



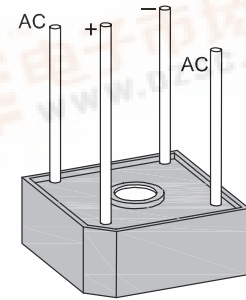
# 3.0A SINGLE-PHASE SILICON BRIDGE RECTIFIER

TB305 - TB3100

## 3.0A Single-Phase Silicon Bridge Rectifier

### Features

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



TB3



### Mechanical Data

Case:	Molded plastic body
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Lead solderable per MIL-STD-202E, Method 208C
Polarity:	Hole thru for #6 screw
Weight:	0.093 ounce, 2.62 grams

### Maximum Ratings & Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted)

Symbol	Description	TB305	TB31	TB32	TB34	TB36	TB38	TB310	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	3.0								A	TA=50°C
IFSM	Peak Forward Surge Current	60								A	Note
VF	Maximum Forward Voltage	1.0								V	Io=1.5A
IR	Maximum Reverse Current at Rated DC Blocking Voltage per element	5.0								uA	TA = 25 °C
		100									TA = 100 °C
TJ	Operating Temperature Range	-55 to +125								°C	
TSTG	Storage Temperature Range	-55 to +150								°C	

### Note:

1. 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)



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## Typical Characteristics Curves

