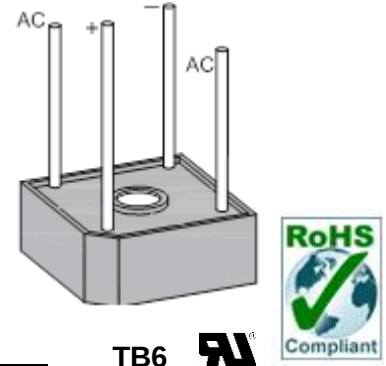


6.0A Single-Phase Silicon Bridge Rectifier (Obsoleted)

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

6.0A Single-Phase Silicon Bridge Rectifier

TB605 - TB610

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

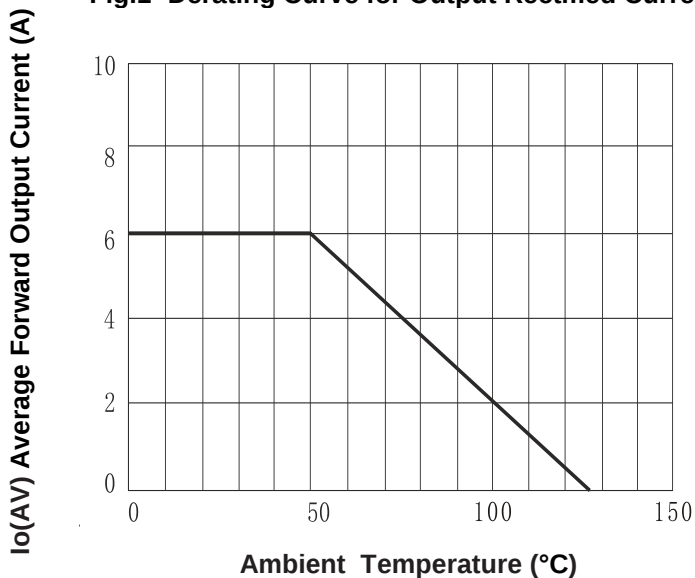


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

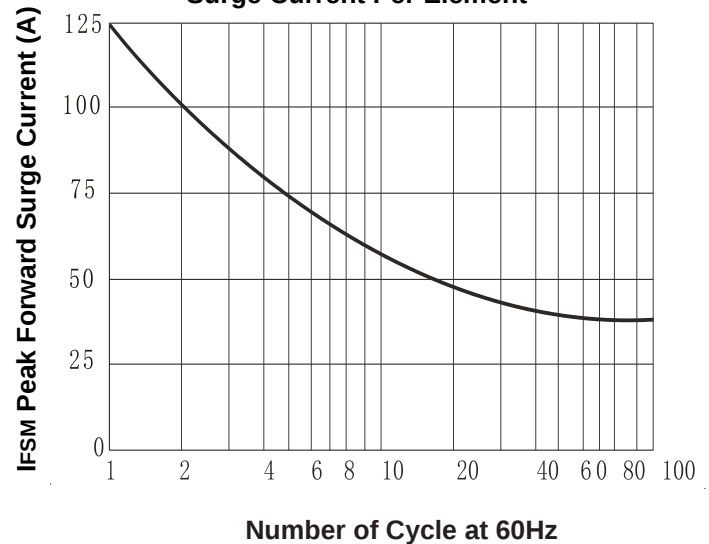


Fig.3- Typical Forward Characteristics Per Bridge Element

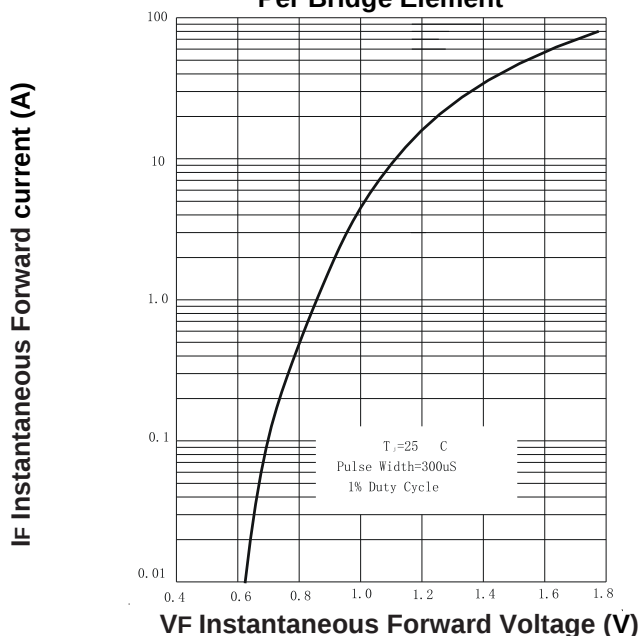
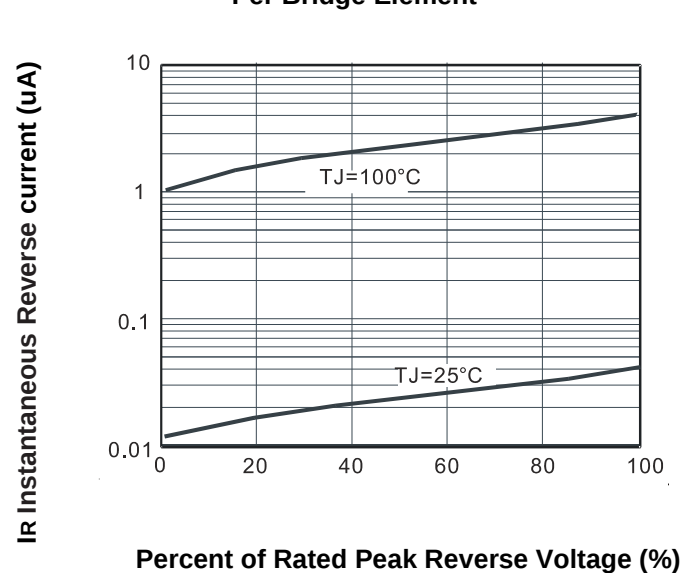


