



B1S~B10S

MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 100 to 1000Volts CURRENT 0.8 Amperes

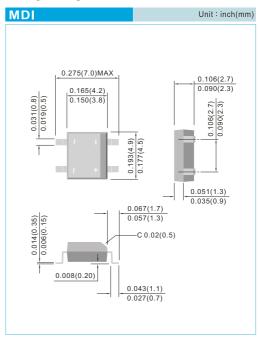
Recongnized File # E111753

FEATURES

- 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
- In compliance with EU RoHS 2002/95/EC directives

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
- · Mounting Position: Any
- 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					V	
Maximum DC Blocking Voltage	V _R	100	200	400	600	800	1000	V
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 (JEDEC method)	I _{FSM}	30						А
Power Dissipation at Ta=25°C	P□	1.4						W
I ² t Rating for fusing (t<8.35ms)	l²t	3.735						A ² S
Maximum Forward Voltage Drop per Bridge Element at 0.5A	V _F	1.0						V
Maximum DC Reverse Current at Rated DC T_J =25 °C Blocking Voltage T_J =125 °C	I _R	5.0 500						μА
Typical Junction capacitance (Note 1)	C¹	25					pF	
Typical thermal resistance (Note 2)	$R_{_{ heta JA}} \ R_{_{ heta JL}}$	85 20						°C / W
Operating Junction and Storage Temperature Range	T_{J},T_{STG}	-55 to +150						O°

NOTES:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2. Thermal resistance from junction to ambient mounted mounted on 5cmX6cm P.C.B. with minimum copper pads.

March 31,2011-REV.02 PAGE . 1





B1S~B10S

RATING AND CHARACTERISTIC CURVES

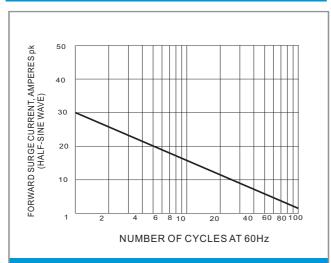


Fig.1 MAXIMUM NON-REPETITIVE SURGE CURRENT

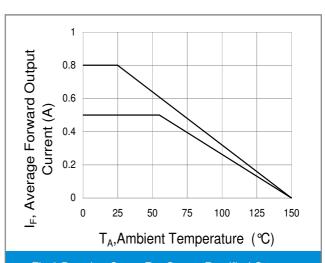


Fig.2 Derating Curve For Output Rectified Current

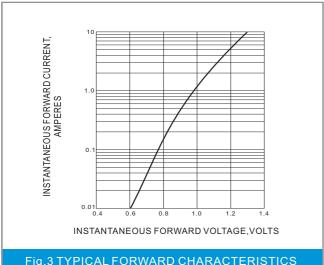


Fig.3 TYPICAL FORWARD CHARACTERISTICS

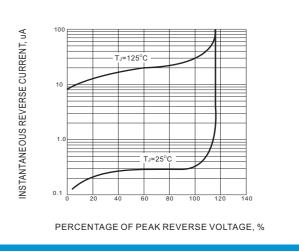


Fig.4 TYPICAL REVERSE CHARACTERISTICS

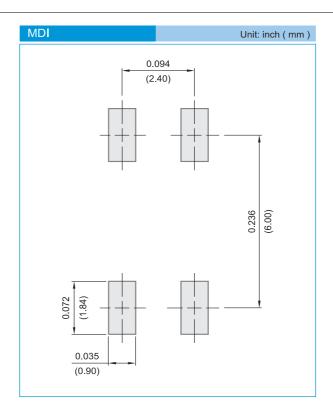
March 31,2011-REV.02 PAGE . 2





B1S~B10S

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

LEGAL STATEMENT

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March 31,2011-REV.02 PAGE . 3