

# **GSMB310S**

Surface Mount Schottky Bridge Rectifier Reverse Voltage 100V Forward Current 3A

#### **Features**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- High forward surge capability



**MBS** 

### **Mechanical Data**

Case: MBS molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: 260°C/10 seconds

Mounting position: Any

## **Absolute Maximum Ratings and Electrical Characteristics**

(T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit	
Maximum Repetitive Reverse Voltage	Vrrm	100	V	
RMS Reverse Voltage	VRMS	70	V	
DC Blocking Voltage	VDC	100	V	
Maximum Average Forward Output Current	lf(AV)	3	А	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave, at T <sub>J</sub> =25°C	lгэм	80	А	
Rating for Fusing (t<8.3ms)	l²t	26.56	A2sec	
Maximum Instantaneous Forward Voltage, at 1A	.,	0.68	V	
Maximum Instantaneous Forward Voltage, at 3A	$V_F$	0.85		
Maximum Reverse Current Rated V <sub>R</sub> , at T <sub>A</sub> =25°C	1	0.1	mA	
Maximum Reverse Current Rated V <sub>R</sub> , at T <sub>A</sub> =100°C	I <sub>R</sub>	10	IIIA	
Typical Thermal Resistance <sup>1</sup>	Reja	85	°C/W	
	Rejl	20		
Operating Junction Temperature Range	TJ	-55 To +150	°C	
Storage Temperature Range	Тѕтс	-55 To +150	°C	

#### Notes

1. On aluminum substrate P.C.B.with an area of 0.8"×0.8" (20×20mm) mounted on 0.05"×0.05" (1.3×1.3mm) solder pad.



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## Ratings and Characteristics Curves (T<sub>A</sub>=25°C unless otherwise noted)

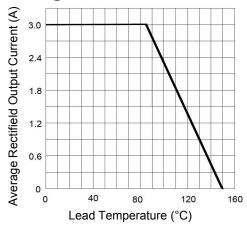


Figure 1. Forward Current Derating Curve

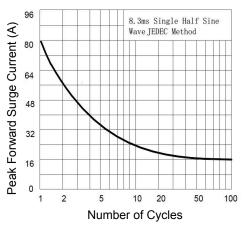


Figure 2. Surge Current Derating Curve

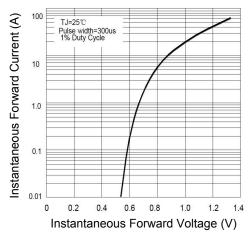
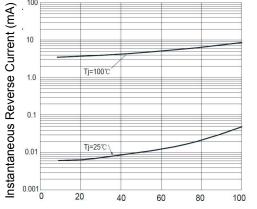


Figure 3. Typical Forward Voltage Characteristic



Percent of Rated Peak Reverse Voltage (%)

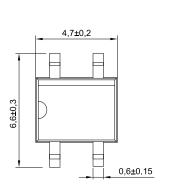
Figure 4. Typical Reverse Characteristics

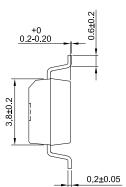


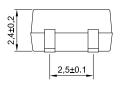
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# Package Outline Dimensions (MBS)

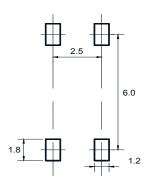






Unit: mm

## **Recommended Pad Layout**



Unit: mm

## **Order Information**

Device	Package	Marking	Carrier	Quantity
GSMB310S	MBS	MB310S	Tape & Reel	3,000pcs / Reel