# 6A10G

## 6.0AMPS . GLASS PASSIVATED RECTIFIERS

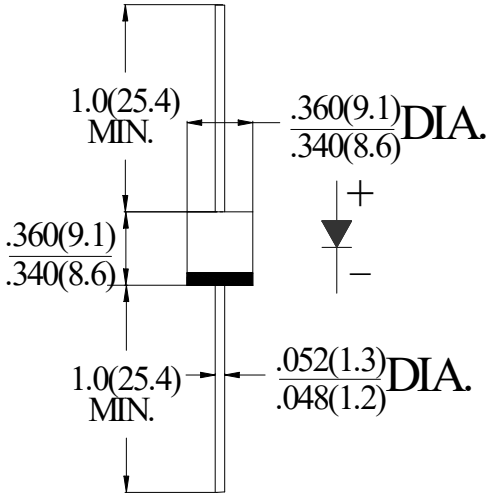
### FEATURE

. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High surge capability
. High temperature soldering guaranteed:
260°C /10sec/ 0.375" lead length at 5 lbs tension

### MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
. Polarity: color band denotes cathode
. Mounting position: any

**R-6**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| Type Number | SYMBOL | 6A10G | units |
|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 1000 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 700 | V |
| Maximum DC blocking Voltage | $V_{DC}$ | 1000 | V |
| Maximum Average Forward Rectified Current .375"(9.5mm) lead length | $I_{F(AV)}$ | 6.0 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | $I_{FSM}$ | 200.0 | A |
| Maximum Forward Voltage at 6.0A DC | $V_F$ | 1.0 | V |
| Maximum DC Reverse Current @$T_J$=25°C<br>at rated DC blocking voltage @$T_J$=125°C | $I_R$ | 5.0<br>200.0 | μA |
| Typical Junction Capacitance (Note 1) | $C_J$ | 80 | pF |
| Typical Thermal Resistance (Note 2) | $R_{(JA)}$ | 40 | °C/W |
| Storage Temperature | $T_{STG}$ | -55 to +150 | °C |
| Operation JunctionTemperature | $T_J$ | -55 to +150 | °C |

**Note:**

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375"（9.5mm）lead length, vertical P.C.Board Mounted.

## RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

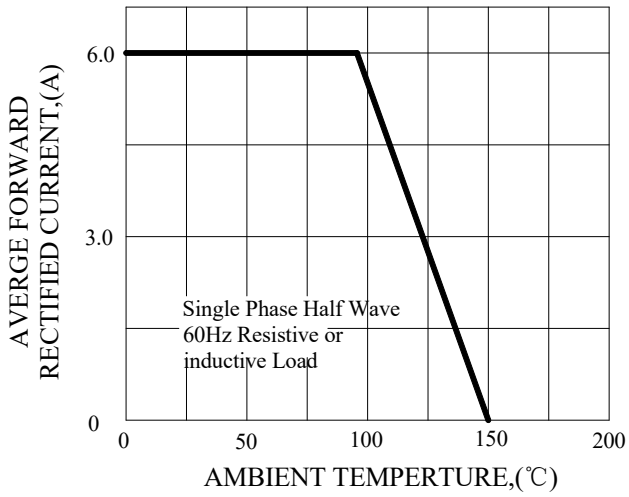



FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

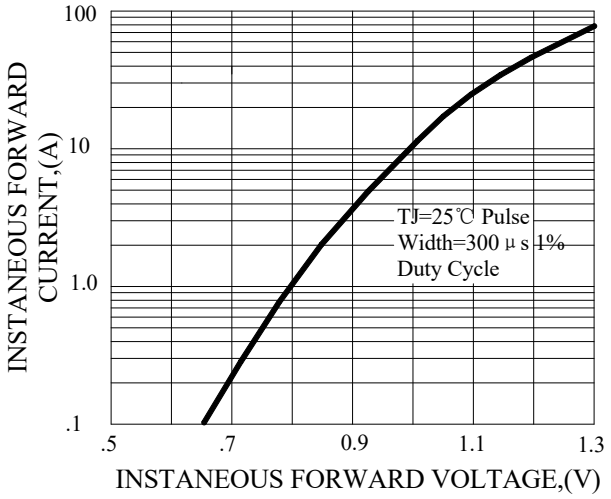



FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

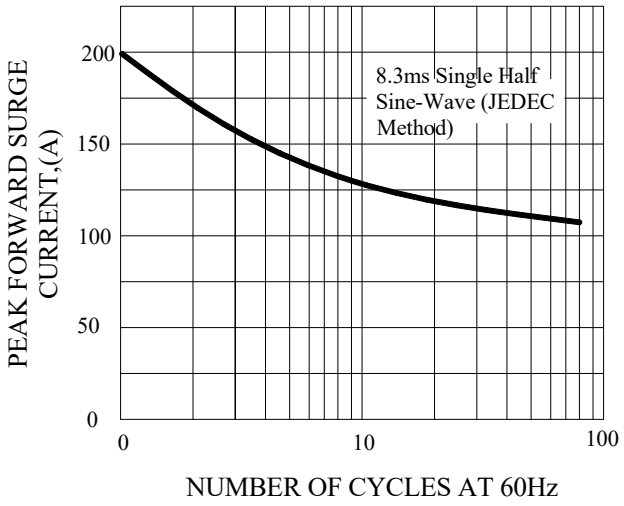
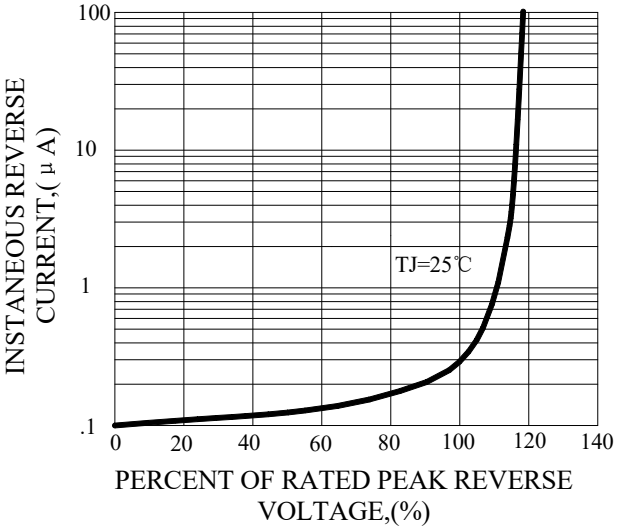
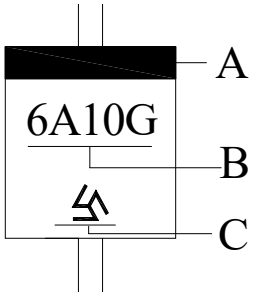



FIG.4-TYPICAL REVERSE CHARACTERISTICS



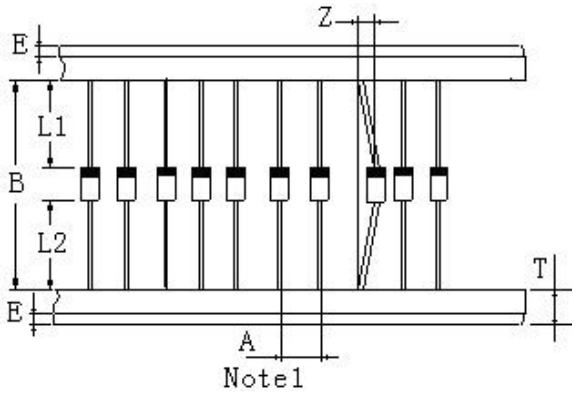
# Marking and packaging illustration

## 1、Marking




| SYMBOL | Explanation |
|---|---|
| A | Color Band Denotes Cathode |
| B | Product Nam |
| C | Trademark |

## 2、Packaging




| ITEM | SYMBOL | SPECIFICATIONS (mm) | SPECIFICATIONS (inch) |
|---|---|---|---|
| Component alignment | Z | 1.2max | 0.048max |
| Tape width | T | 6.0±0.4 | 0.236±0.016 |
| Exposed adhesive | E | 0.8max | 0.032max |
| Body eccentricity | \|L1-L2\| | 1.0max | 0.040max |
| lead spacing | A | 10.0±0.5 | 0.4±0.02 |
| Tape span inside | B | 52.0~53.5 | 2.06~2.11 |
| NOTE：<br>Each component lead shall be sandwiched between tapes for a minimum of 2.5mm（0.1inch） | | | |