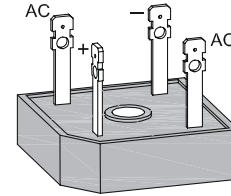


## 15.0A Glass Passivated Bridge Rectifier

### 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



TB35



### Mechanical Data

<b>Case:</b>	Molded plastic body with Metal Heat Sink
<b>Polarity:</b>	Polarity symbols marked on case
<b>Terminals:</b>	Plated 0.25" (6.35mm) lug
<b>Mounting Position:</b>	Thru hole for #10 screw, 20 in -lbs. torque max
<b>Weight:</b>	0.53 ounce, 15 grams

### Maximum Ratings & Electrical Characteristics *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbols	Description	TB1505G	TB151G	TB152G	TB154G	TB156G	TB158G	TB1510G	Unit
<b>VRRM</b>	Max. recurrent peak reverse voltage	50	100	200	400	600	800	1000	V
<b>VRMS</b>	Max. RMS voltage	35	70	140	280	420	560	700	V
<b>VDC</b>	Max. DC blocking voltage	50	100	200	400	600	800	1000	V
<b>IO(AV)</b>	Max. average forward rectified current @ TC=55° C	15.0							A
<b>IFSM</b>	Peak forward surge current (Note 1)	200							A
<b>VISO</b>	Isolation Voltage from case to lugs	2500							V
<b>CJ</b>	Typical Capacitance Junction(per element)(Note 2)	300							pF
<b>TJ</b>	Operating junction temperature range	-55 to +150							°C
<b>TSTG</b>	Storage Temperature Range	-55 to +150							°C

# 15.0A GLASS PASSIVATED BRIDGE RECTIFIER

## TB1505G -TB1510G

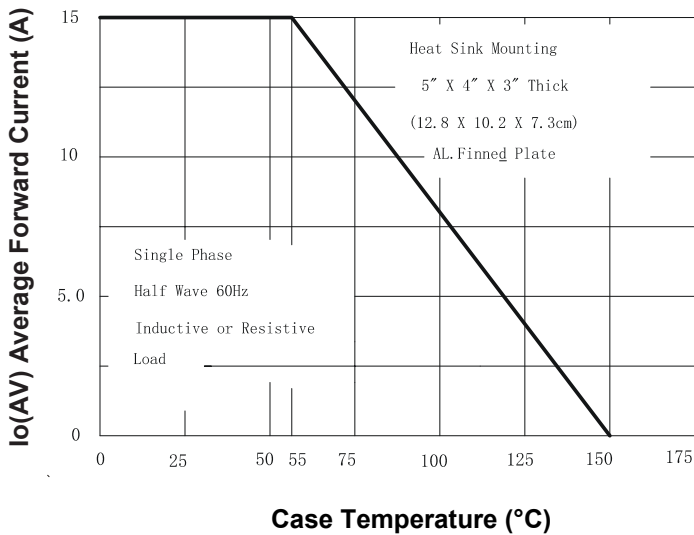
Symbol	Description	TB1505G	TB151G	TB152G	TB154G	TB156G	TB158G	TB1510G	Unit
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage Drop Per Leg@7.5 A	1.1							V
<b>I<sub>R</sub></b>	Maximum DC Reverse Current Rated DC Blocking Voltage	T <sub>A</sub> =25° C		5.0				uA	
		T <sub>A</sub> =125° C		500				uA	
<b>R<sub>θ-JC</sub></b>	Maximum Thermal Resistance (Note 3)	1.9						° C/W	

**NOTES:**

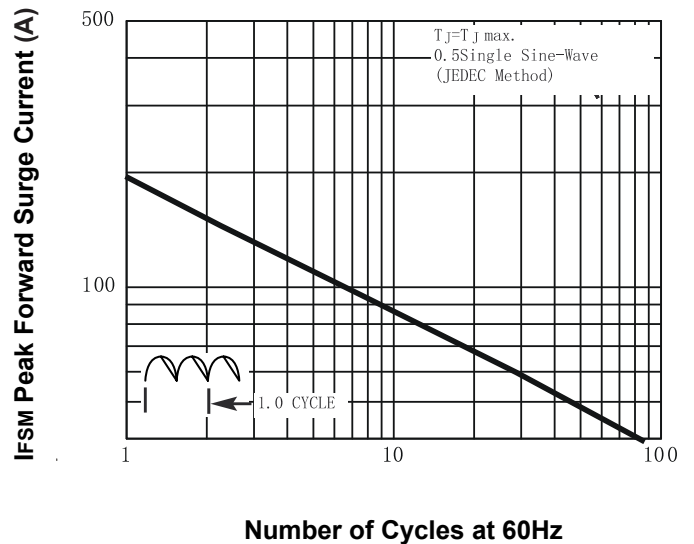
1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method).
2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
3. Thermal resistance junction to case mounted on heat sink.

