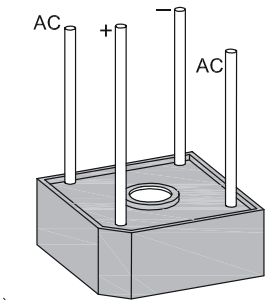
6.0A Single-Phase Silicon Bridge Rectifier



TB6

Features

- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds/5 lbs. (2.3kg) tension
- RoHS Compliant

Mechanical Data

Case:	Molded plastic body
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Lead solderable per MIL-STD-202E method 208C
Polarity:	Marked on case
Weight:	3.8 grams

Maximum Ratings & Electrical Characteristics (*$T_{Ambient}$=25ºC unless noted*)

Symbol	Description	TB605	TB61	TB62	TB64	TB66	TB68	TB610	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
$I_{O(AV)}$	Maximum Average Forward Rectified Current	6.0							A	T_A = 50 °C
I_{FSM}	Peak Forward Surge Current	125							A	Note1
V_F	Maximum Forward Voltage	1.0							V	I_O=3A
I_R	Maximum Reverse Current at Rated DC Blocking Voltage per element	5.0							uA	T_A = 25 °C
		500								T_A =100 °C
C_J	Typical junction capacitance	80							pF	Note 2
T_J	Operating Temperature Range	-55 to +125							° C	
T_{STG}	Storage Temperature Range	-55 to +150							° C	

NOTES:

1. 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)
2. Measured at 1MHZ and applied 4vDC reverse voltage

