

## **DATA SHEET**

## MB1S THRU MB10S

# MINI SURFACE MOUNT GLASS

# PASSIVATED SINGLE-PHASE

#### **BRIDGE RECTIFIER**

### **VOLTAGE 100 to 1000Volts 0.8 Amperes CURRENT**

#### FFATURES

Plastic material used carries Underwriters

Laboratory recognition 94V-O

Low leakage

Surge overload rating-- 30 amperes peak

Ideal for printed circuit board

Exceeds environmental standards of MIL-S-19500

High temperature soldering : 260°C / 10 seconds at terminals Pb free product at available : 99% Sn above meet RoHS

environment substance directive request

#### **MECHANICAL DATA**

Case: Reliable low cost construction utilizing molded plastic technique results in

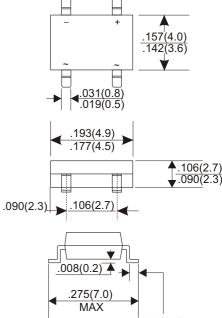
inexpensive product

Terminals: Lead solderable per MIL-STD-202, Method 208. Polarity: Polarity symbols molded or marking on body.

Mounting Position: Any.

Weight: 0.008 ounce, 0.22 gram.

# MDI Unit:inch(mm)



#### 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%

	SYMBOLS	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	100	200	400	600	800	1000	٧
Maximum RMS Voltage	VRMS	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	100	200	400	600	800	1000	V
Maximum Average Forward Current at TA = 40 TA=25 (Note 3)	IAV	0.8					А	
Peak Forward Surge Current:8.3ms single half sine - wave superimposed on rated load (JEDEC method )	IFSM	35					А	
I2t Rating for fusing (t<8.35ms)	I2t	3.735					A2s	
Maximum Forward Voltage Drop per Bridge Element at 0.8A	VF	1.0					V	
Maximum DC Reverse Current TJ = 25 at Rate DC Blocking Voltage TJ =125	IR	5.0 500					μА	
Typical Junction capacitance (Note 1)	CJ	25					pF	
Typical thermal resistance (Note2)	R JA R JL	85 20					/W	
Operating Temperature Range	TJ, TSTG	-55 to +150						

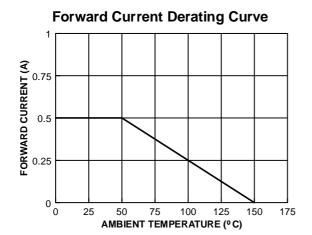
#### NOTES:

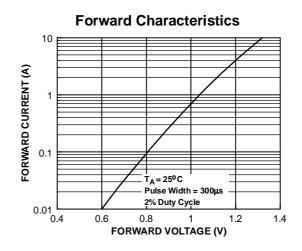
- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- 2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X 0.5"(13 X 13mm) copper pads
- 3. \* R-load on alumina subtrate Ta=25

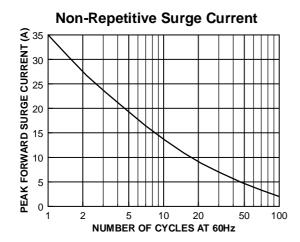
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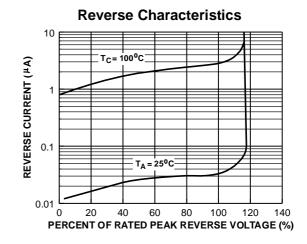
# **DEVICE CHARACTERISTICS**

# MB1S THRU MB10S

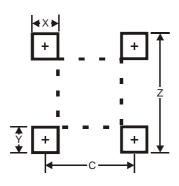








#### **PAD LAYOUT**



Dimensions	MDI(mm)		
Z	7.5		
Х	1.2		
Υ	1.6		
С	2.7		