### Typical Characteristics Curves

**Fig.1- Typical Forward Current Derating Curve**



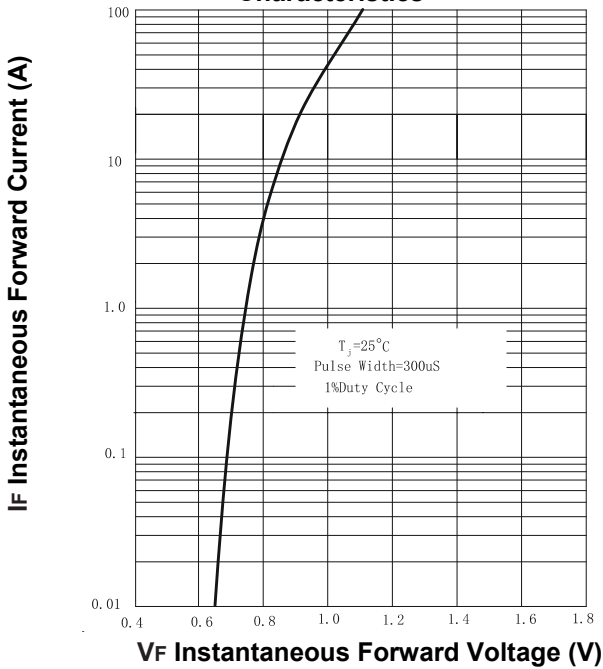
**Fig.2-Max. Non-repetitive Peak Forward Surge Current**



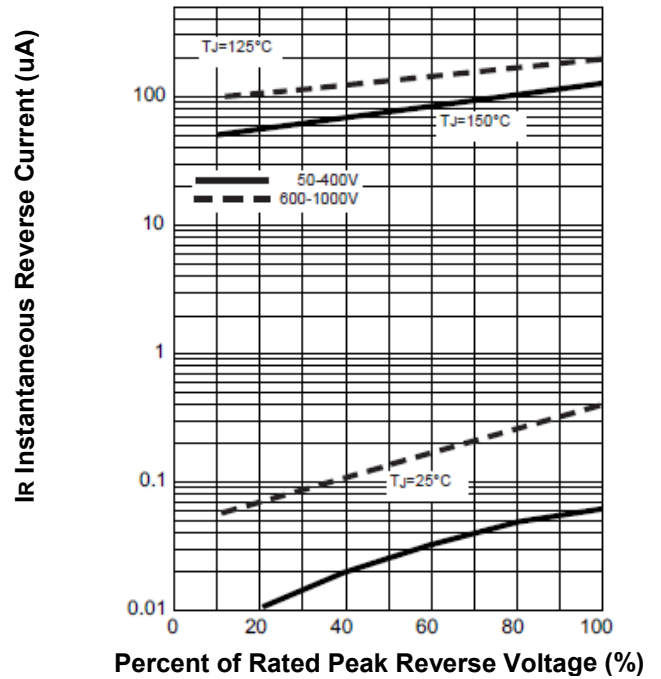
# 15.0A GLASS PASSIVATED BRIDGE RECTIFIER

## TB1505G -TB1510G

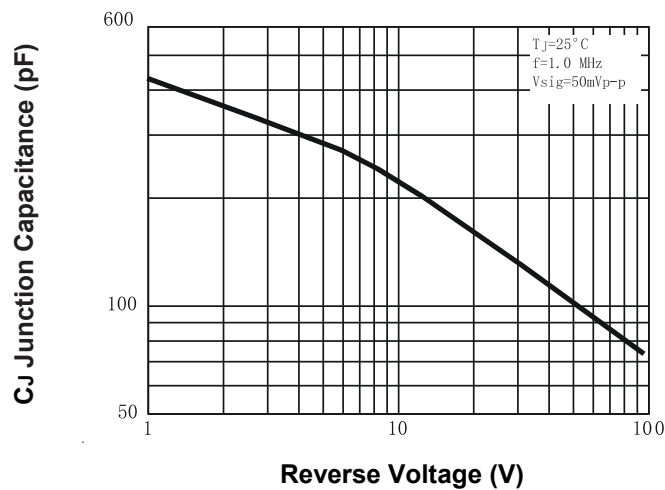
**Fig.3- Typical Instantaneous Forward Characteristics**



**Fig.4- Typical Reverse Characteristics**



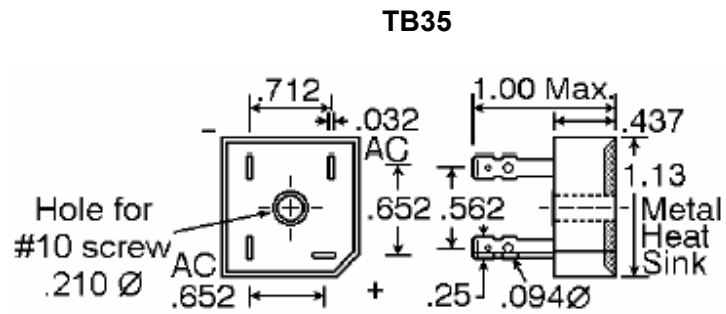
**Fig.5-Typical junction capacitance**



# 15.0A GLASS PASSIVATED BRIDGE RECTIFIER

TB1505G -TB1510G

Dimensions in inches (mm)



# 15.0A GLASS PASSIVATED BRIDGE RECTIFIER

TB1505G -TB1510G

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