## Zibo Seno Electronic Engineering Co., Ltd.



# PG600A – PG600M 🐏 🕍

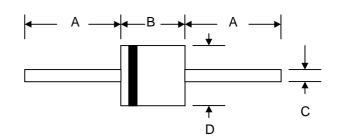
### 6.0A GLASS PASSIVATED RECTIFIER

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

#### **Mechanical Data**

- Case: R-6/P-600, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
  Delarity Catheda Decide
- Polarity: Cathode Band
- Weight: 2.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



| R-6/P-600            |      |      |  |  |  |  |  |
|----------------------|------|------|--|--|--|--|--|
| Dim                  | Min  | Max  |  |  |  |  |  |
| Α                    | 25.4 | —    |  |  |  |  |  |
| В                    | 8.60 | 9.10 |  |  |  |  |  |
| С                    | 1.10 | 1.30 |  |  |  |  |  |
| D                    | 8.60 | 9.10 |  |  |  |  |  |
| All Dimensions in mm |      |      |  |  |  |  |  |

#### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic  | Symbol             | PG600A      | PG600B | PG600D | PG600G | PG600J | PG600K | PG600M | Unit |
|---|--------------------|-------------|--------|--------|--------|--------|--------|--------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | Vrrm<br>Vrwm<br>Vr | 50          | 100    | 200    | 400    | 600    | 800    | 1000   | V    |
| RMS Reverse Voltage   | VR(RMS)            | 35          | 70     | 140    | 280    | 420    | 560    | 700    | V    |
| Average Rectified Output Current<br>(Note 1) $@T_A = 50^{\circ}C$   | lo                 |             |        |        | 6.0    |        |        |        | A    |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on<br>rated load (JEDEC Method) | IFSM               | 250         |        |        |        |        | A      |        |      |
| Forward Voltage $@I_F = 6.0A$   | Vfm                | 1.0         |        |        |        |        |        | V      |      |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$                          | Iгм                | 2.0<br>100  |        |        |        |        | μA     |        |      |
| Typical Thermal Resistance Junction to Ambient (Note 1)   | R∂ja               | 10          |        |        |        |        | °C/W   |        |      |
| Operating Temperature Range   | Tj                 | -55 to +150 |        |        |        |        | °C     |        |      |
| Storage Temperature Range   | Тѕтс               | -55 to +150 |        |        |        |        | °C     |        |      |

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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