Fig.4- Typical Reverse Characteristics Per Bridge Element



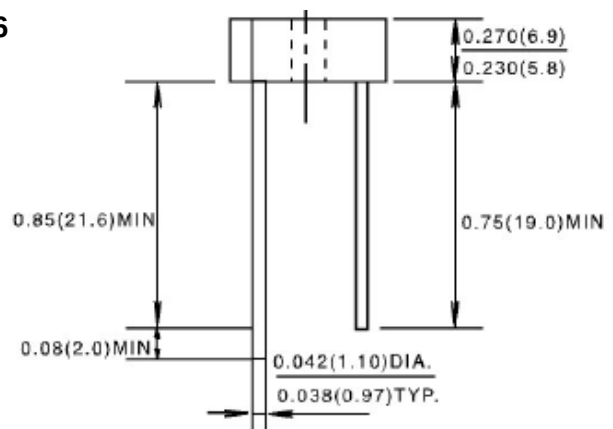
TB605 - TB610

C_j Junction Capacitance (pF)

Reverse Voltage (V)

$T_j = 25^\circ\text{C}$
 $f = 1\text{MHz}$
 $V_{sig} = 50\text{mV}$
 μ_p

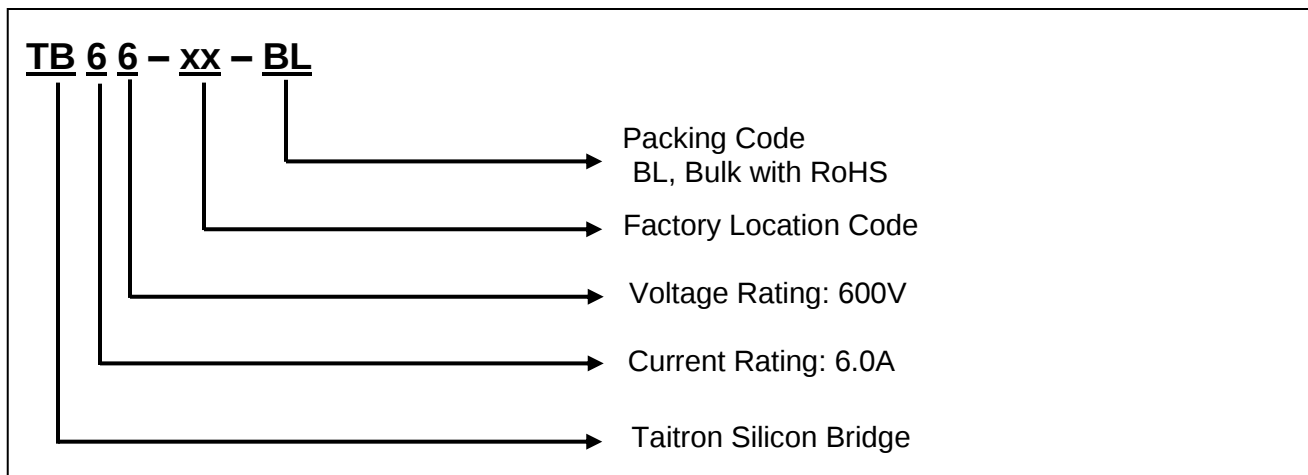
Figure 10 is a technical drawing of a square flange with four mounting holes. The drawing shows dimensions in both inches and millimeters. The overall width and height are 0.620 inches (15.7 mm) and 0.580 inches (14.7 mm) respectively. The mounting holes have a diameter of 0.142 inches (3.6 mm) and are spaced 0.405 inches (10.3 mm) apart. The center-to-center distance between the mounting holes is 0.445 inches (11.3 mm). The flange has a 0.10 inch (2.5 mm) x 45 degree chamfer on the corners. The mounting holes are labeled 'AC' and 'DIA'.



6.0A Single-Phase Silicon Bridge Rectifier

TB605 - TB610

How to Order



How to contact us

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