# Zibo Seno Electronic Engineering Co., Ltd.



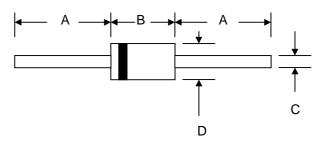
1A1 – 1A7 Contraction of the standard diode

#### Features

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

#### **Mechanical Data**

- Case: R-1, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.181 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,



| R-1                  |      |      |  |  |  |  |
|----------------------|------|------|--|--|--|--|
| Dim                  | Min  | Max  |  |  |  |  |
| Α                    | 20.0 | —    |  |  |  |  |
| В                    | 2.90 | 3.50 |  |  |  |  |
| С                    | 0.53 | 0.64 |  |  |  |  |
| D                    | 2.20 | 2.60 |  |  |  |  |
| 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%.

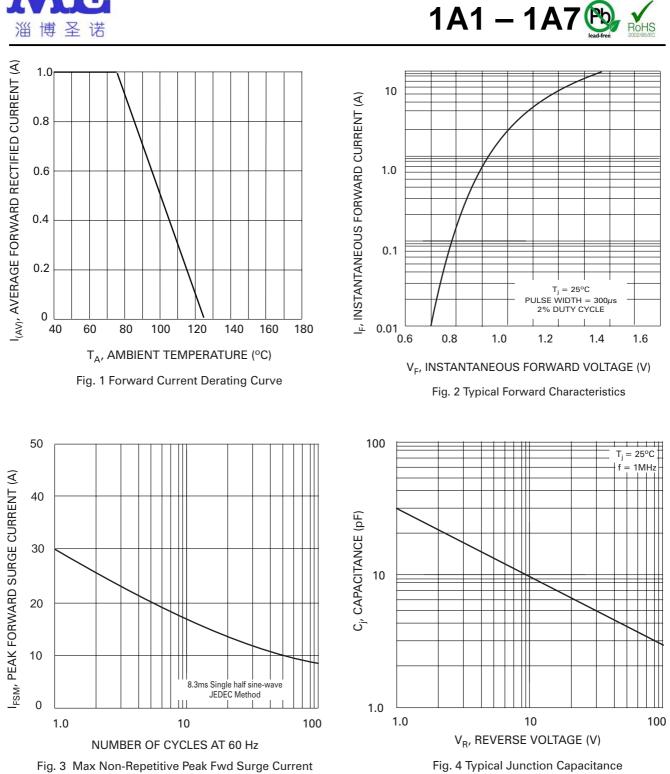
| Characteristic  | Symbol             | 1A1         | 1A2 | 1A3 | 1A4 | 1A5 | 1A6 | 1A7  | Unit |
|---|--------------------|-------------|-----|-----|-----|-----|-----|------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | 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 (Note 1)<br>@ $T_A = 75^{\circ}C$  | lo                 | 1.0         |     |     |     |     |     | А    |      |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on<br>rated load (JEDEC Method) | IFSM               | 30          |     |     |     |     |     | A    |      |
| Forward Voltage $@I_F = 1.0A$   | Vfm                | 1.0         |     |     |     |     |     | V    |      |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$                          | Irm                | 5.0<br>50   |     |     |     |     |     | μA   |      |
| Typical Junction Capacitance (Note 2)   | Cj                 | 15          |     |     |     |     |     |      | pF   |
| Typical Thermal Resistance Junction to Ambient (Note 1)   | R ∂ JA             | 50          |     |     |     |     |     | °C/W |      |
| Operating Temperature Range   | Tj                 | -65 to +125 |     |     |     |     |     |      | °C   |
| Storage Temperature Range   | Тѕтс               | -65 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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