



### MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

0.8 Ampere

VOLTAGE 100 to 1000Volt CURRENT

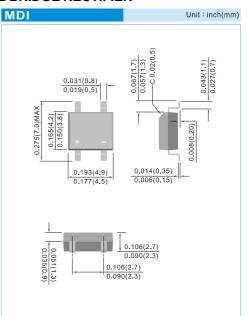
Recongnized File # E111753

### FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)

#### **MECHANICAL DATA**

- Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols molded or marking on body
- Weight: 0.0044 ounce, 0.1268 gram



### 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%

PARAMETER	SYMBOL	B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>R</sub>	100	200	400	600	800	1000	V
Maximum Average Forward Current Ta=55°C Ta=25°C	I <sub>F(AV)</sub>	0.5 0.8					А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	35						А
Power Dissipation at TA=25°C	PD	1.4					W	
I <sup>2</sup> t Rating For Fusing (t<8.35ms)	I²t	5.083					A <sup>2</sup> S	
Maximum Forward Voltage Drop per Bridge Element at 0.5A	V <sub>F</sub>	1.0				V		
Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=125^{\circ}C$	I <sub>R</sub>	5 500					μА	
Typical Junction Capacitance (Note 1)	C			2	5			pF
Typical Thermal Resistance (Note 2)	$R_{_{ heta JA}}$ $R_{_{ heta JL}}$	85 20				°C / W		
Operating Junction and Storage Temperature Range		-55 to +150					°C	

#### NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4 Volts.
- 2. Thermal resistance from junction to ambient mounted on 5cmX6cm P.C.B. with minimum copper pads.





### **RATING AND CHARACTERISTIC CURVES**

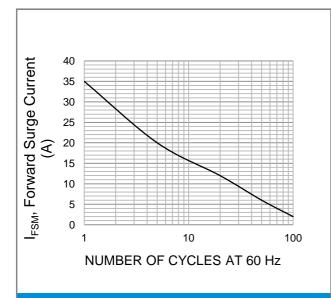


Fig. 1 MAXIMUM NON-REPETITIVE SURGE CURRENT

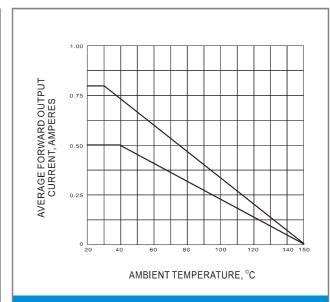
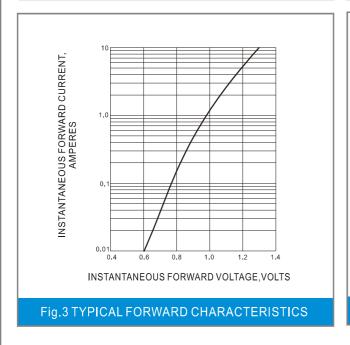


Fig.2 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



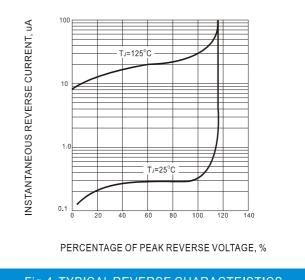
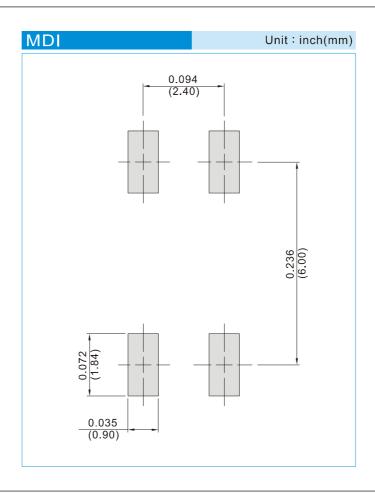


Fig.4 TYPICAL REVERSE CHARACTEISTICS





### **MOUNTING PAD LAYOUT**



### ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel





## Part No\_packing code\_Version

B1S\_R2\_00001 B1S\_R2\_10001

## For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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