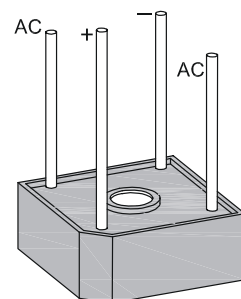


10.0A Single-Phase Silicon Bridge Rectifier

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

Symbol	Description	TB1005M	TB101M	TB102M	TB104M	TB106M	TB108M	TB1010M	Unit
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 @T _A = 50°C	10.0							A
I_{FSM}	Peak Forward Surge Current (Note)	150							A
V_F	Maximum Forward Voltage @I _O =5A	1.1							V
I_R	Maximum Reverse Current at Rated DC Blocking Voltage per element	5.0					T _A = 25 °C		uA
		500					T _A =100 °C		
T_J	Operating Temperature Range	-55 to +125							° C
T_{STG}	Storage Temperature Range	-55 to +150							° C

NOTE:

8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)

10.0A Single-Phase Silicon Bridge Rectifier

TB1005M - TB1010M

Typical Characteristics Curves

Fig.1- Derating Curve for Output Rectified Current

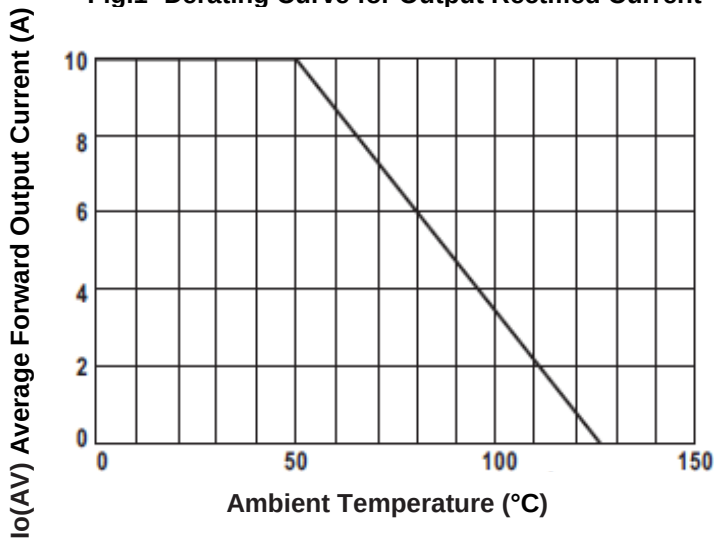


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

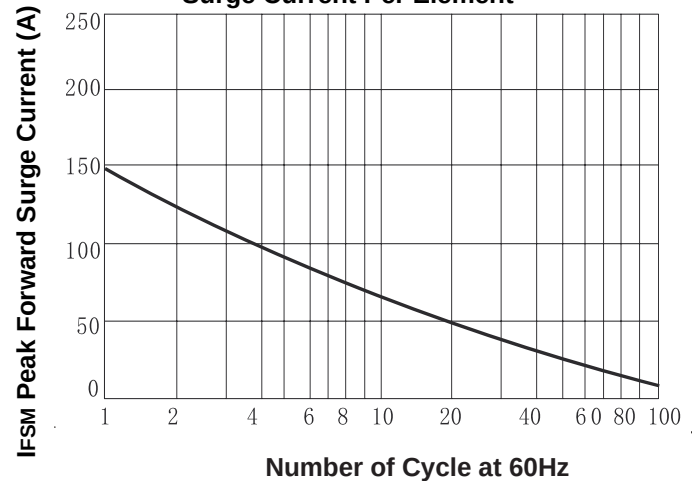


Fig.3- Typical Forward Characteristics Per Bridge Element

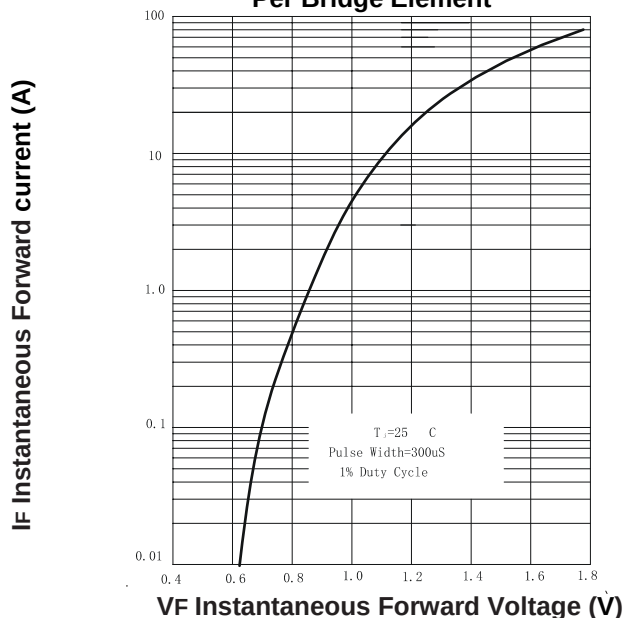
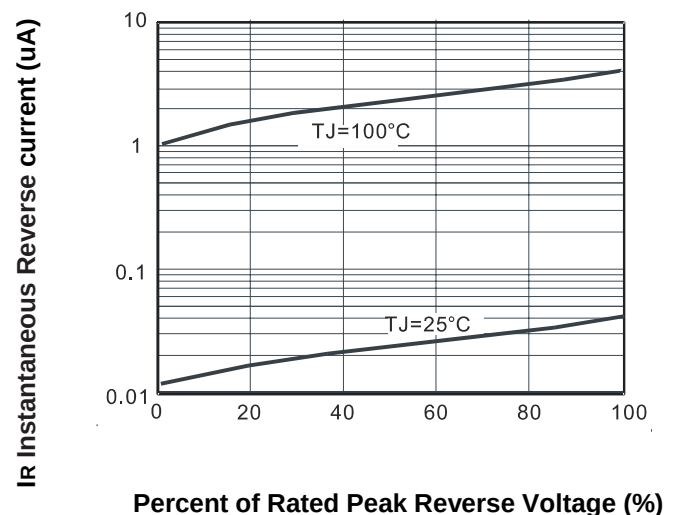


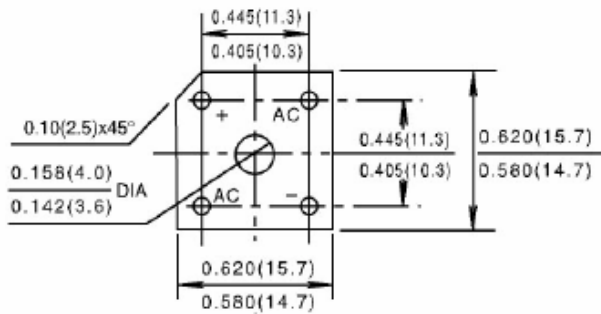
Fig.4- Typical Reverse Characteristics Per Bridge Element



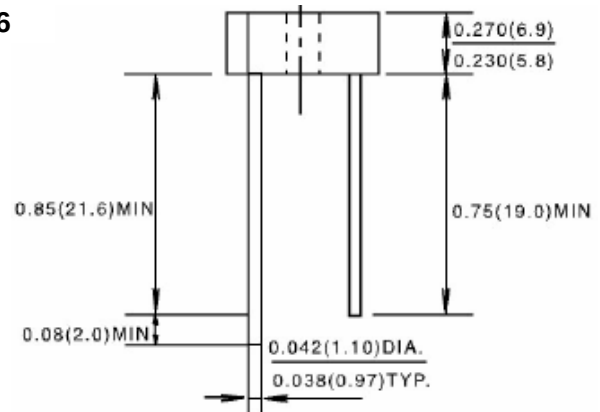
10.0A Single-Phase Silicon Bridge Rectifier

TB1005M - TB1010M

Dimensions in inch (mm)



TB6



10.0A Single-Phase Silicon Bridge Rectifier

TB1005M - TB1010M

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