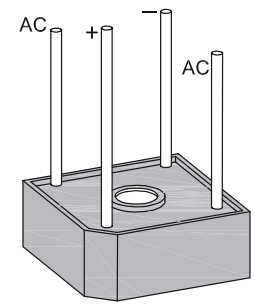


**6.0A Glass Passivated Bridge Rectifier**

**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



**Mechanical Data**

<b>Case:</b>	Molded plastic body
<b>Epoxy:</b>	Meets UL 94V-0 flammability rating
<b>Terminals:</b>	Lead solderable per MIL-STD-202E method 208C
<b>Polarity:</b>	Marked on case
<b>Weight:</b>	3.8 grams

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

Symbol	Description	TB605G	TB61G	TB62G	TB64G	TB66G	TB68G	TB610G	Unit	Conditions
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>IO(AV)</b>	Maximum Average Forward Rectified Current	6.0							A	$T_A = 50^{\circ}C$
<b>IFSM</b>	Peak Forward Surge Current	175							A	Note1
<b>VF</b>	Maximum Forward Voltage	1.0							V	$I_O=3A$
<b>IR</b>	Maximum Reverse Current at Rated DC Blocking Voltage per element	5.0							uA	$T_A = 25^{\circ}C$
		500								$T_A = 125^{\circ}C$
<b>RθJA</b>	Typical thermal resistance, Junction to Ambient	22							° C/W	Note2
<b>TJ</b>	Operating Temperature Range	-55 to +150							° C	
<b>TSTG</b>	Storage Temperature Range	-55 to +150							° C	

# 6.0A Glass Passivated Bridge Rectifier

TB605G - TB610G

**NOTES:**

1. 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)
2. Unit Mounted on P.C.B. at 0.375" (9.5mm) Lead Length with 0.5" x 0.5" (12mm x 12mm) Copper Pads.

