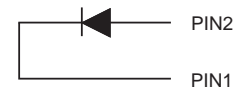
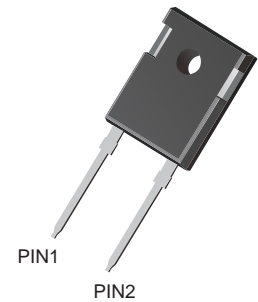


Glass Passivated High Voltage Rectifier

Features

- High surge forward current capability
- High voltage capability
- High voltage capability
- Low forward voltage drop
- Low leakage current
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Lead free in comply with EU RoHS 2011/65/EU directives



Mechanical data

- Case: TO-247-2L
- Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free"
- Approx. Weight: 6.0g

Ordering Information

| Part Number | Marking | Shipping | Packing Type |
|-------------|---------|------------|--------------|
| LTG60160W | G60160W | 30PCS/Tube | Tube |

Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

| Parameter | Symble | LTG60160W | Units |
|--|-----------------|-------------|---------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 1600 | V |
| Maximum RMS voltage | V_{RMS} | 1120 | V |
| Maximum DC Blocking Voltage | V_{DC} | 1600 | V |
| Maximum Average Forward Rectified Current @ $T_c=100^{\circ}C$ Per device | $I_{F(AV)}$ | 60 | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 500 | A |
| Max Instantaneous Forward Voltage at 60 A | V_F | 1.12 | V |
| Maximum DC Reverse Current at $T_j = 25^{\circ}C$ Rated DC Reverse Voltage $T_j = 125^{\circ}C$ | I_R | 10 500 | μA |
| Typical Thermal Resistance | $R_{\theta JC}$ | 1.1 | $^{\circ}C/W$ |
| Operating Junction Temperature Range | T_j | -55 to +150 | $^{\circ}C$ |
| Storage Temperature Range | T_{stg} | -55 to +150 | $^{\circ}C$ |



