



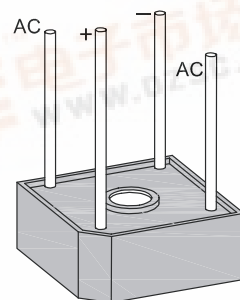
6.0A SINGLE-PHASE SILICON BRIDGE RECTIFIER

TB605 - TB610

6.0A Single-Phase Silicon Bridge Rectifier

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



TB6



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 ($T_{Ambient}=25^{\circ}\text{C}$ unless noted)

Symbol	Description	TB605	TB61	TB62	TB64	TB66	TB68	TB610	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Io(AV)	Maximum Average Forward Rectified Current	6.0							A	TA = 50 °C
IFSM	Peak Forward Surge Current	125							A	Note1
VF	Maximum Forward Voltage	1.0							V	Io=3A
IR	Maximum Reverse Current at Rated DC Blocking Voltage per element	5.0							uA	TA = 25 °C
		500								TA =100 °C
CJ	Typical junction capacitance	80							pF	Note 2
TJ	Operating Temperature Range	-55 to +125							° C	
TSTG	Storage Temperature Range	-55 to +150							° C	

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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

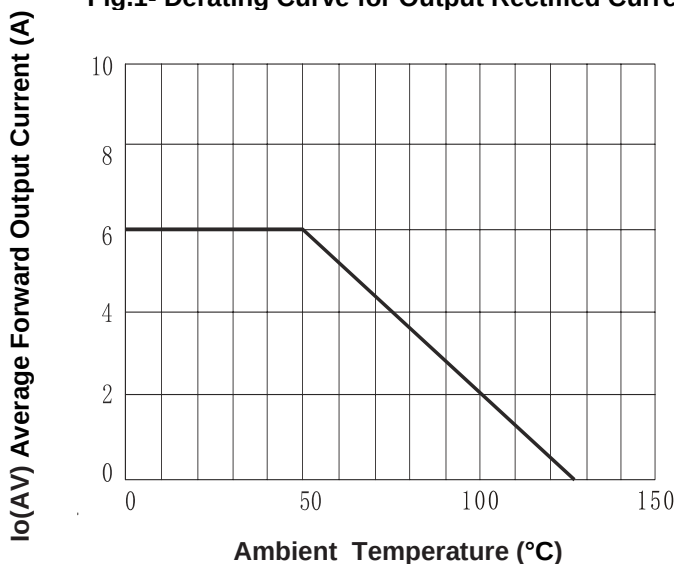


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

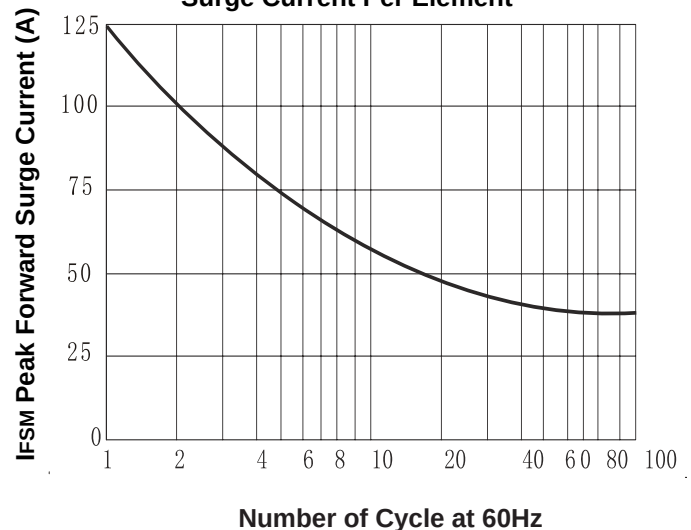


Fig.3- Typical Forward Characteristics Per Bridge Element

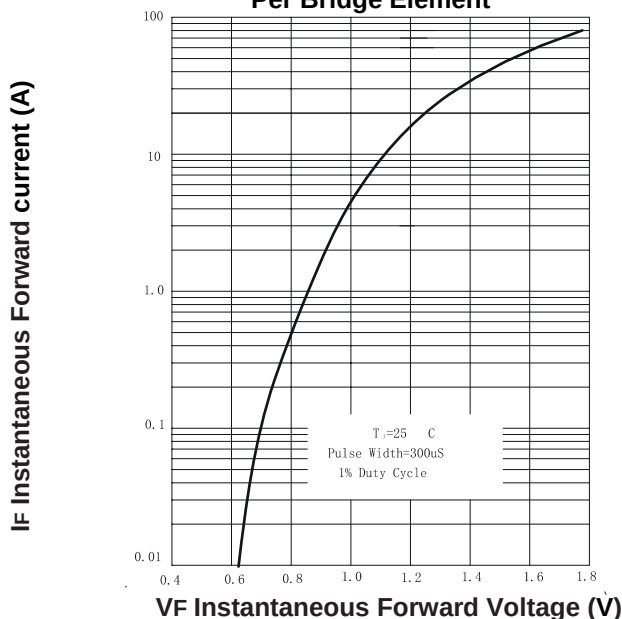
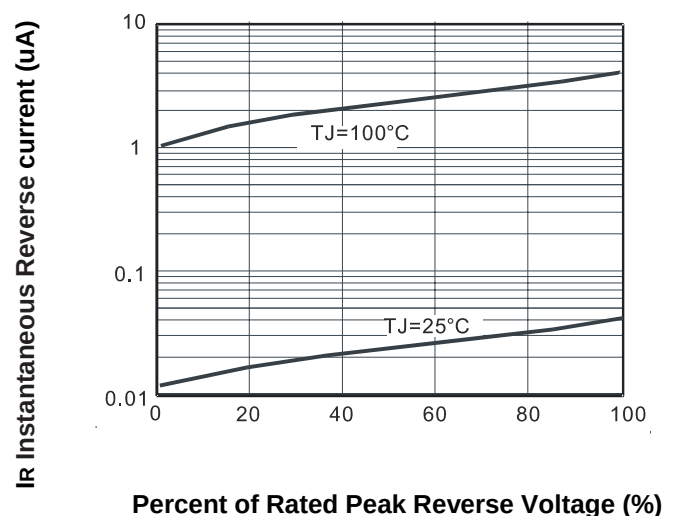


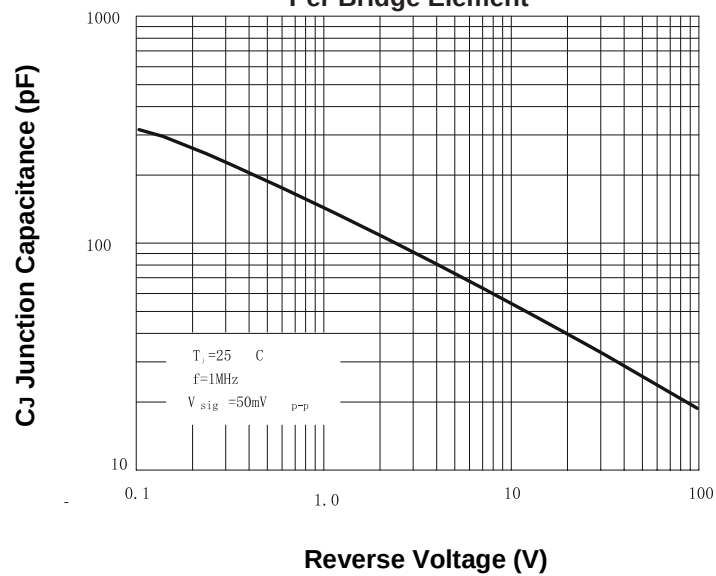
Fig.4- Typical Reverse Characteristics Per Bridge Element



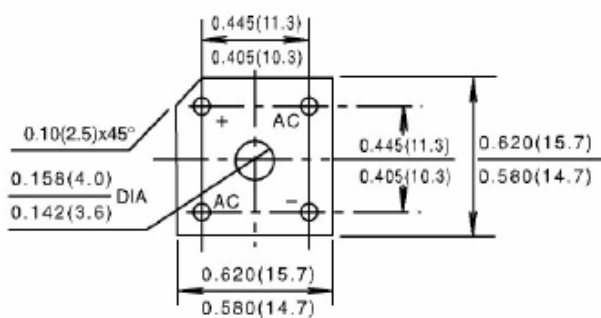
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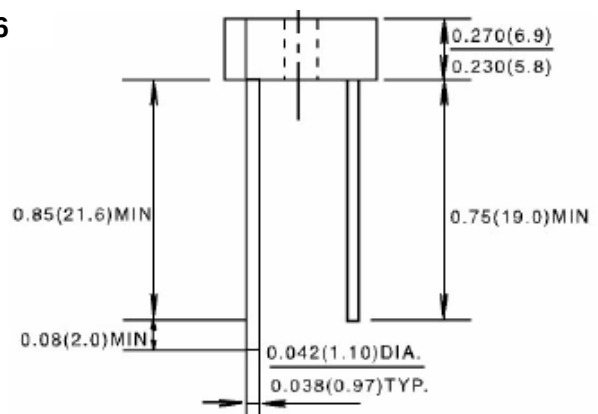
Fig.5- Typical Junction Capacitance
Per Bridge Element



Dimensions in inch (mm)



TB6



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