Fig.1- Derating Curve for Output Rectified Current

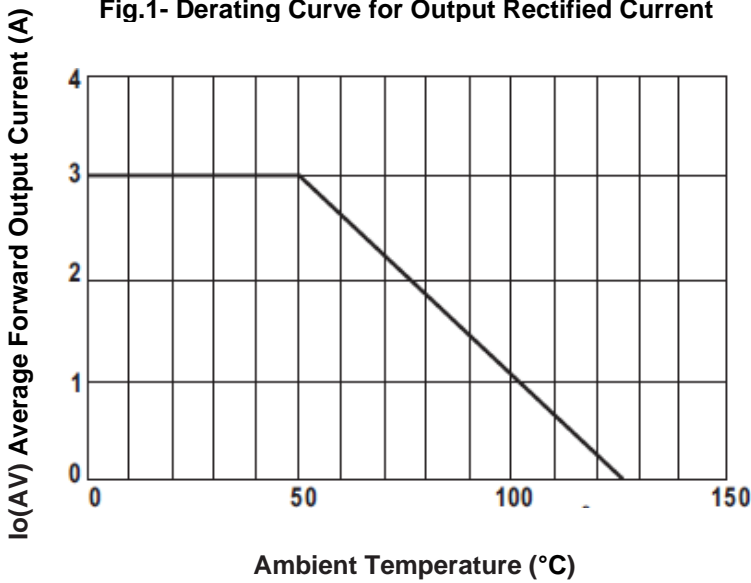


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

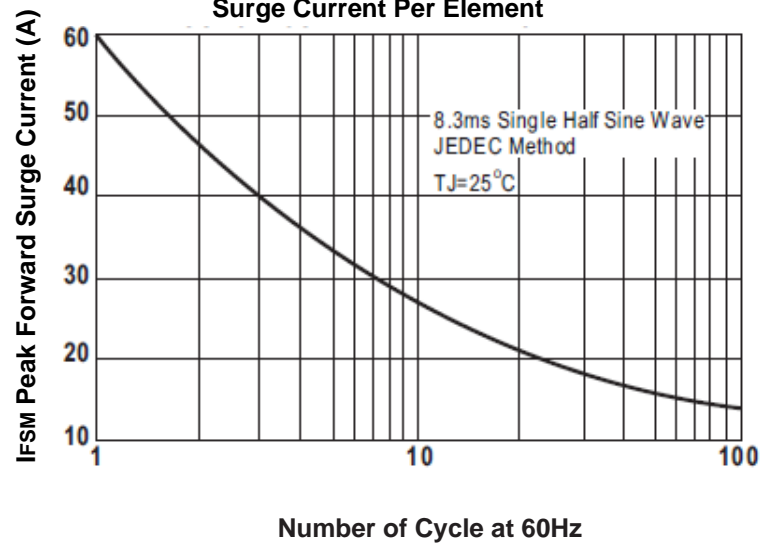


Fig.3- Typical Forward Characteristics Per Bridge Element

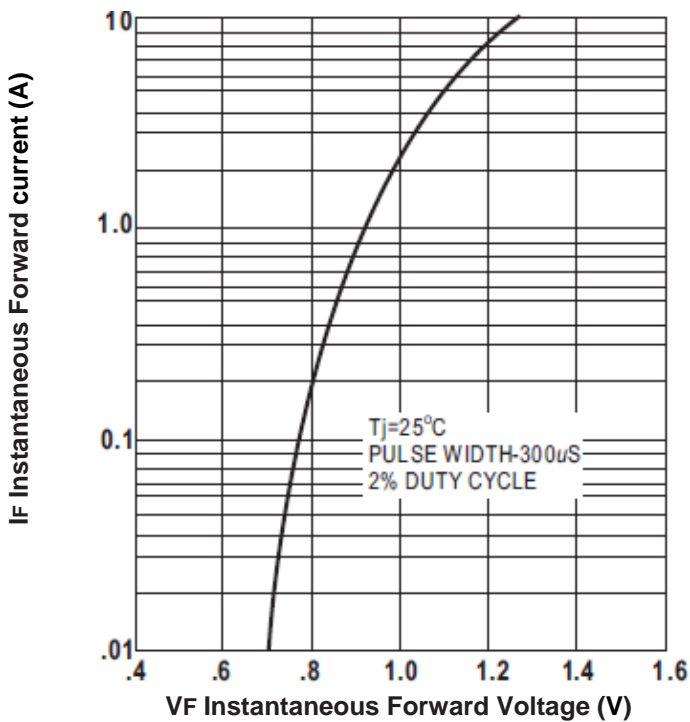
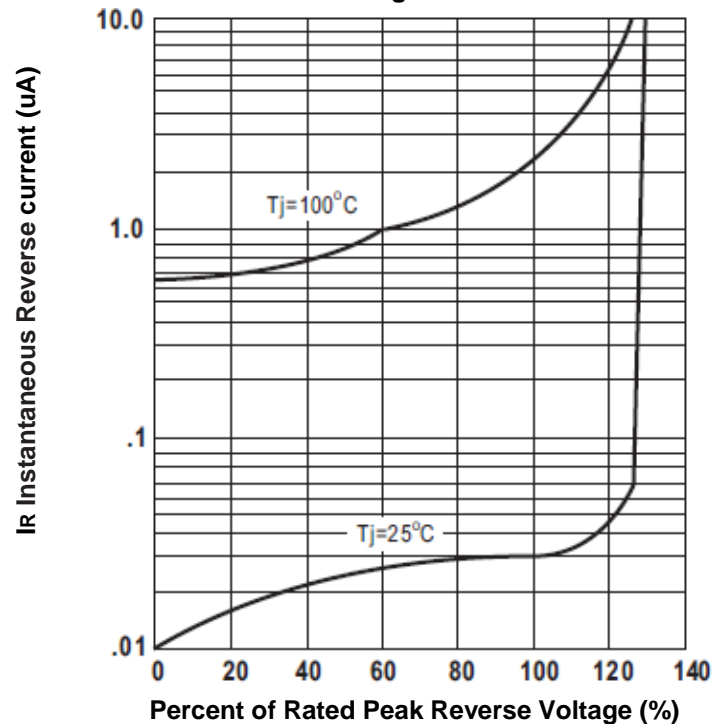


Fig.4- Typical Reverse Characteristics Per Bridge Element

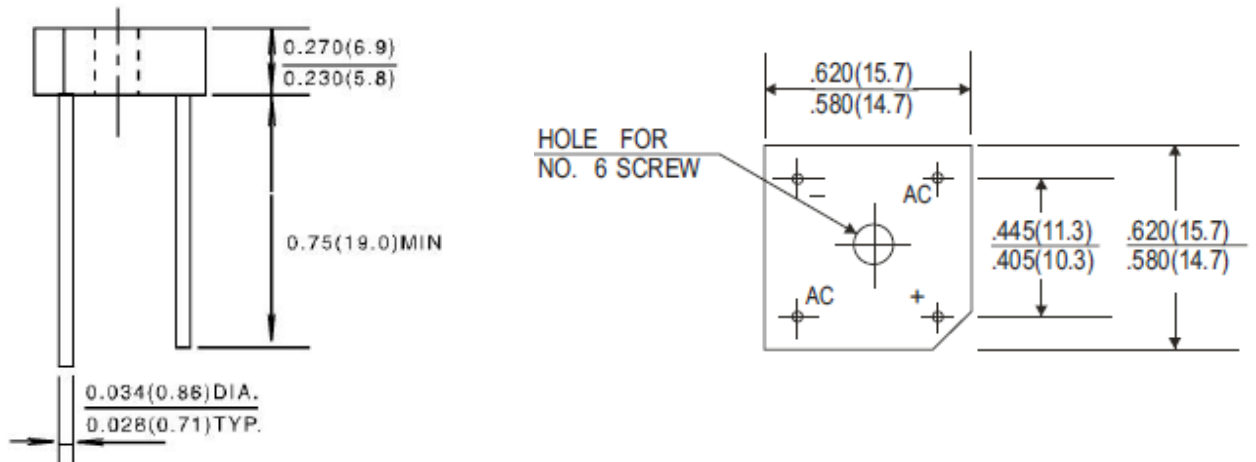


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Dimensions in inch (mm)

TB3



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