Typical Characteristics Curves

Fig.1- Derating Curve for Output Rectified Current

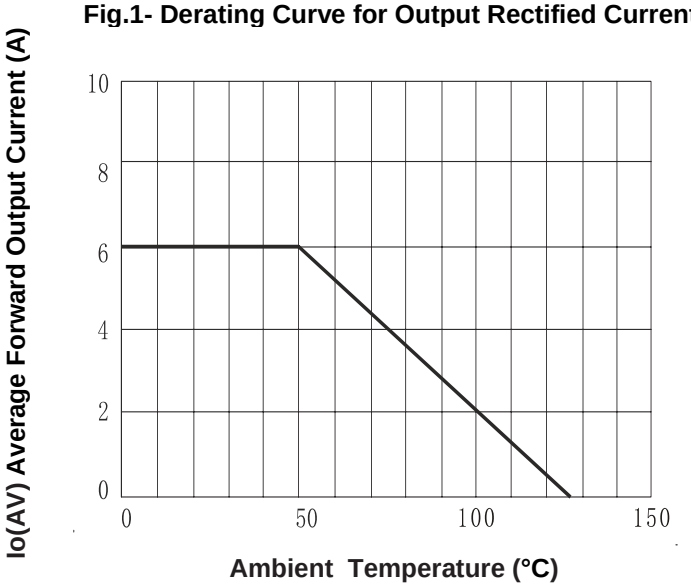


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

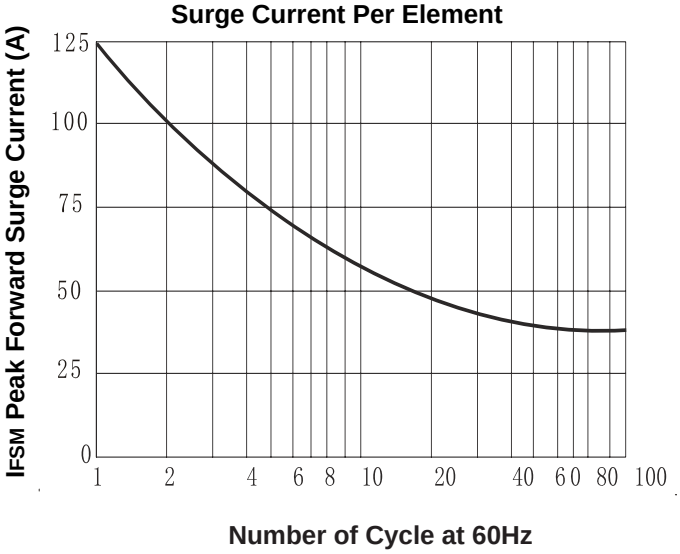


Fig.3- Typical Forward Characteristics Per Bridge Element

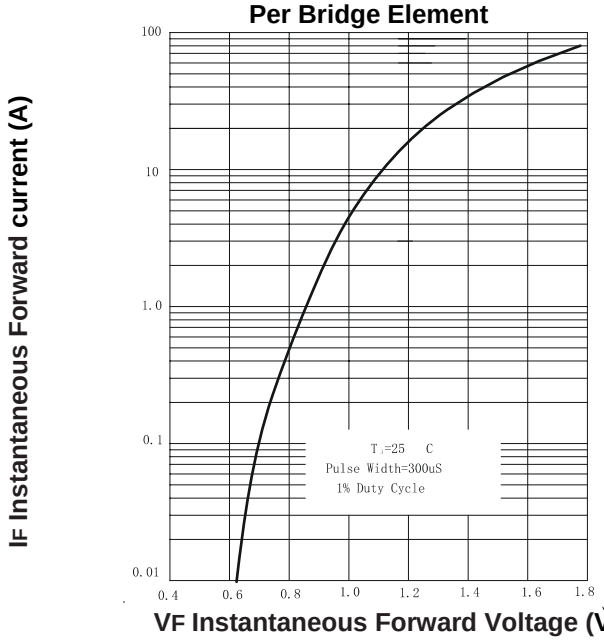


Fig.4- Typical Reverse Characteristics Per Bridge Element

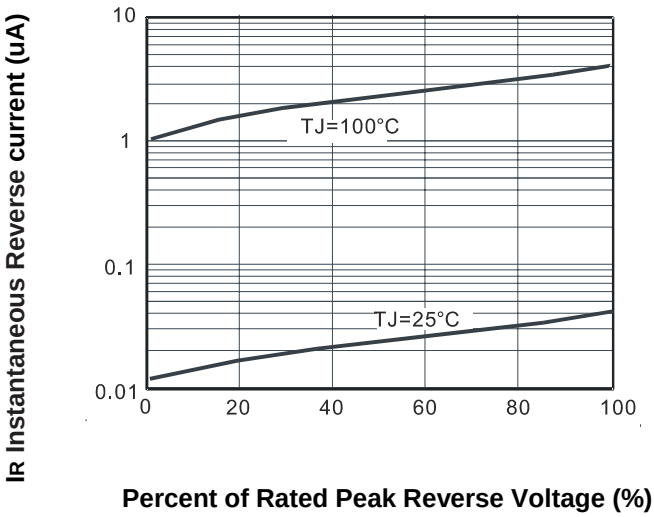
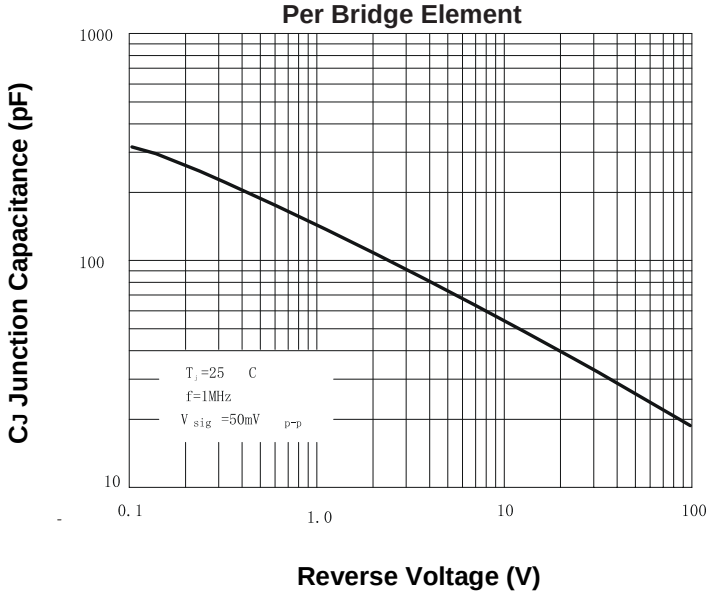
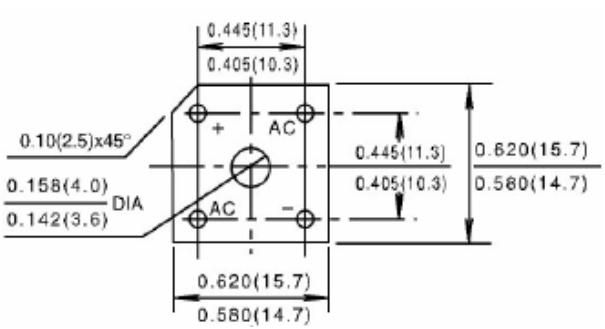


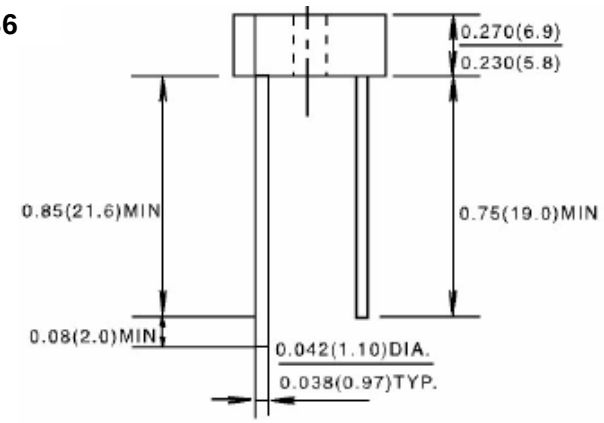
Fig.5- Typical Junction Capacitance Per Bridge Element



Dimensions in inch (mm)



TB6



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