PANJIT SEMI CONDUCTOR

B1S~B10S

MINI SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

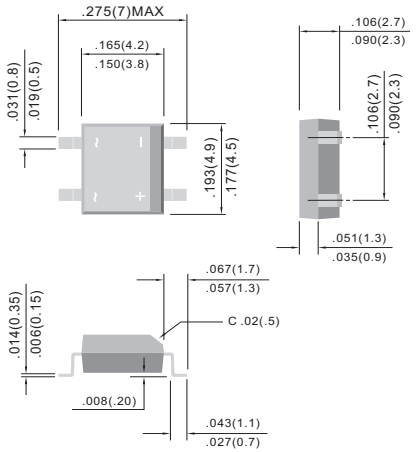
VOLTAGE 100 to 1000Volts **CURRENT** 0.5 Amperes

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

MDI Unit: inch(mm)



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: 0.008 ounce, 0.22 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	V
Maximum RMS Bridge Input Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Current T_A=40°C T_A=25°C (Note 3)	$I_{F(AV)}$	0.5 0.8*						A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30						A
I^2t Rating for fusing (t<8.35ms)	I^2t	3.735						A^2t
Maximum Forward Voltage Drop per Bridge Element at 0.5A	V_F	1.0						V
Maximum DC Reverse Current T_J=25 °C at Rated DC Blocking Voltage T_J=125 °C	I_R	5.0 500						uA
Typical Junction capacitance (Note 1)	C_J	25						pF
Typical thermal resistance per leg ((Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	85 20						°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150						°C

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

B1S~B10S

RATING AND CHARACTERISTIC CURVES

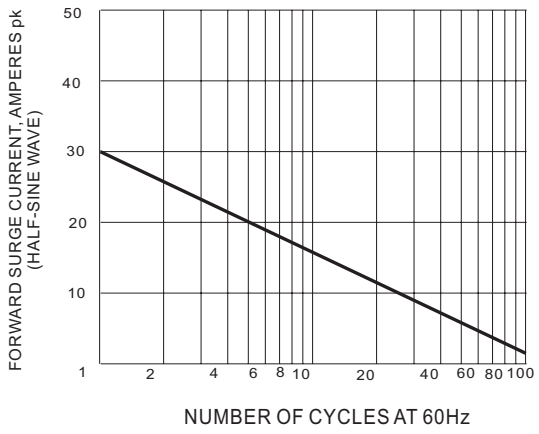


Fig.1 MAXIMUM NON-REPETITIVE SURGE CURRENT

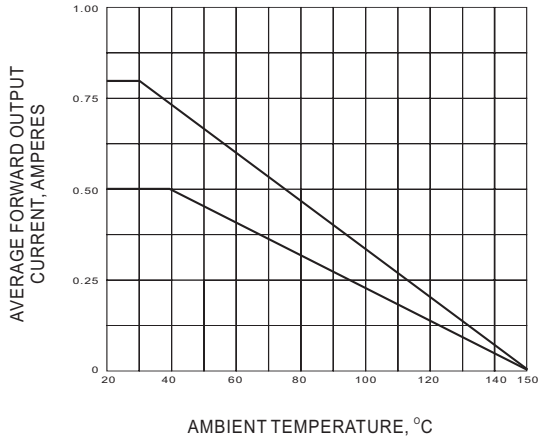


Fig.2 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

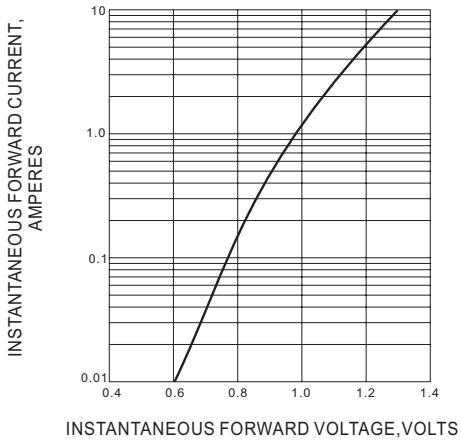


Fig.3 TYPICAL FORWARD CHARACTERISTICS

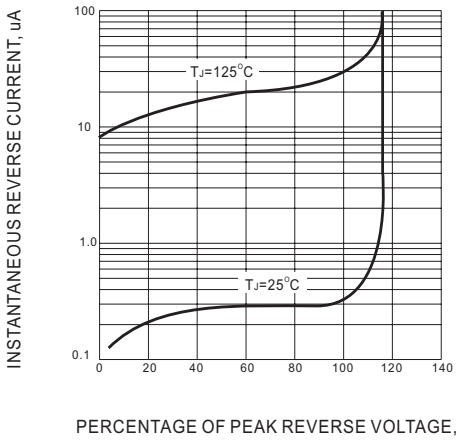
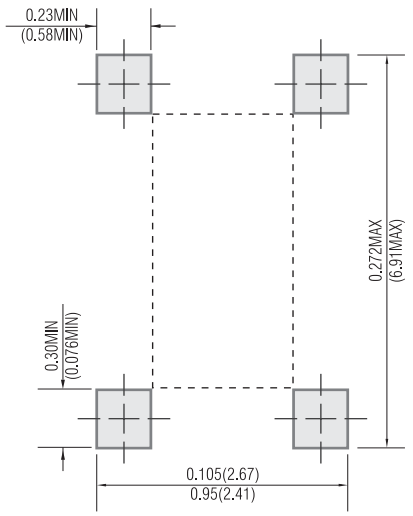


Fig.4 TYPICAL REVERSE CHARACTEISTICS

B1S~B10S

MOUNTING PAD LAYOUT

MDI/MB-S Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 3K per 13" plastic Reel

LEGAL STATEMENT