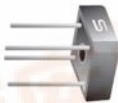
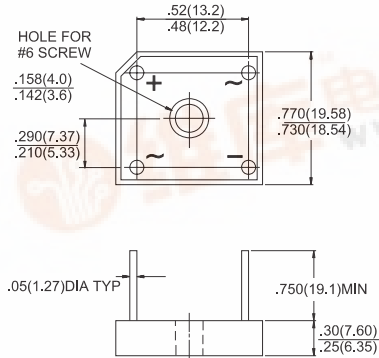


TSC SB	SB101 THRU SB107 Single Phase 10 AMPS. Silicon Bridge Rectifiers									
				Voltage Range 50 to 1000 Volts Current 10.0 Amperes						
Features ◇ UL Recognized File # E-96005 ◇ Surge overload rating 200 amperes peak ◇ Low forward voltage drop ◇ High temperature soldering guaranteed: 260°C / 10 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				SB-10  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 101	SB 102	SB 103	SB 104	SB 105	SB 106	SB 107	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)	10							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	300							A
Maximum Instantaneous Forward Voltage @ 5.0A		V _F	1.1							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)		Rθ _{JC}	5							°C/W
Operating Temperature Range		T _J	-55 to +125							°C
Storage Temperature Range		T _{STG}	-55 to +150							°C

Note: Thermal Resistance from Junction to Case per Leg.

RATINGS AND CHARACTERISTIC CURVES (SB101 THRU SB107)

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

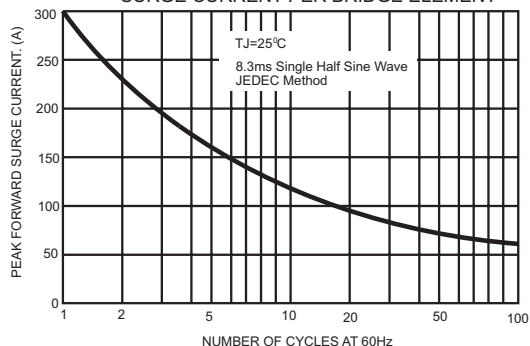


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

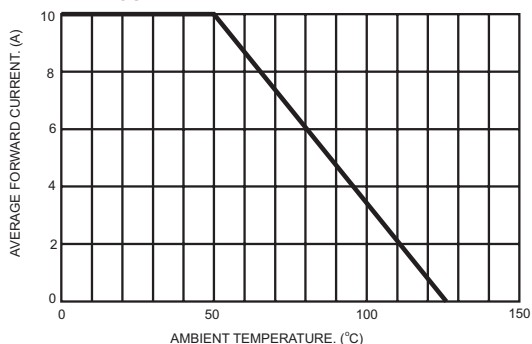


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

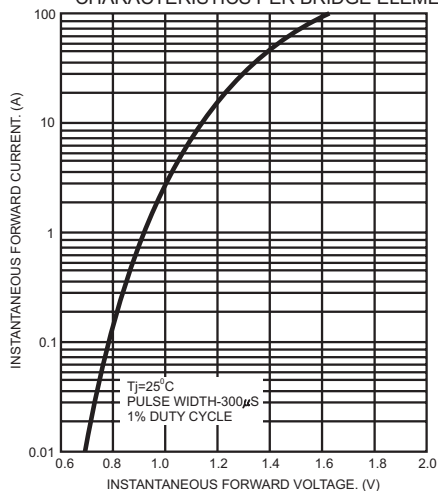


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

