

## 6 Amp Glass Passivated Quick Connect Rectifier

### Features

- Package suitable for assembly
- Glass passivated junction
- High current capability
- Plastic package has underwriters laboratory flammability classification 94 V-O
- RoHS compliant



### Mechanical Data

|                   |                                     |
|-------------------|-------------------------------------|
| <b>Case:</b>      | Pplastic transfer molded            |
| <b>Terminals:</b> | Plated 0.25" fast on terminals      |
| <b>Polarity:</b>  | cathode end indicated by color band |
| <b>Weight:</b>    | 3.37 gram                           |

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

| Symbol                               | Description                                      | GT 605G    | GT 61G | GT 62G | GT 64G | GT 66G | GT 68G | GT 610G | Unit  | Conditions                                  |
|--------------------------------------|--------------------------------------------------|------------|--------|--------|--------|--------|--------|---------|-------|---------------------------------------------|
| <b>V<sub>RRM</sub></b>               | Max. Recurrent Peak Reverse Voltage              | 50         | 100    | 200    | 400    | 600    | 800    | 1000    | V     |                                             |
| <b>V<sub>RMS</sub></b>               | Max. RMS Voltage                                 | 35         | 70     | 140    | 280    | 420    | 560    | 700     | V     |                                             |
| <b>V<sub>DC</sub></b>                | Max. DC Blocking Voltage                         | 50         | 100    | 200    | 400    | 600    | 800    | 1000    | V     |                                             |
| <b>I<sub>F(AV)</sub></b>             | Max. Average Forward Rectified Current           | 6.0        |        |        |        |        |        |         | A     | TA=60°C                                     |
|                                      |                                                  | 22         |        |        |        |        |        |         |       | TL=60°C                                     |
| <b>I<sub>FSM</sub></b>               | Peak Forward Surge Current                       | 400        |        |        |        |        |        |         | A     | 8.3ms single half sine-wave on rated load   |
| <b>V<sub>F</sub></b>                 | Max. Instantaneous Forward Voltage               | 1.0        |        |        |        |        |        |         | V     | I <sub>F</sub> at 6.0 A                     |
| <b>I<sub>R</sub></b>                 | Max. DC Reverse Current                          | 10         |        |        |        |        |        |         | μA    | At rated <b>V<sub>RRM</sub></b>             |
| <b>C<sub>J</sub></b>                 | Typical Junction Capacitance                     | 150        |        |        |        |        |        |         | pf    | at f=1.0 MHz and V <sub>r</sub> = 4.0 volts |
| <b>R<sub>θ-JA</sub></b>              | Maximum Thermal Resistance                       | 20         |        |        |        |        |        |         | ° C/W |                                             |
| <b>T<sub>J</sub>,T<sub>STG</sub></b> | Operating Junction and Storage Temperature Range | -55 to 150 |        |        |        |        |        |         | ° C   |                                             |

