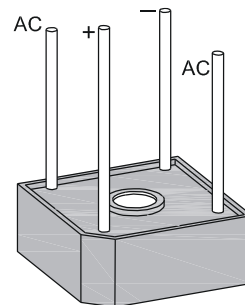


## 10A Glass Passivated Bridge Rectifier

### Features

- High current capability
- High case dielectric strength
- High surge current capability
- Idea for PCB application



MP10 

### Mechanical Data

<b>Case:</b>	Molded plastic with Heatsink
<b>Epoxy:</b>	Meets UL 94V-0 flammability rating
<b>Terminals:</b>	Lead solderable per MIL-STD-202 method 208
<b>Polarity:</b>	Marked on case
<b>Weight:</b>	5.4 grams

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

Symbol	Description	TB100 5G	TB101 G	TB102 G	TB104 G	TB106 G	TB108 G	TB1010 G	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>I<sub>O(AV)</sub></b>	Maximum Average Forward Rectified Current	10							A	TC = 95 °C Note2
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	300							A	Note1
<b>V<sub>F</sub></b>	Maximum Forward Voltage	1.1							V	I <sub>O</sub> =7.5A
<b>I<sub>R</sub></b>	Maximum Reverse Current at Rated DC Blocking Voltage per element	10							uA	TA = 25 °C
		1000								TA =125 °C

# 10A Glass Passivated Bridge Rectifier

## TB1005G - TB1010G

Symbol	Description	TB100 5G	TB101 G	TB102 G	TB104 G	TB106 G	TB108 G	TB1010 G	Unit	Conditions
<b>C<sub>j</sub></b>	Typical Junction Capacitance	180							pF	Note3
<b>R<sub>θJA</sub></b>	Typical thermal resistance, Junction to Ambient	8.0							° C/W	Note2
<b>T<sub>J</sub></b>	Operating Temperature Range	-55 to +150							° C	
<b>T<sub>STG</sub></b>	Storage Temperature Range	-55 to +150							° C	

### NOTES:

1. 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)
2. Unit Mounted on metal chassis.
3. Measured at 1.0MHz and applied reverse voltage of 4.0VDC

## Typical Characteristics Curves

Fig.1- Derating Curve for Output Rectified Current

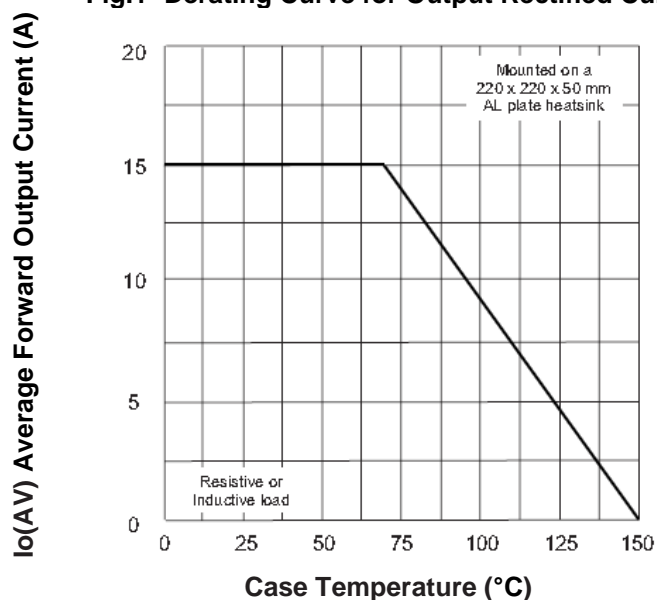
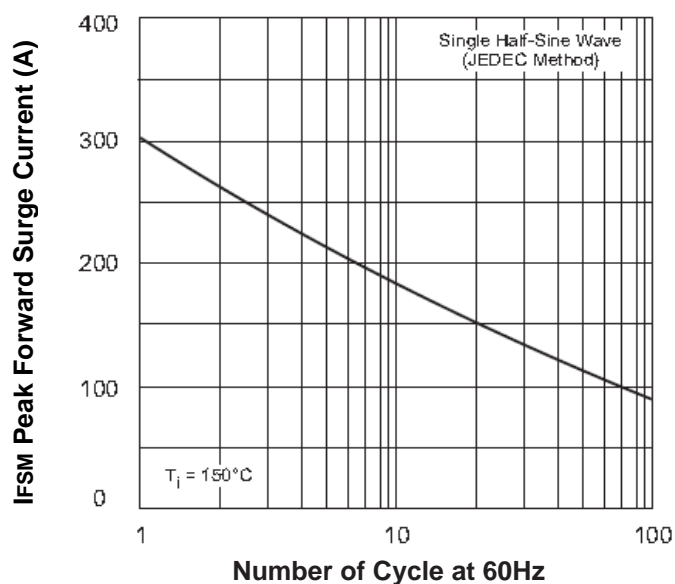