## Typical Characteristics Curves

Fig.1- Derating Curve for Output Rectified Current

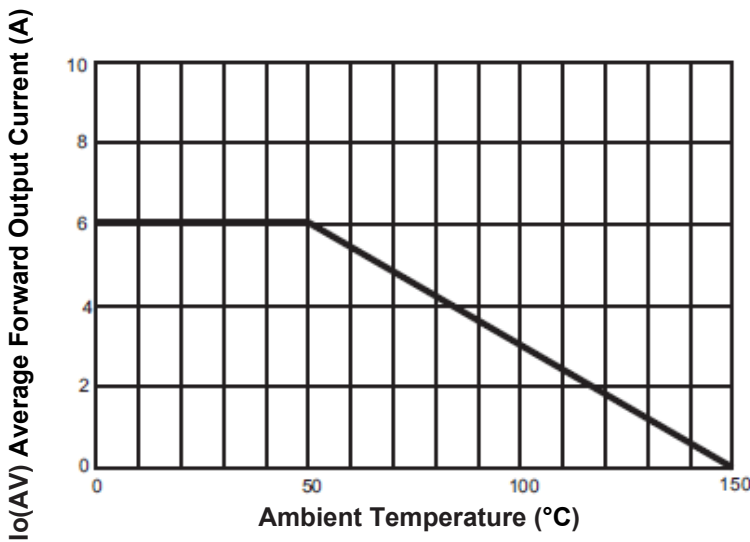


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element

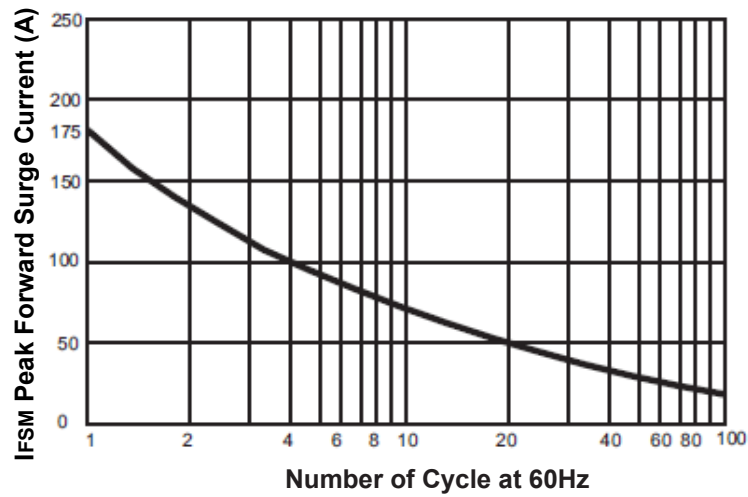


Fig.3- Typical Forward Characteristics Per Bridge Element

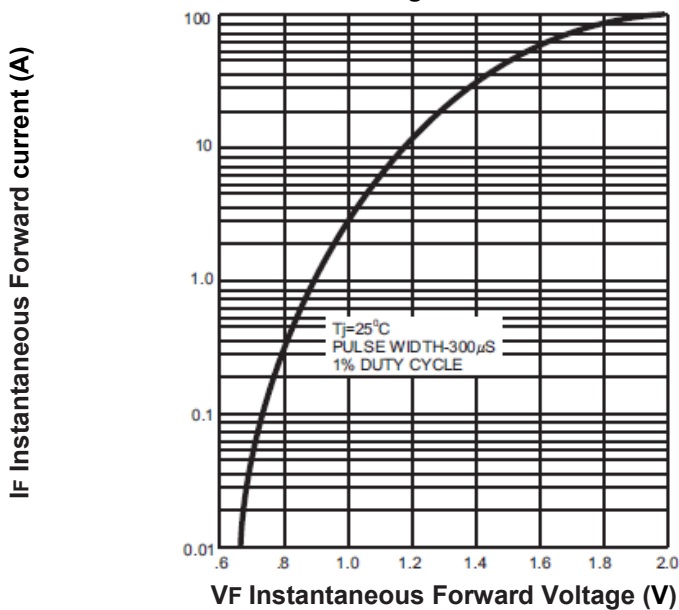
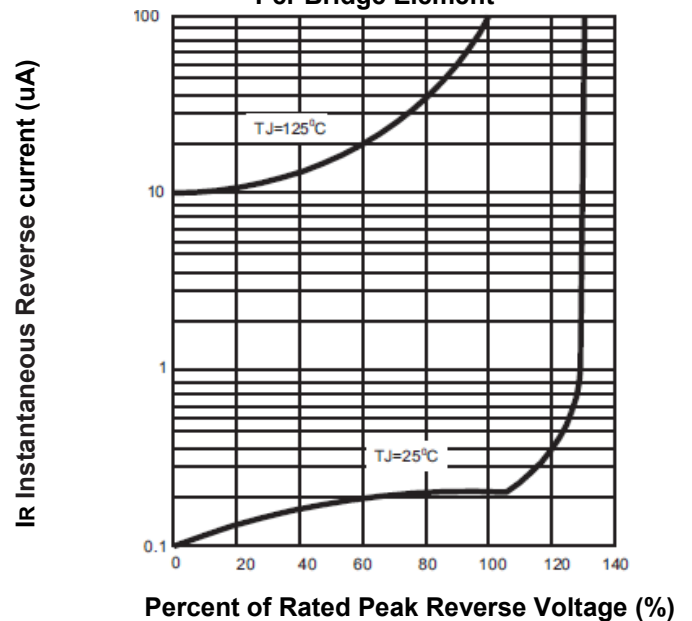


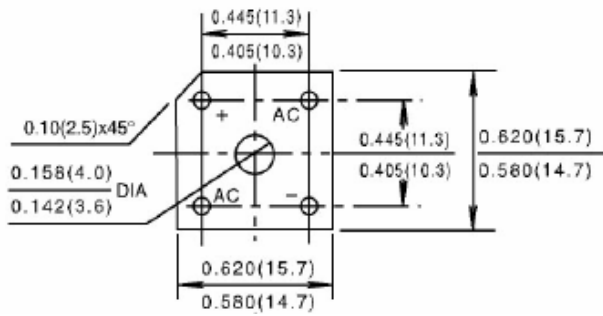
Fig.4- Typical Reverse Characteristics Per Bridge Element



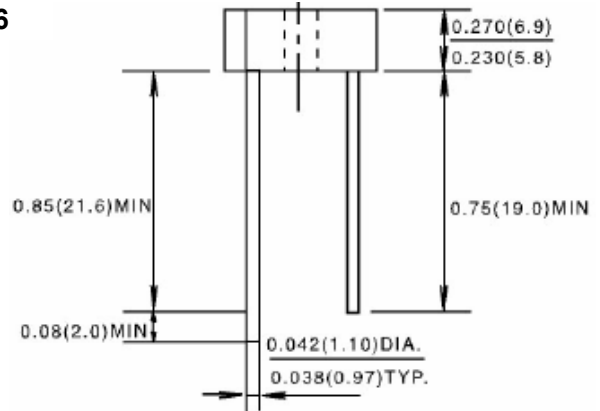
# 6.0A Glass Passivated Bridge Rectifier

TB605G - TB610G

## Dimensions in inch (mm)



TB6



# 6.0A Glass Passivated Bridge Rectifier

TB605G - TB610G

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