

## Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed  
260°C/10 seconds at terminals

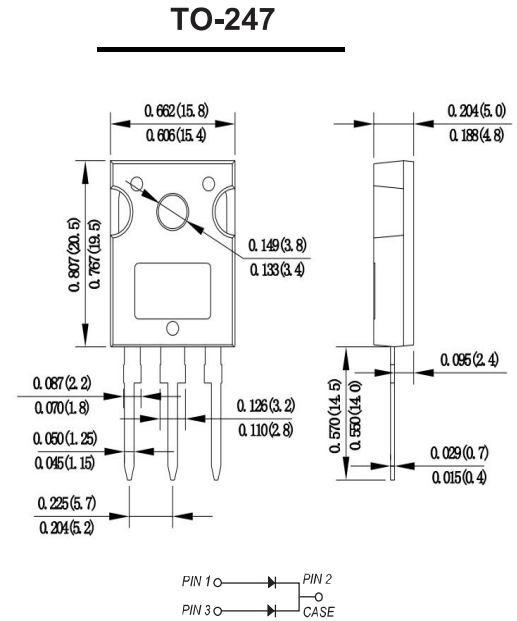
## Mechanical Data

**Case** : Molded plastic body

**Terminals** : Solder plated, solderable per MIL-STD-750,Method 2026

**Polarity** : Polarity symbol marking on body

**Mounting Position** : Any



Dimensions in inches and (millimeters)

## Maximum Ratings And Electrical Characteristics

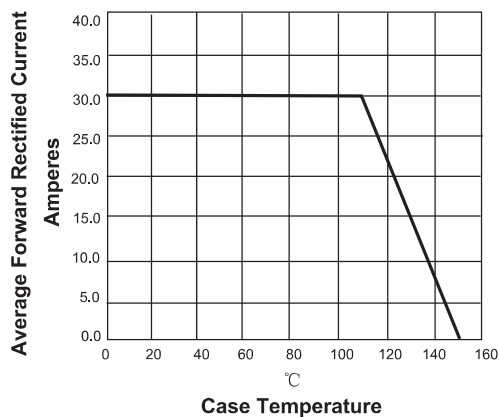
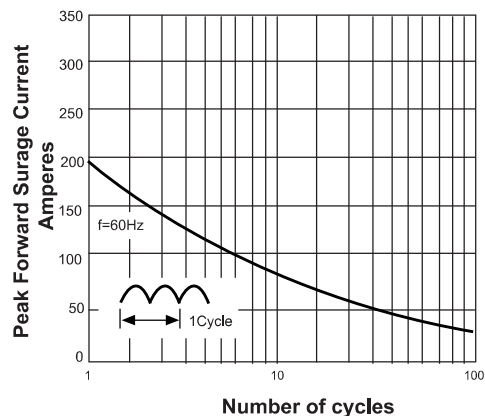
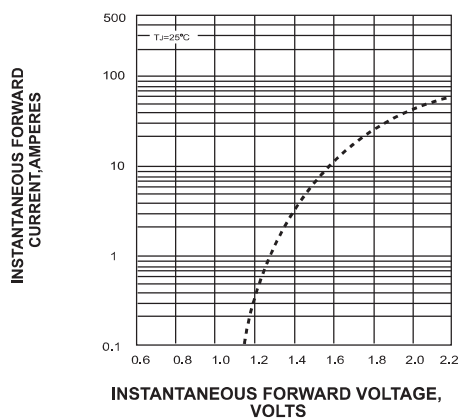
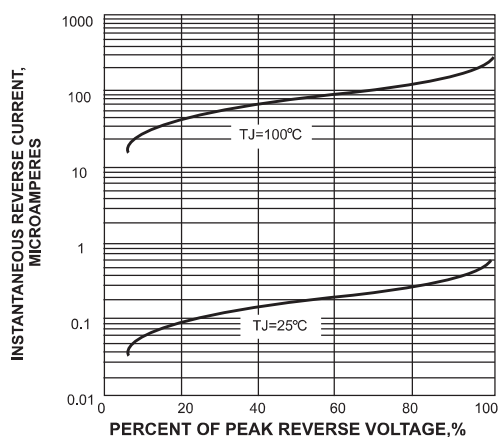
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