Characteristics Curves

Fig.1 Forward Current Derating Curve

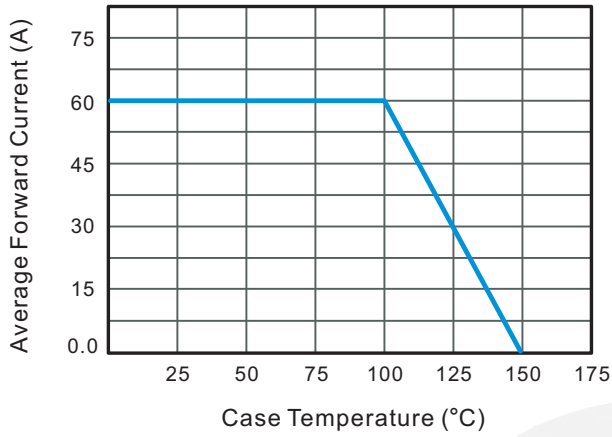


Fig.2 Typical Instantaneous Reverse Characteristics

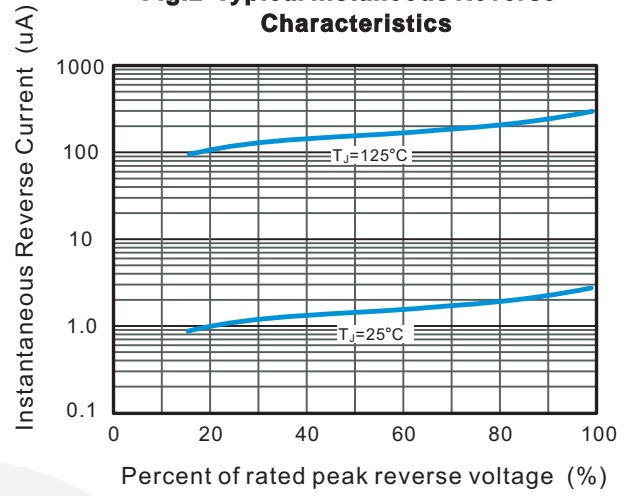


Fig.3 Typical Forward Characteristic

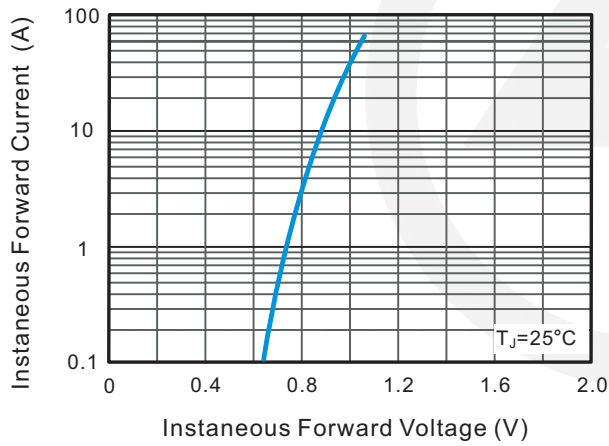
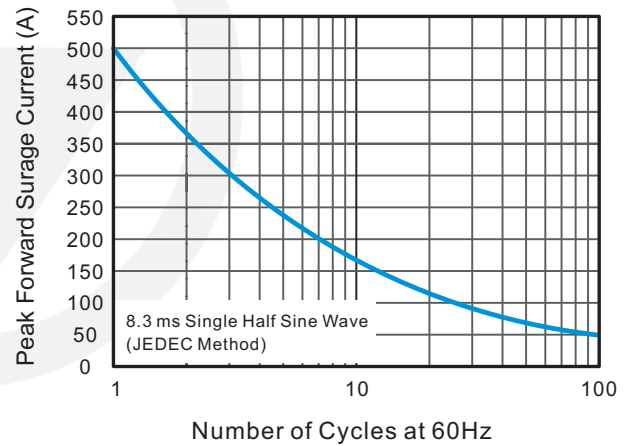
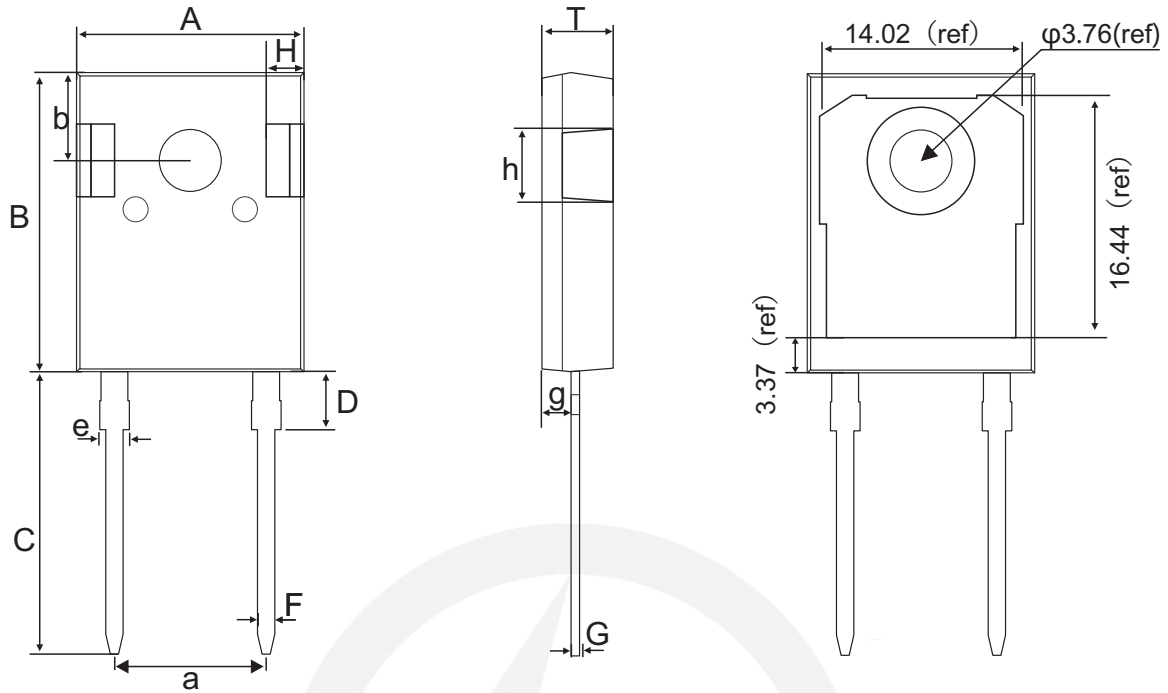


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current





TO-247-2L Package Outline



| Unit | | A | B | b | C | D | e | F | g | G | T | a | H | h |
|------|-----|-------|-------|------|------|------|------|-----|------|-----|-----|-------|------|------|
| mm | max | 16.01 | 21.18 | 6.26 | 20.2 | 4.25 | 2.2 | 1.3 | 2.49 | 0.7 | 5.2 | 10.98 | 2.71 | 5.37 |
| | typ | 15.81 | 20.98 | 6.16 | 20.0 | 4.15 | 2.05 | 1.2 | 2.39 | 0.6 | 5.0 | 10.88 | 2.51 | 5.17 |
| | min | 15.61 | 20.78 | 6.06 | 19.8 | 4.05 | 1.9 | 1.1 | 2.29 | 0.5 | 4.8 | 10.78 | 2.31 | 4.97 |

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Version Update Information

| Series NO. | Enactment/Revision Date | Effective Date | Version | Revision Content | Revision Reason | Revision Person | Note |
|------------|-------------------------|----------------|---------|------------------|-----------------|-----------------|------|
| 01 | 2025.06.10 | 2025.06.10 | 3.0 | New file | / | Ding | |