# 6 Amp Glass Passivated Quick Connect Rectifier

GT605G~ GT610G

## Typical Characteristics Curves

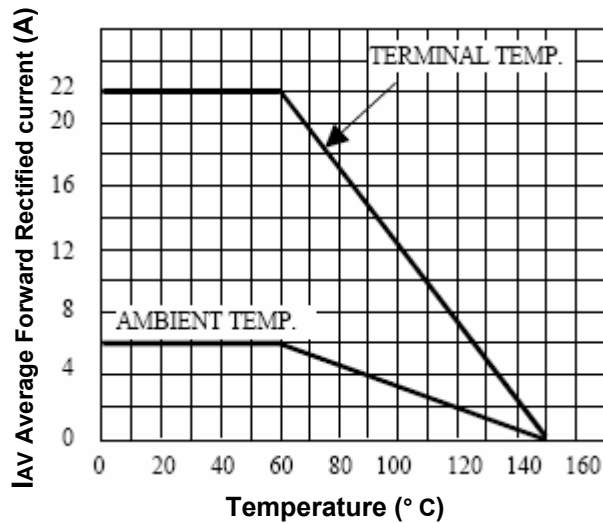


Fig.1- Forward Current Derating Curve

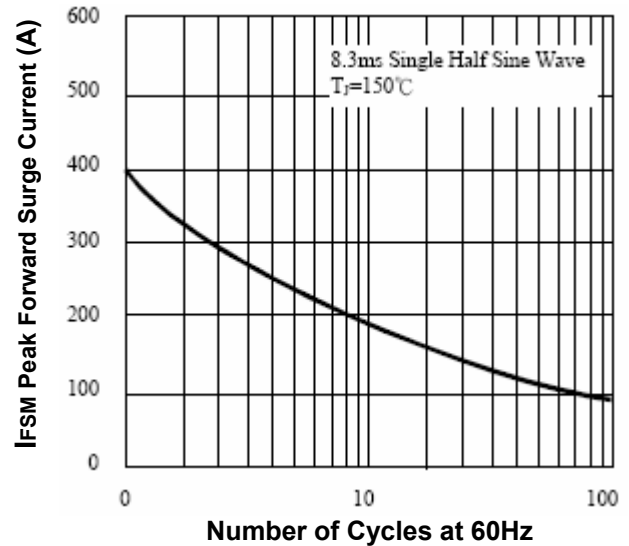


Fig.2- Max. Non-Repetitive Forward Surge Current

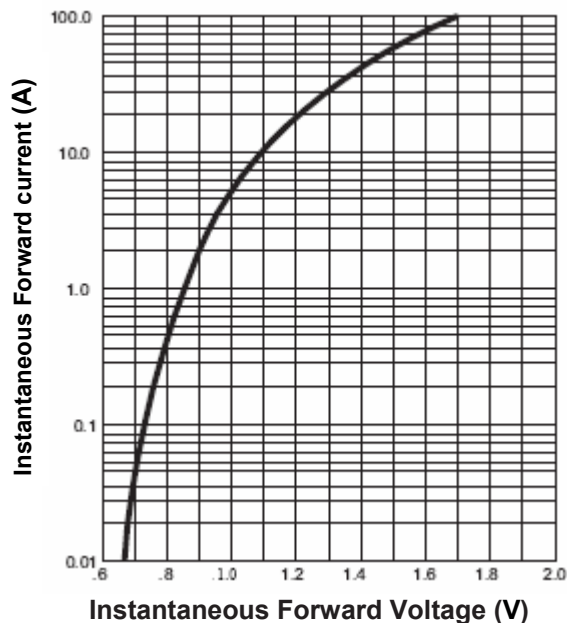


Fig.3- Typical Instantaneous Forward Characteristics

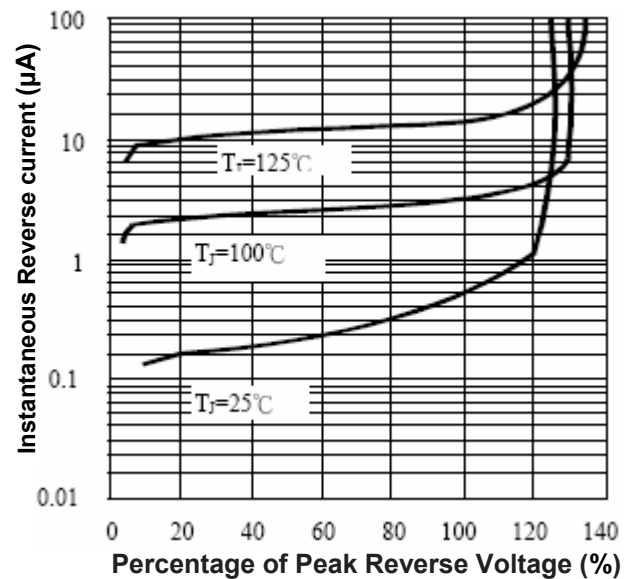


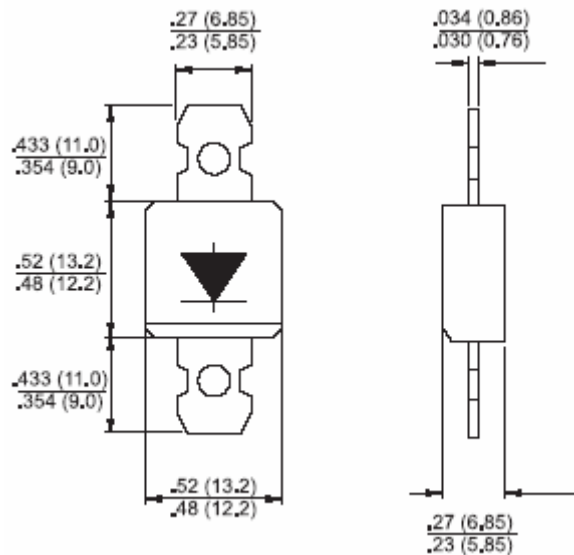
Fig.4- Typical Reverse Characteristics

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GT605G~ GT610G

Dimensions in inch (mm)

Case: GT



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