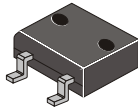
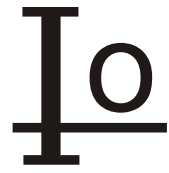


# B1S THRU B10S

MINI SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS



## FEATURES

- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Weight: 1.0 grams
- \* Lead Free Finish/RoHS Compliant

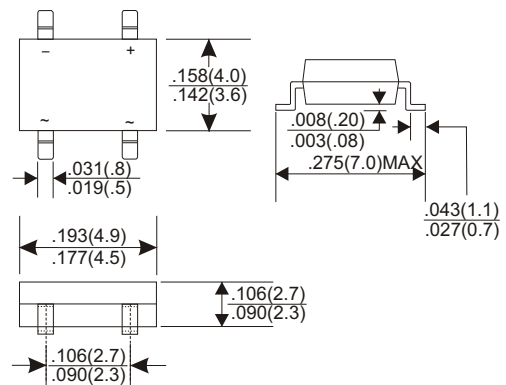
## VOLTAGE RANGE

100 to 1000 Volts

## CURRENT

1.0 Ampere

### SMD/MB-S



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbo	B1S	B2S	B4S	B6S	B8S	B10S	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	140	280	420	560	700	V
Maximum DC Blocking Voltag	$V_{DC}$	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current On glass-epoxy On aluminum substrate	$I_{F(AV)}$	0.8 1.0						A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	30						A
Maximum Instantaneous Forward Voltage (Note 1) @ 0.5A	$V_F$	0.95						V
Rating for fusing (t<8.3mS)	$I^2T$	3.74						A <sup>2</sup> sec
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10 150						uA
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	25 80						°C/W
Operating Temperature Range	$T_J$	- 55 to + 150						°C
Storage Temperature Range	$T_{STG}$	- 55 to + 150						°C

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Mounted on P.C.B. with 5mm x 5mm Copper Pads

## RATING AND CHARACTERISTIC CURVES (B1S THRU B10S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

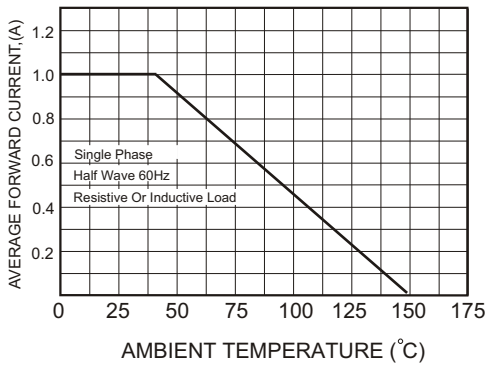


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

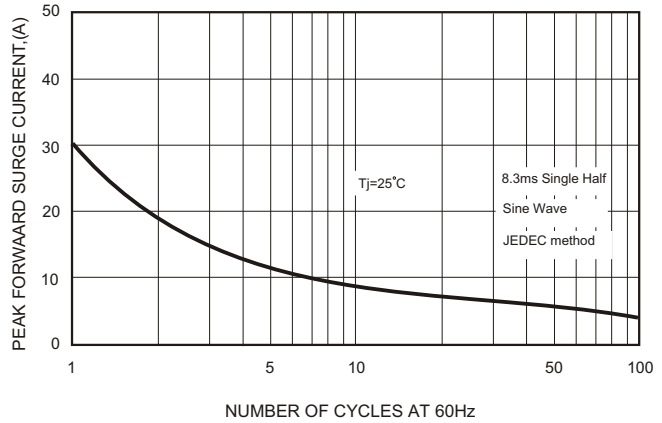


FIG.3-TYPICAL FORWARD CHARACTERISTICS

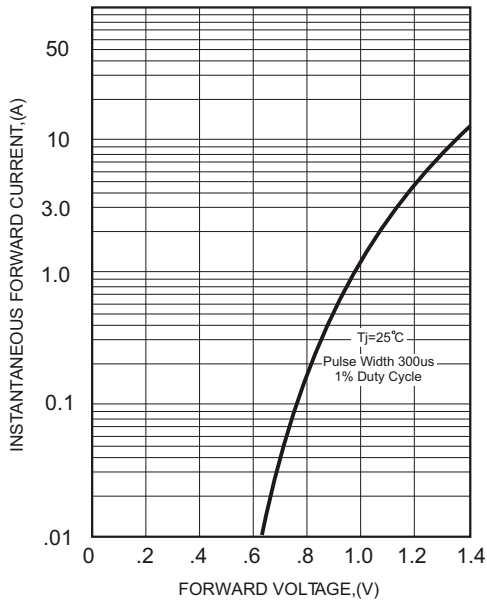


FIG.4-TYPICAL REVERSE CHARACTERISTICS