| Parameter                                                                                             | SYMBOLS         | CN3060       | UNITS         |
|-------------------------------------------------------------------------------------------------------|-----------------|--------------|---------------|
| Maximum repetitive peak reverse voltage                                                               | $V_{RRM}$       | 600          | V             |
| Maximum RMS voltage                                                                                   | $V_{RMS}$       | 420          | V             |
| Maximum DC blocking voltage                                                                           | $V_{DC}$        | 600          | V             |
| Maximum average forward rectified current at $T_c=110^{\circ}C$<br>per device<br>per diode            | $I_{(AV)}$      | 30.0<br>15.0 | A             |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load                    | $I_{FSM}$       | 200.0        | A             |
| Maximum instantaneous forward voltage per diode at 15.0A                                              | $V_F$           | 2.2          | V             |
| Maximum DC reverse current<br>at rated DC blocking voltage<br>$T_A=25^{\circ}C$<br>$T_A=125^{\circ}C$ | $I_R$           | 10<br>500    | $\mu A$       |
| Maximum reverse recovery time                                                                         | $T_{rr}$        | 50           | ns            |
| Typical thermal resistance                                                                            | $R_{\theta JC}$ | 3.5          | $^{\circ}C/W$ |
| Operating junction temperature range                                                                  | $T_J$           | -55 to +150  | $^{\circ}C$   |
| Storage temperature range                                                                             | $T_{STG}$       | -55 to +150  | $^{\circ}C$   |

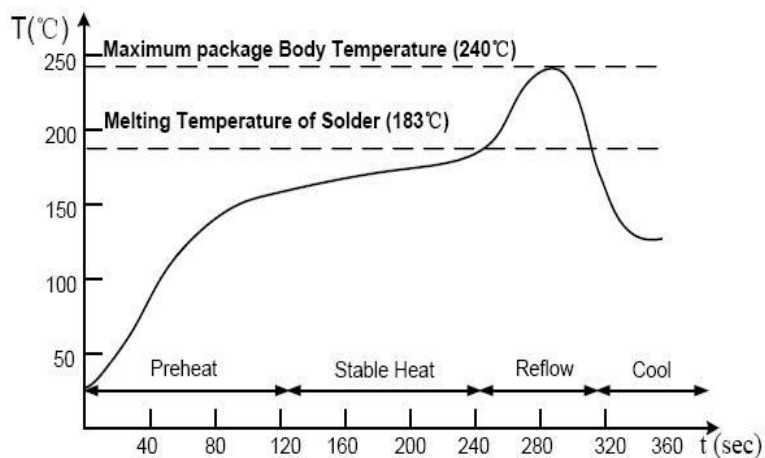
**Note:**1.Reverse recovery time test condition:  $I_F=0.5A$   $I_R=1.0A$   $I_{rr}=0.25A$

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## Ratings And Characteristic Curves

**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**

**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**

**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS**

**FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS**


### Suggested Soldering Temperature Profile



#### Note

- Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- The device can be exposed to a maximum temperature of 265°C for 10 seconds.
- Devices can be cleaned using standard industry methods and solvents.
- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

### Package Information

#### Tube Package

| Package | Tube (mm)    | Q'TY/Tube (Kpcs) | Box Size (mm) | QTY/Box (Kpcs) | Carton Size (mm) | Q'TY/Carton (Kpcs) |
|---------|--------------|------------------|---------------|----------------|------------------|--------------------|
| TO-247  | 510*45.5*7.8 | 0.03             | 545*150*45    | 0.45           | 570*260*150      | 2.25               |

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