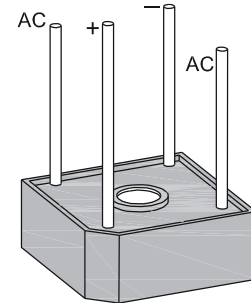


6.0A Single-Phase Silicon Bridge Rectifier

Features

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



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 ($T_{Ambient}=25^{\circ}C$ 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 | $T_A = 50^{\circ}C$ |
| IFSM | Peak Forward Surge Current | 125 | | | | | | | A | Note1 |
| VF | Maximum Forward Voltage | 1.0 | | | | | | | V | $I_O=3A$ |
| IR | Maximum Reverse Current at Rated DC Blocking Voltage per element | 5.0 | | | | | | | uA | $T_A = 25^{\circ}C$ |
| | | 500 | | | | | | | | $T_A = 100^{\circ}C$ |
| CJ | Typical junction capacitance | 80 | | | | | | | pF | Note 2 |
| TJ | Operating Temperature Range | -55 to +125 | | | | | | | $^{\circ}C$ | |
| TSTG | Storage Temperature Range | -55 to +150 | | | | | | | $^{\circ}C$ | |

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

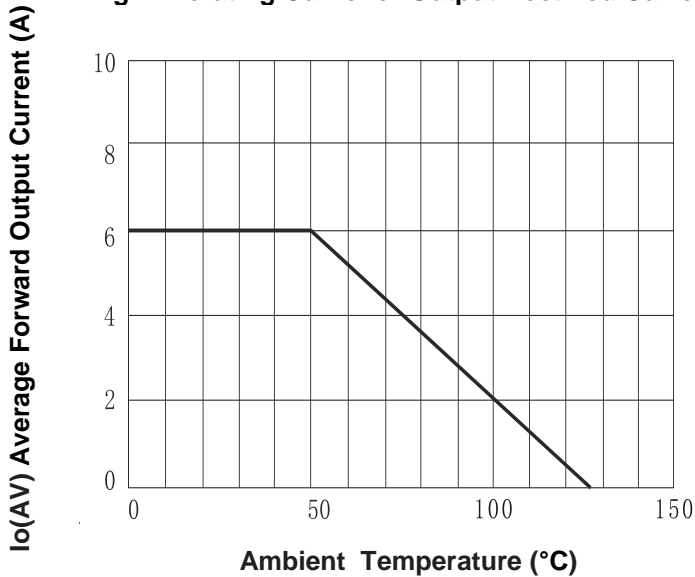


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

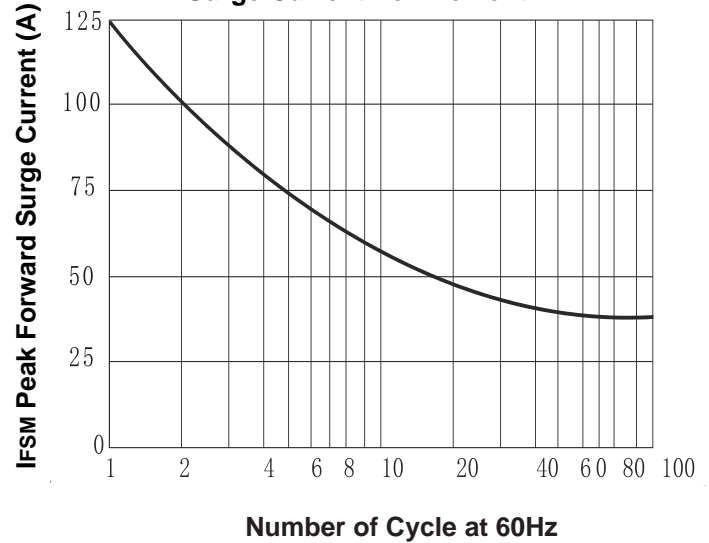


Fig.3- Typical Forward Characteristics Per Bridge Element

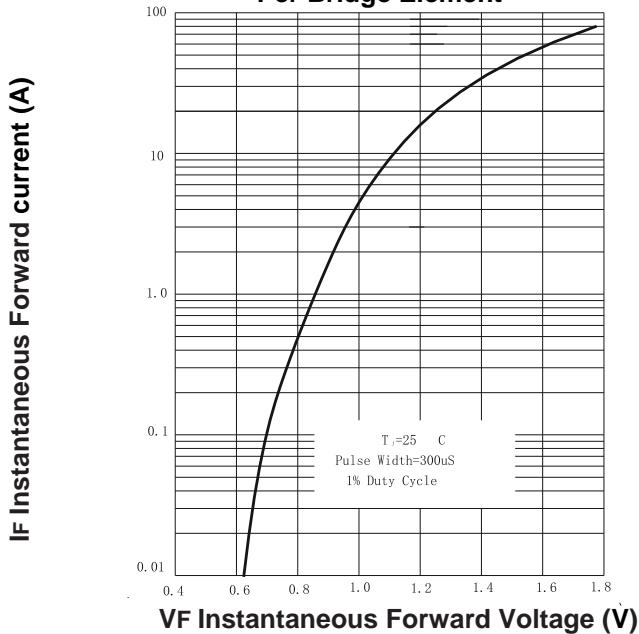
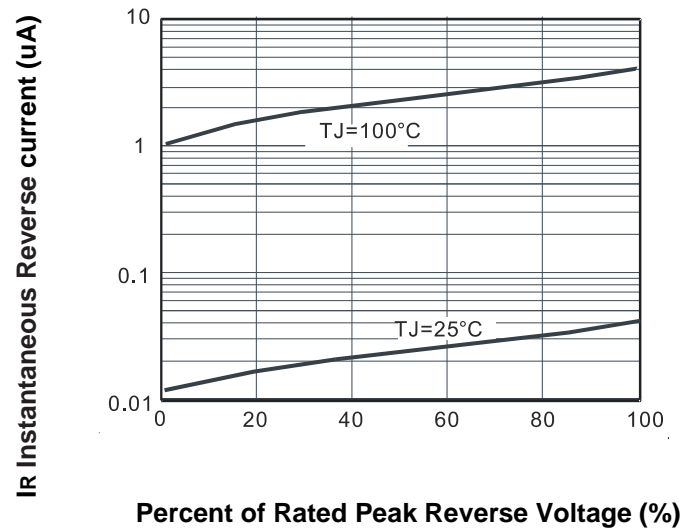


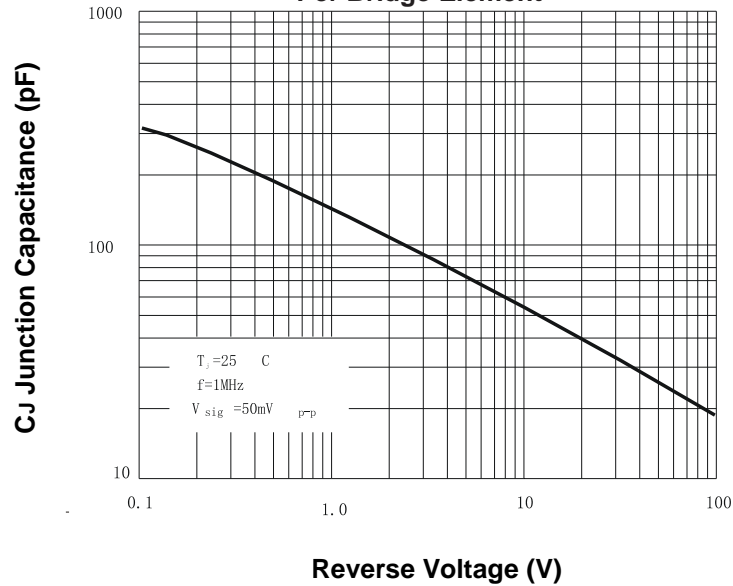
Fig.4- Typical Reverse Characteristics Per Bridge Element



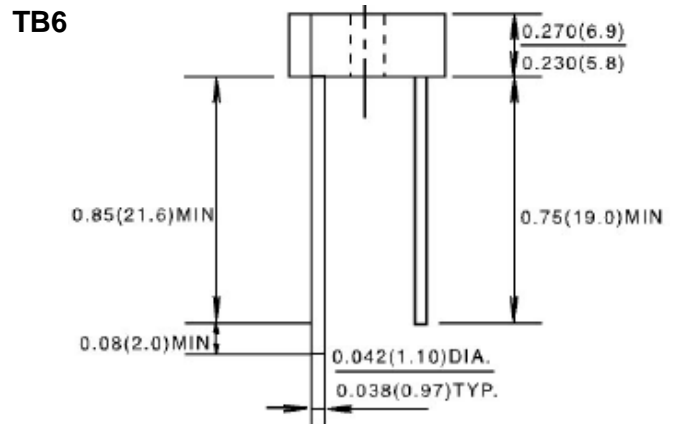
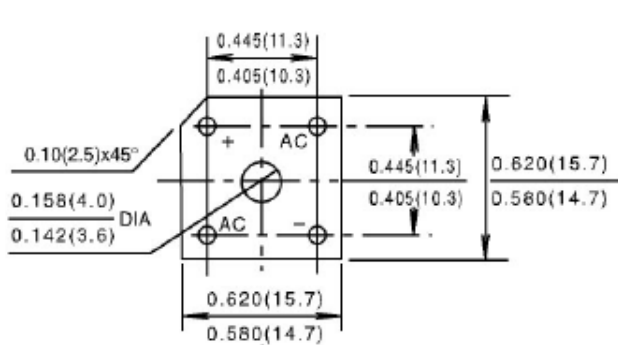
6.0A Single-Phase Silicon Bridge Rectifier

TB605 - TB610

Fig.5- Typical Junction Capacitance Per Bridge Element



Dimensions in inch (mm)



6.0A Single-Phase Silicon Bridge Rectifier

TB605 - TB610

How to contact us

USA HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

SUITE 1503, METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027