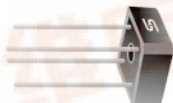


**TSC**  
**SB**

# SB305G THRU SB3100G

## Single Phase 3.0 AMPS. Glass Passivated Bridge Rectifiers

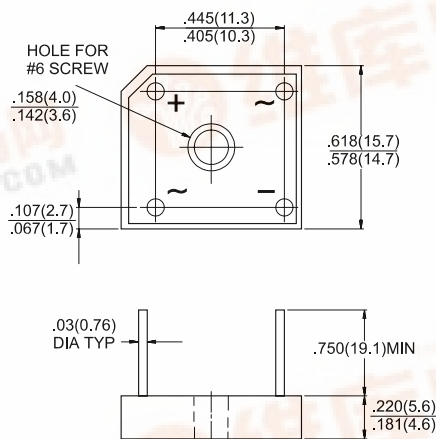


Voltage Range  
50 to 1000 Volts  
Current  
3.0 Amperes

**Features**

- ◇ UL Recognized File # E-96005
- ◇ Glass passivated junction
- ◇ Surge overload rating 60 amperes peak
- ◇ Low forward voltage drop
- ◇ High temperature soldering guaranteed:  
250°C / 10 seconds / 0.375" ( 9.5mm )  
lead length at 5 lbs. ( 2.3 Kg ) tension
- ◇ Small size, simple installation
- ◇ Leads solderable per MIL-STD-202,  
Method 208

**SB-3**



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	SB 305G	SB 310G	SB 320G	SB 340G	SB 360G	SB 380G	SB 3100G	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>A</sub> = 50°C	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	60							A
Maximum Instantaneous Forward Voltage @ 1.5A	1.0							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C	10 500							uA uA
Operating Temperature Range T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range T <sub>STG</sub>	-55 to +150							°C



## RATINGS AND CHARACTERISTIC CURVES (SB305G THRU SB3100G)

FIG. 1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

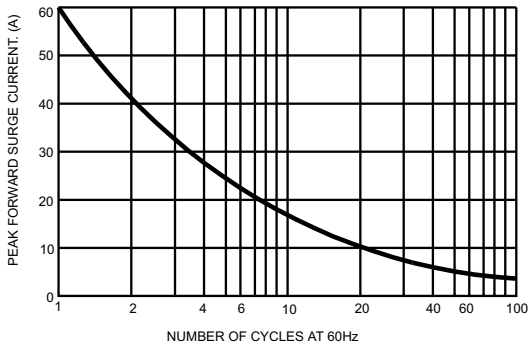


FIG. 2- MAXIMUM FORWARD CURRENT DERATING CURVE

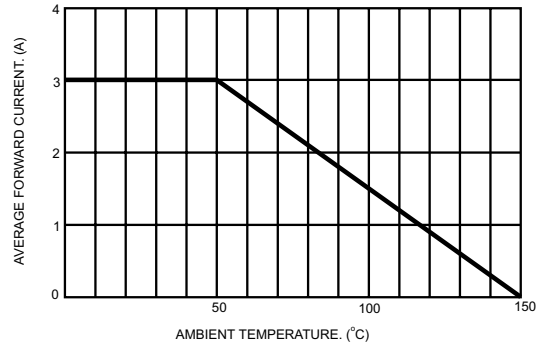


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

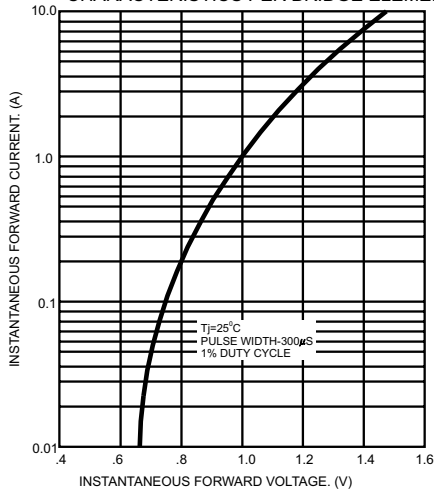


FIG. 4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

