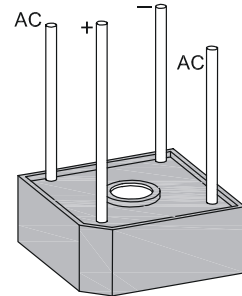


3.0A Single-Phase Silicon Bridge Rectifier

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)

3.0A Single-Phase Silicon Bridge Rectifier

TB305 - TB310

Typical Characteristics Curves

Fig.1- Derating Curve for Output Rectified Current

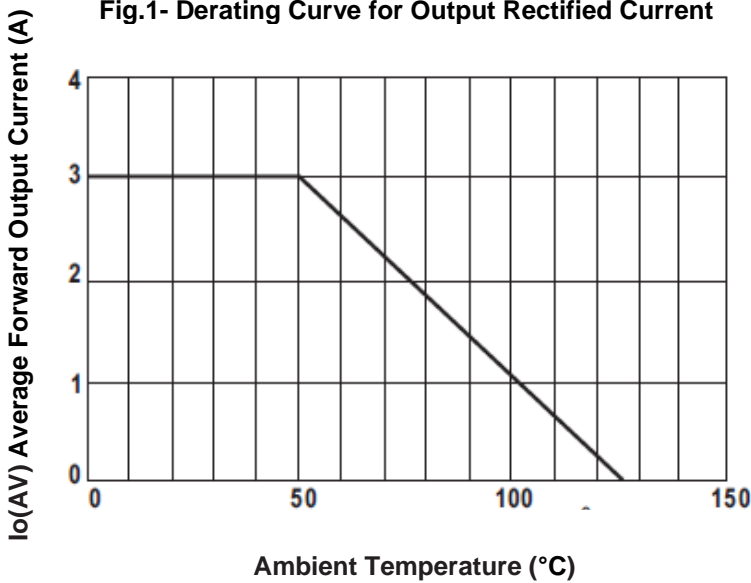


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

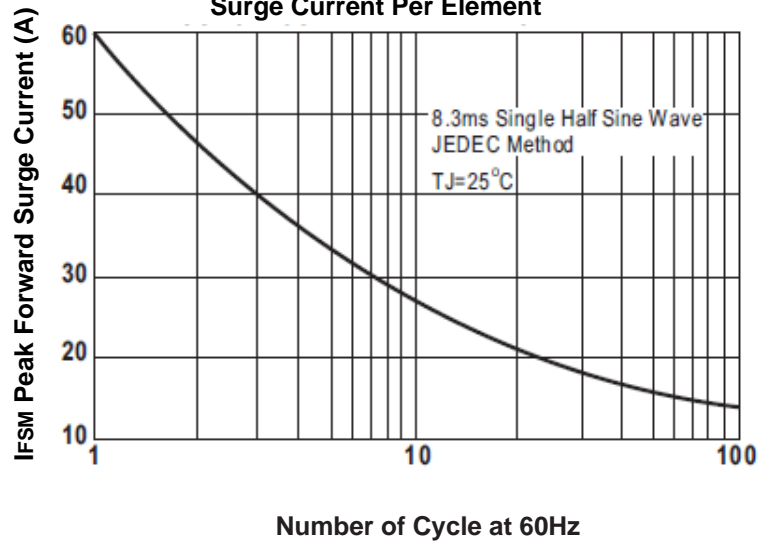