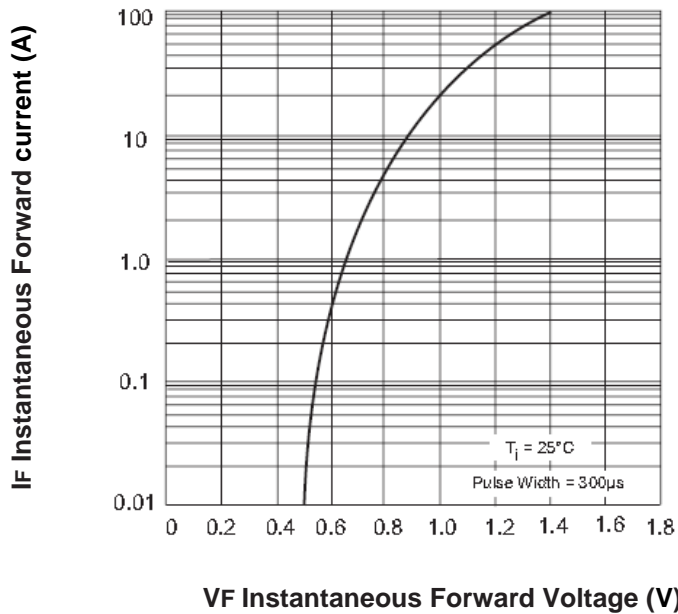
Fig.2- Maximum Non-Repetitive Surge Current



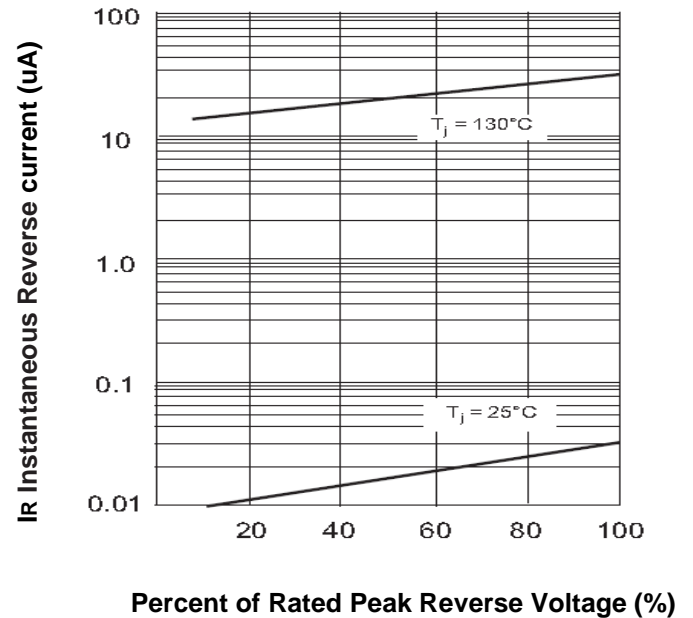
# 10A Glass Passivated Bridge Rectifier

## TB1005G - TB1010G

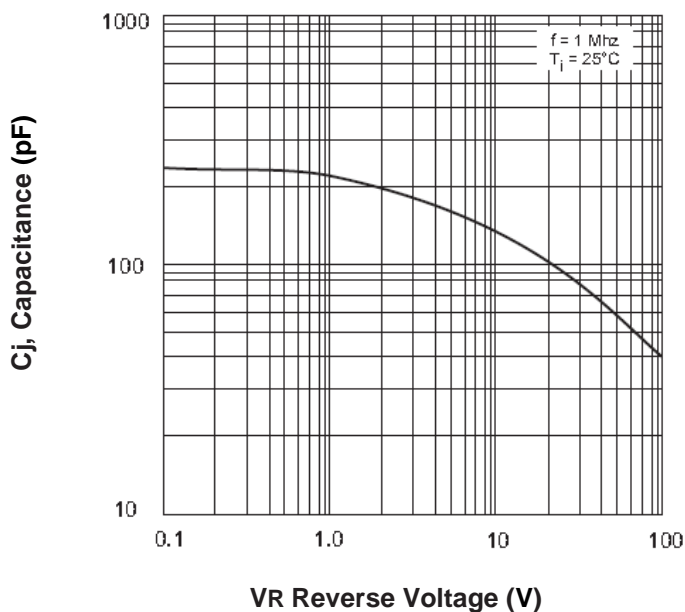
**Fig.3- Typical Forward Characteristics  
Per Bridge Element**



**Fig.4- Typical Reverse Characteristics  
Per Bridge Element**



**Fig.5- Typical Junction Capacitance  
Per Element**

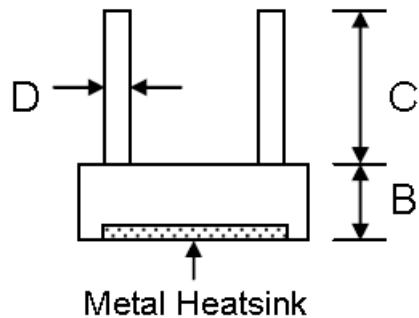
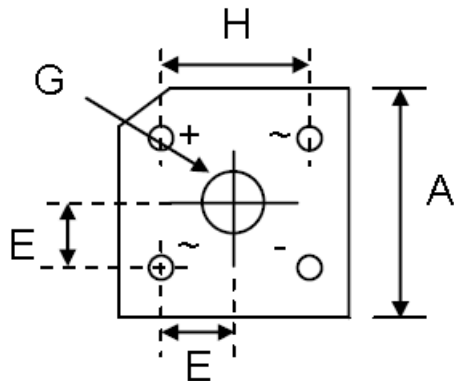


# 10A Glass Passivated Bridge Rectifier

## TB1005G - TB1010G

Dimensions in inch (mm)

MP10



MP10		
Dim	Min	Max
A	18.54	19.56
B	6.35	7.60
C	19.00	—
D	1.27 Ø Typical	
E	5.33	7.37
G	Hole for #6 screw	
	3.60	4.00
H	12.20	13.80
All Dimensions in mm		

# 10A Glass Passivated Bridge Rectifier

## TB1005G - TB1010G

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