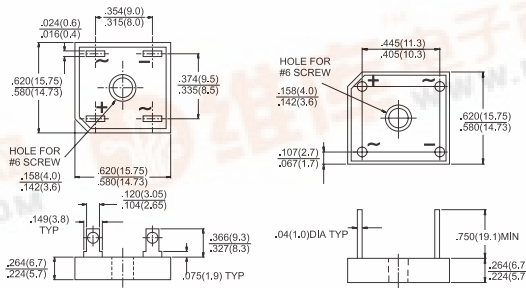


 SB6, SBT6 SERIES Single Phase 6.0 AMPS. Silicon Bridge Rectifiers									
 Voltage Range 50 to 1000 Volts Current 6.0 Amperes									
Features - UL Recognized File # E-96005 - Surge overload rating 200 amperes peak - Low forward voltage drop - High temperature soldering guaranteed: 260°C / 10 seconds / 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	SBT-6 SB-6  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	SB601	SB602	SB603	SB604	SB605	SB606	SB607	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
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°C	I_(AV)	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	200							A
Maximum Instantaneous Forward Voltage @ 3.0A	V_F	1.0							V
Maximum DC Reverse Current @ T_A=25°C at Rated DC Blocking Voltage @ T_A=100°C	I_R	10 500							uA uA
Typical Thermal Resistance (Note 1) (Note 2)	Rθ_A Rθ_C	22 7.3							°C/W
Operating Temperature Range	T_J	-55 to +125							°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.

RATINGS AND CHARACTERISTIC CURVES (SB₆₀₁ THRU SB₆₀₇)

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

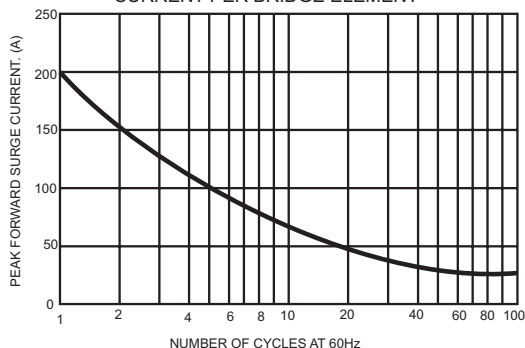


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

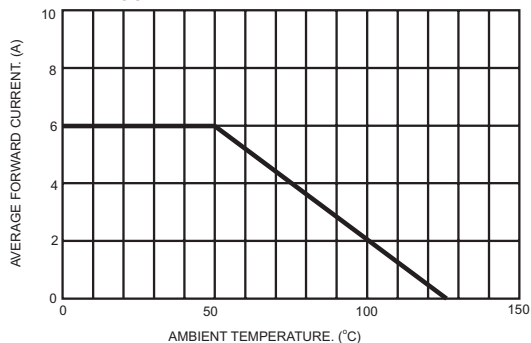


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

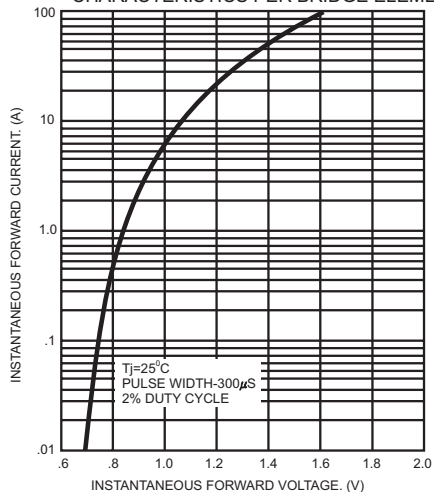


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

