



MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

0.8 Ampere

VOLTAGE 100 to 1000Volt CURRENT

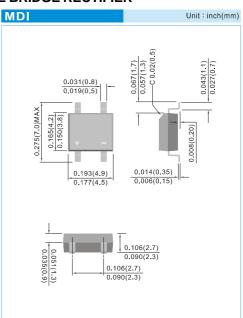
Recongnized File # E111753

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	V _{RRM}	100	200	400	600	800	1000	٧
Maximum RMS Bridge Input Voltage	V _{RMS}	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _R	100	200	400	600	800	1000	٧
Maximum Average Forward Current Ta=55°C Ta=25°C	I _{F(AV)}	0.5 0.8					А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	35				А		
Power Dissipation at Ta=25°C		1.4					W	
I ² t Rating For Fusing (t<8.35ms)		5.083					A ² S	
Maximum Forward Voltage Drop per Bridge Element at 0.5A		1.0					V	
Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=125^{\circ}C$	I _R	5 500			μΑ			
Typical Junction Capacitance (Note 1)	CJ			2	5			pF
Typical Thermal Resistance (Note 2)		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

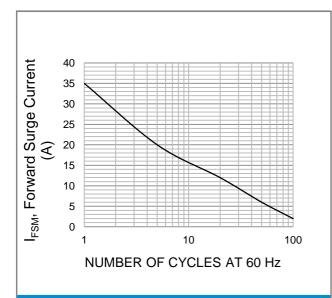


Fig. 1 MAXIMUM NON-REPETITIVE SURGE CURRENT

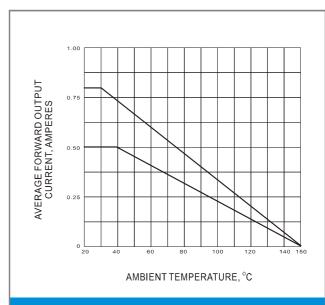
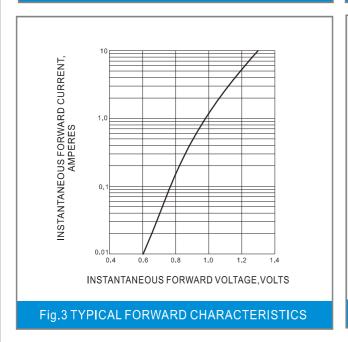


Fig.2 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



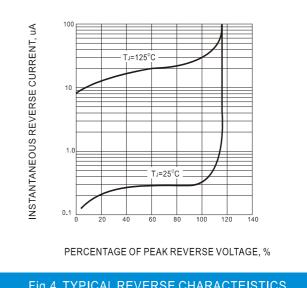
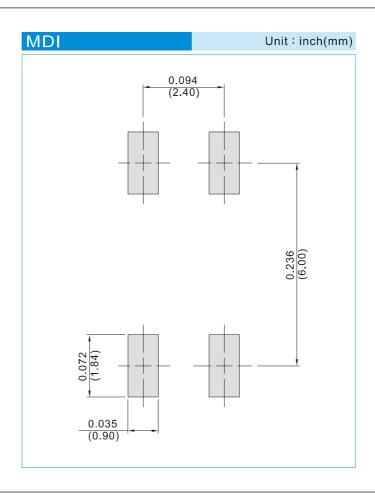


Fig.4 TYPICAL REVERSE CHARACTEISTICS





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 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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)	٦	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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