



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



VOLTAGE 100 to 1000Volts CURRENT 0.5 Amperes

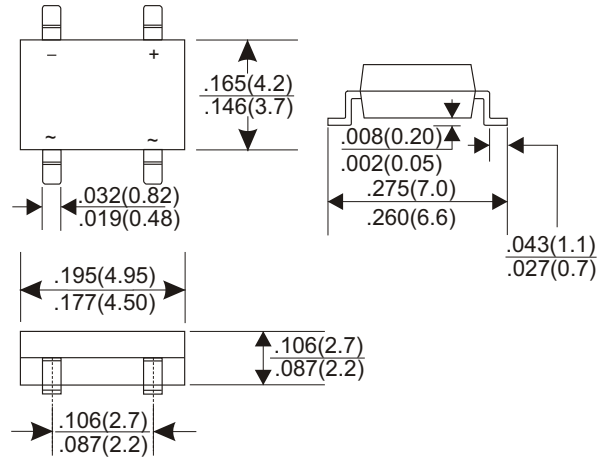
FEATURES

- Plastic material used carries Underwriters
- Laboratory recognition 94V-0
- Low leakage
- Surge overload rating - 35 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.

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%

PARAMETER	SYMBOL	B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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	IAV	0.8						A
on alumina substrate at TA = 25 °C		0.5						
on glass-epoxy at TA = 40 °C								
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	35						A
I ² t Rating for fusing (t<8.35ms)	I ² t	5.085						A ² t
Maximum Forward Voltage Drop per Bridge Element at 0.5A	VF	1.0						V
Maximum DC Reverse Current TJ=25	IR	5.0						uA
at Rated DC Blocking Voltage TJ=125		500						
Typical Junction capacitance (Note 1)	CJ	25						pF
Typical thermal resistance per leg (Note2)	RθJA	85						/W
	RθJL	20						
Operating Junction and Storage 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 13 mm) copper pads.

DEVICE CHARACTERISTICS

B1S THRU B10S

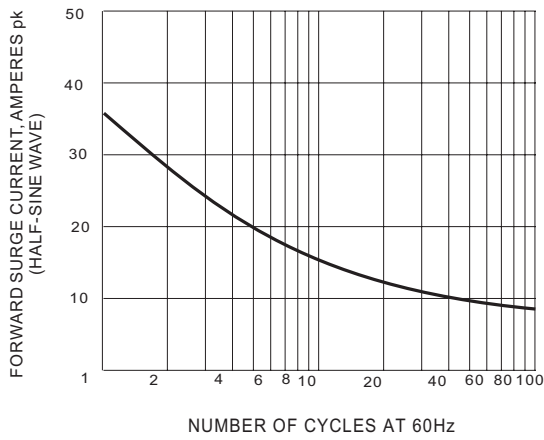


Fig.1 MAXIMUM NON-REPETITIVE SURGE CURRENT

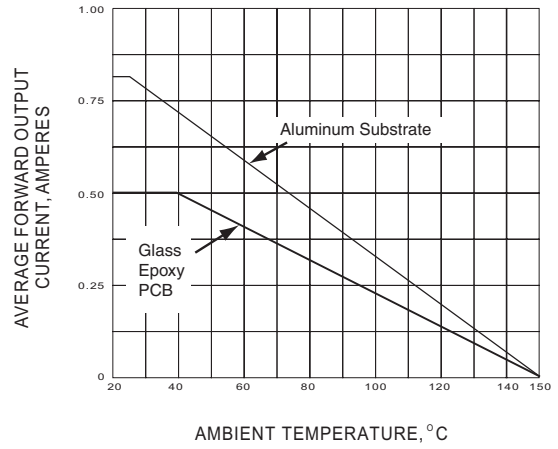


Fig.2 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

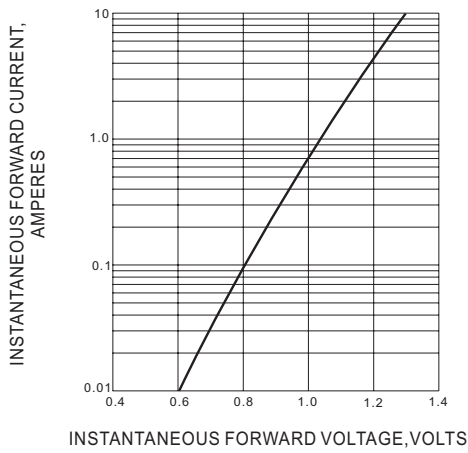


Fig.3 TYPICAL FORWARD CHARACTERISTICS

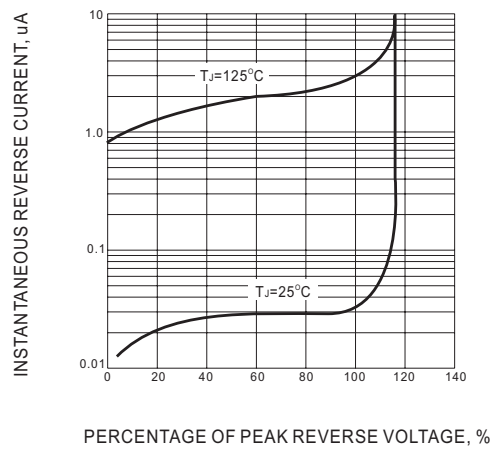


Fig.4 TYPICAL REVERSE CHARACTERISTICS