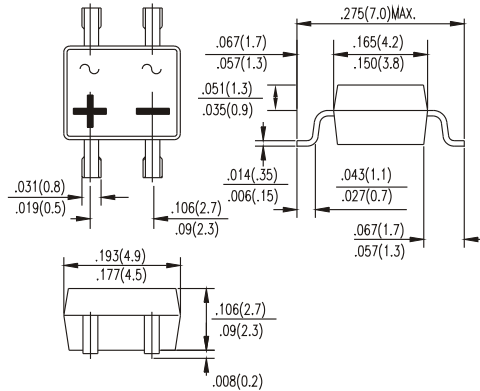
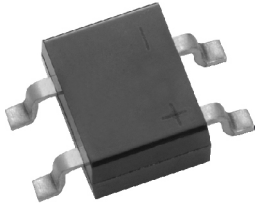


# B1S thru B10S

## MINI SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

VOLTAGE - 100 TO 1000 VOLTS CURRENT - 0.5 AMPERES



### FEATURES

- Plastic material used carries Underwriters
- Laboratory recognition 94V-0
- Low leakage
- Surge overload rating-30 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MMIL-S-19500

### 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  
 Weight : 0.008 ounce, 0.22gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temp. unless otherwise specified  
 Single phase, half sine wave, 60Hz, resistive or inductive load  
 For capacitive load, derate current by 20%

	B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage	100	200	400	600	800	1000	Volts
Maximum RMS Bridge input Voltage	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	100	200	400	600	800	1000	Volts
Maximum Average Forward on glass-epoxy P.C.B (Note 1) Current T <sub>A</sub> =30°C on aluminum substrate (Note 3)	0.5 0.8						Amps
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	30						Amps
I <sup>2</sup> t Rating fusing (t<8.35ms)	5						A <sup>2</sup> t
Maximum Forward Voltage Drop per Bridge Element at 0.5A	1						V
Maximum Reverse Current at Rated T <sub>J</sub> =25°C DC Blocking Voltage per element T <sub>J</sub> =125°C	5						μA
Typical Junction capacitance per leg (Note 1) C <sub>J</sub>	25						pF
Typical Thermal resistance per leg (Note 2) R <sub>θJA</sub>	85						°C / W
Operating Temperature Range T <sub>J</sub>	-55 to +150						°C
Storage Temperature Range T <sub>A</sub>	-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 0.05 x 0.05" (13x13mm) copper pads.
3. On alum : substrate P.C.B with an area of 0.8x0.8x0.25" (20x20x6.4mm) mounted on 0.05x0.05" (13x13mm) solder pad.

# B1S thru B10S

## MINI SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

### RATING AND CHARACTERISTICS CURVES B1S THRU B10S

Fig. 1 - FORWARD CURRENT DERATING CURVE

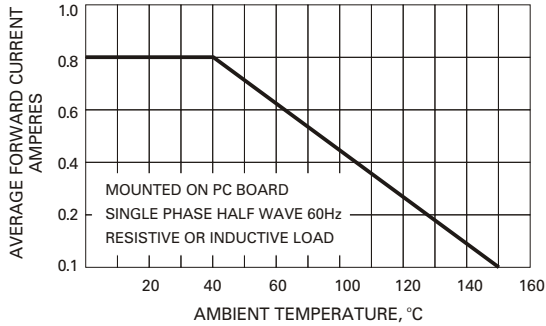


Fig. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

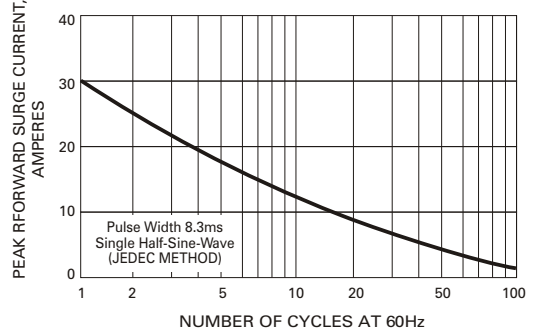


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS

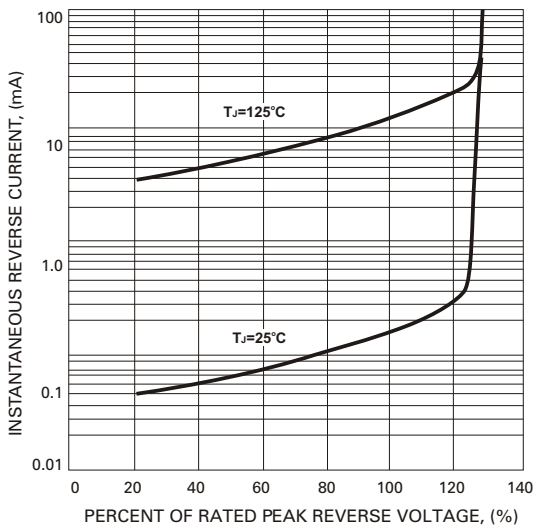


Fig. 4 - TYPICAL FORWARD CHARACTERISTICS

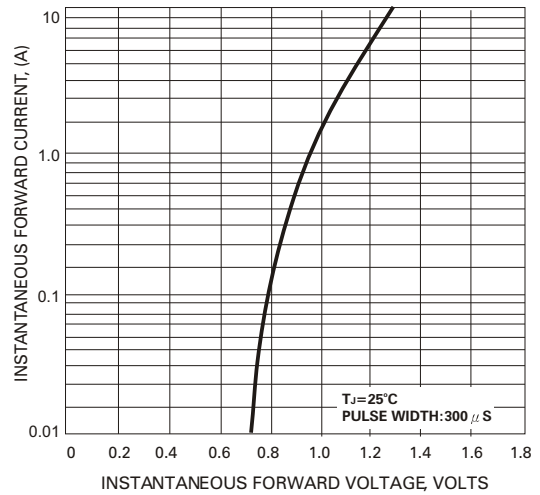


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

