
MBS	Tape/Reel,13"reel	3000PCS/Reel 30000PCS/Carton			

### **Package Dimensions**

### MBS



### The recommended mounting pad size





## Disclaimer

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