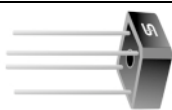




SB6G, SBT6G SERIES

Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers



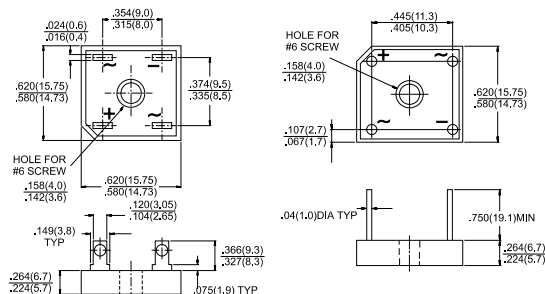
Voltage Range
50 to 1000 Volts
Current
6.0 Amperes

SBT-6

SB-6

Features

- ✧ UL Recognized File # E-96005
- ✧ Glass passivated junction
- ✧ Surge overload rating 175 amperes peak
- ✧ Low forward voltage drop
- ✧ Mounting position: Any
- ✧ 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



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	SB601G	SB602G	SB603G	SB604G	SB605G	SB606G	SB607G	Units
	SBT 601G	SBT 602G	SBT 603G	SBT 604G	SBT 605G	SBT 606G	SBT 607G	
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 _A = 50°C	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	175							A
Maximum Instantaneous Forward Voltage @ 3.0A	1.1							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	10 500							uA uA
Typical Thermal resistance (Note 1) R _{θJA} (Note 2) R _{θJL}	22 7.3							°C/W
Operating Temperature Range T _J	-55 to +150							°C
Storage Temperature Range T _{STG}	-55 to +150							°C

Note: 1. Unit Mounted on P.C.B. at 0.375" (9.5mm) Lead Length with 0.5 x 0.5" (12 x 12mm) Copper Pads.

2. Unit Mounted on 5.5 x 6.0 x 0.11" thick (14 x 15 x 0.3cm) Al. Plate.

RATINGS AND CHARACTERISTIC CURVES (SB601G THRU SB607G) SBT601G SBT607G

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

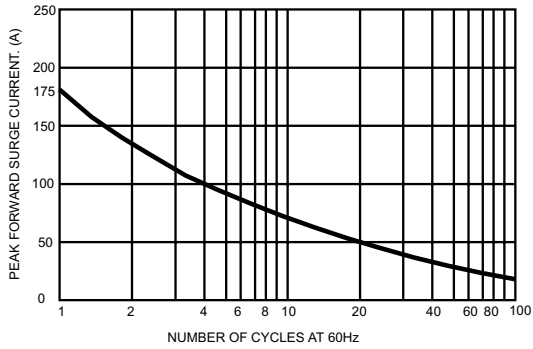


FIG.2- TYPICAL FORWARD CURRENT DERATING CURVE

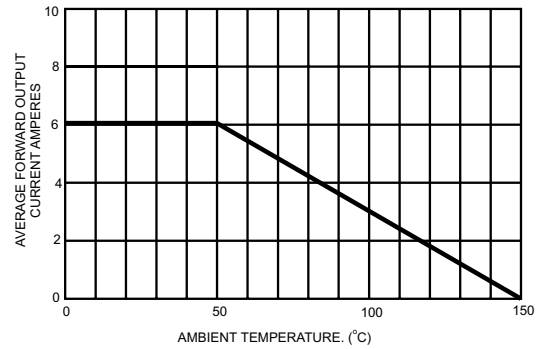


FIG.3- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

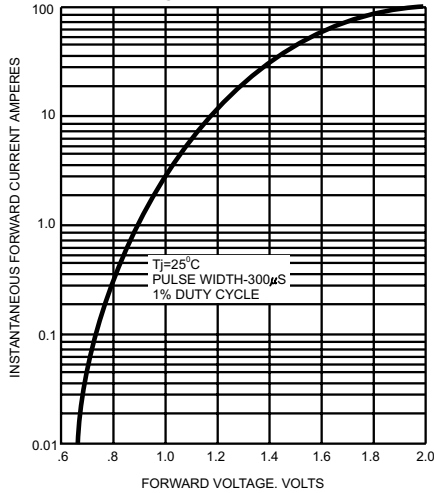


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

