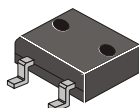


# B1S THRU B10S

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

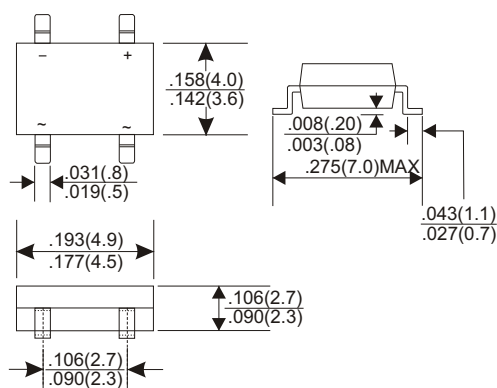
## VOLTAGE RANGE

100 to 1000 Volts

## CURRENT

0.8 Ampere

### SMD/MB-S



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage	100	200	400	600	800	1000	V
Maximum RMS Voltage	700	140	280	420	560	700	V
Maximum DC Blocking Voltage	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=40°C	0.8						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30						A
Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C.	1.0						V
Maximum DC Reverse Current Ta=25°C	10						uA
at Rated DC Blocking Voltage Ta=125°C	500						uA
Operating Temperature Range, Tj	-65 — +150						°C
Storage Temperature Range, TSTG	-65 — +150						°C

## RATING AND CHARACTERISTIC CURVES (B1S THRU B10S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

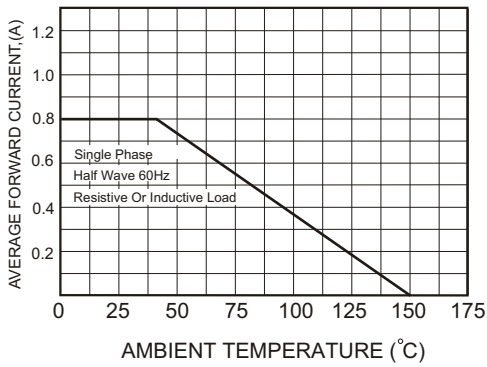


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

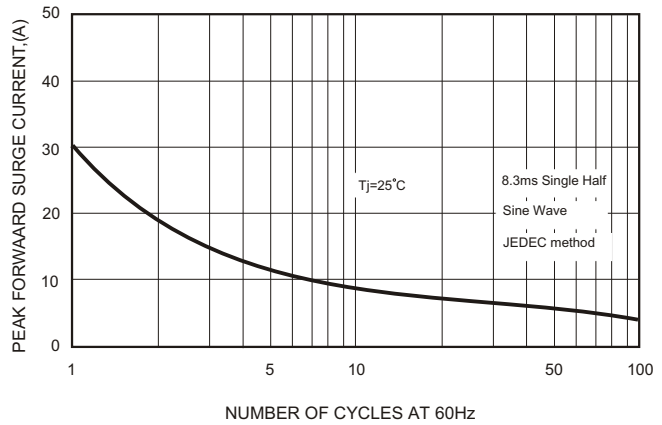


FIG.3-TYPICAL FORWARD CHARACTERISTICS

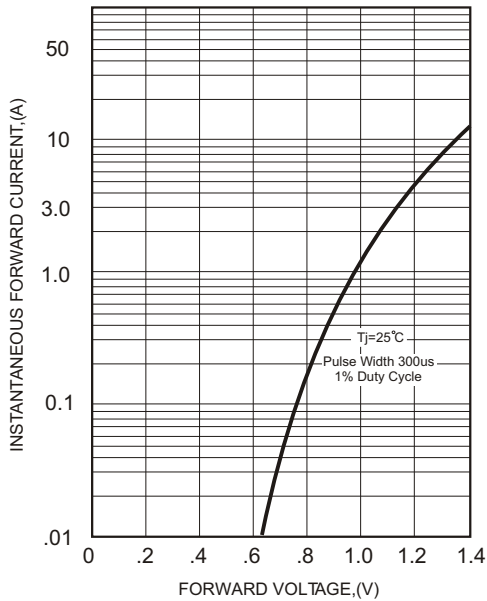


FIG.4-TYPICAL REVERSE CHARACTERISTICS