Fig.3- Typical Forward Characteristics Per Bridge Element

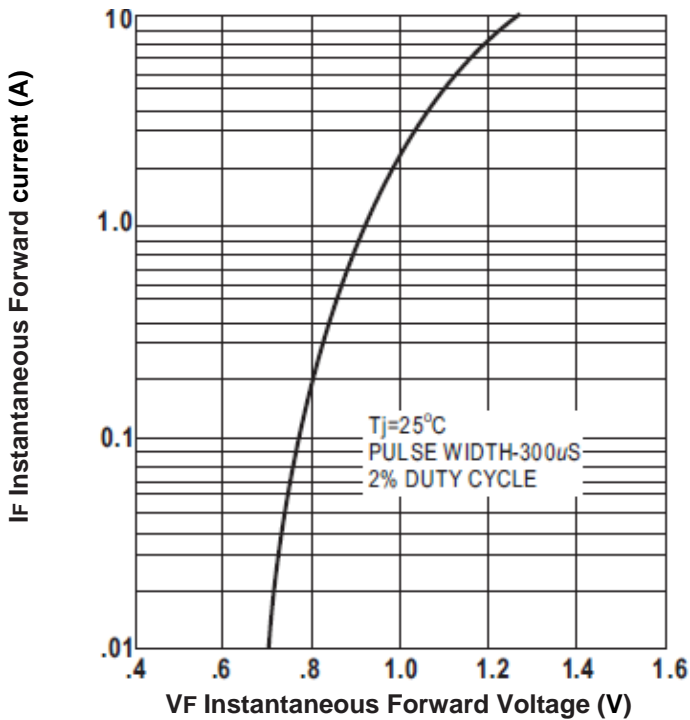
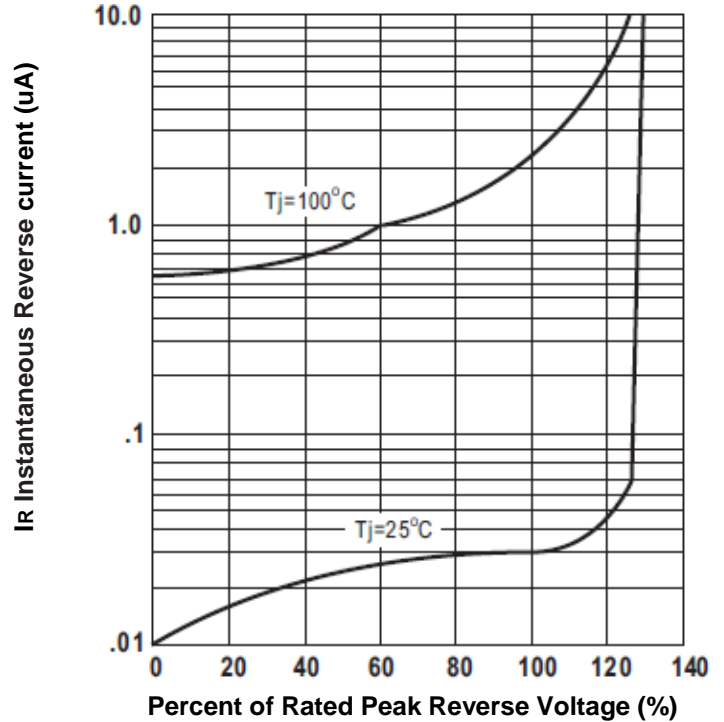


Fig.4- Typical Reverse Characteristics Per Bridge Element

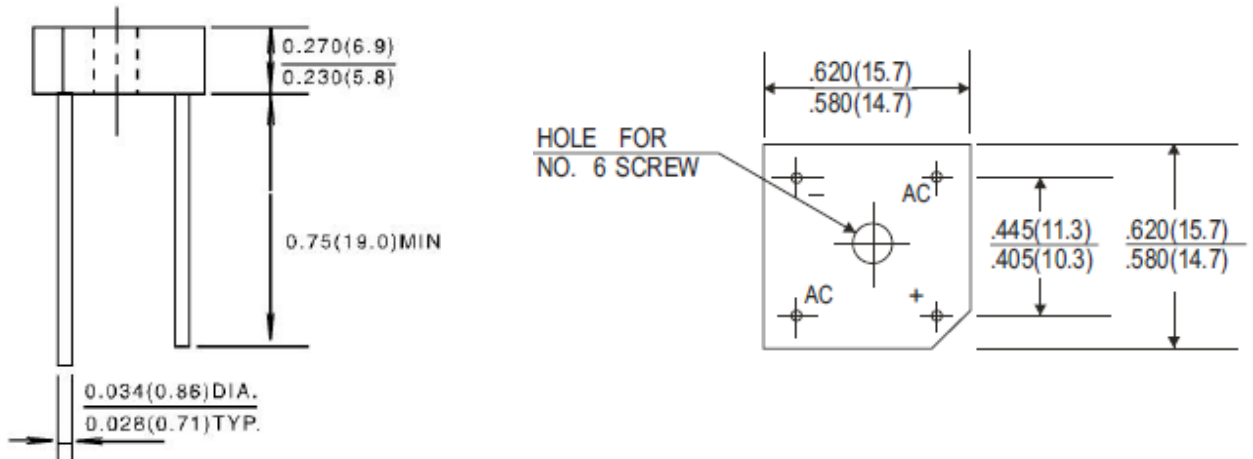


3.0A Single-Phase Silicon Bridge Rectifier

TB305 - TB310

Dimensions in inch (mm)

TB3



3.0A Single-Phase Silicon Bridge Rectifier

TB305 - TB310

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