TSC 9b

SB305G THRU SB3100G

Single Phase 3.0 AMPS. Glass Passivated Bridge Rectifiers

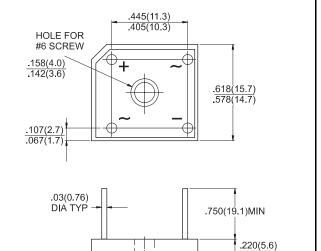


Voltage Range 50 to 1000 Volts Current 3.0 Amperes

<u>SB-3</u>

Features

- ♦ UL Recognized File # E-96005
- Glass passivated junction
- ♦ Surge overload rating 60 amperes peak
- ♦ Low forward voltage drop
- → High temperature soldering guaranteed: 260°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



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	Symbol	SB 305G	SB 310G	SB 320G	SB 340G	SB 360G	SB 380G	SB 3100G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$	I _(AV)	3.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	60							Α
Maximum Instantaneous Forward Voltage @ 1.5A	V_{F}	1.0							V
Maximum DC Reverse Current @ T _A =25℃	I _R 10							uA	
at Rated DC Blocking Voltage @ T _A =125℃					500				uA
Typical Thermal resistance (Note)	RθJC	10							% (M)
Operating Temperature Range	Τ _J	-55 to +150							${\mathbb C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}$

Note: Thermal Resistance from Junction to Case per Leg.



RATINGS AND CHARACTERISTIC CURVES (SB305G THRU SB3100G)

