

**Plastic-Encapsulate Schottky Barrier Diode**

**Features**

- ♦High Current Capability
- ♦Low Forward Voltage Drop

**Mechanical Data**

- ♦SOD-323 Small Outline Plastic Package
- ♦Polarity: Color band denotes cathode end
- ♦Mounting Position: Any

**Marking: 4**

**Maximum Ratings & Thermal Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

| Parameters                                              | Symbol          | Limit    | Unit |
|---------------------------------------------------------|-----------------|----------|------|
| Peak reverse voltage                                    | $V_{RM}$        | 45       | V    |
| DC reverse voltage                                      | $V_R$           | 40       | V    |
| Mean rectifying current                                 | $I_o$           | 0.1      | A    |
| Peak forward surge current 8.3 ms single half sine-wave | $I_{FSM}$       | 1.0      | A    |
| Typical thermal resistance                              | $R_{\theta JA}$ | 500      | °C/W |
| Power Dissipation                                       | $P_D$           | 200      | mW   |
| Junction temperature                                    | $T_j$           | 125      | °C   |
| Storage temperature range                               | $T_{STG}$       | -40-+125 | °C   |

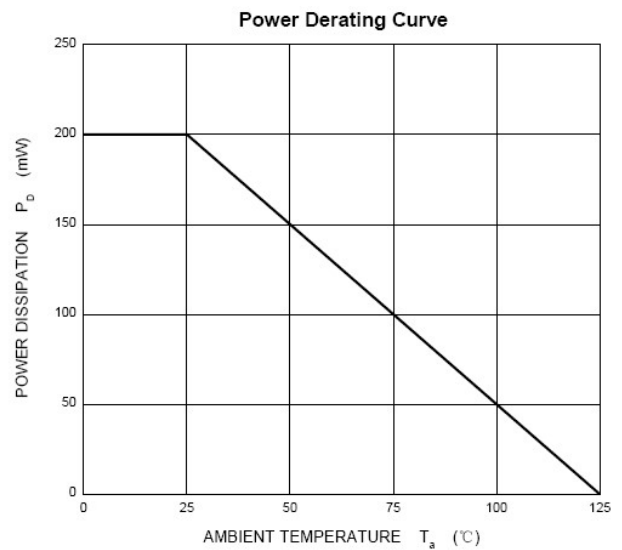
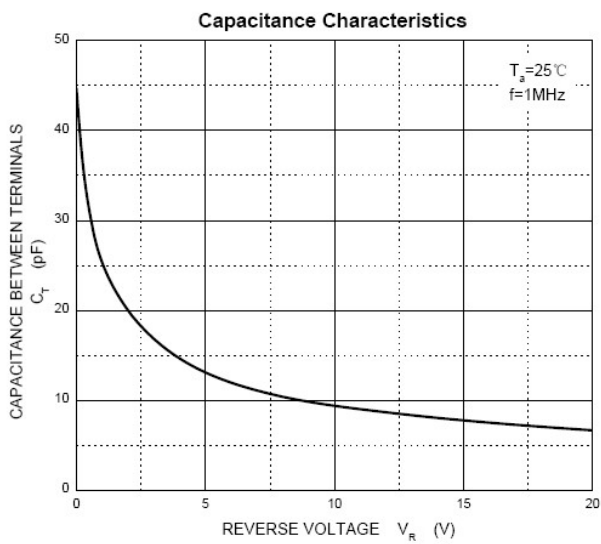
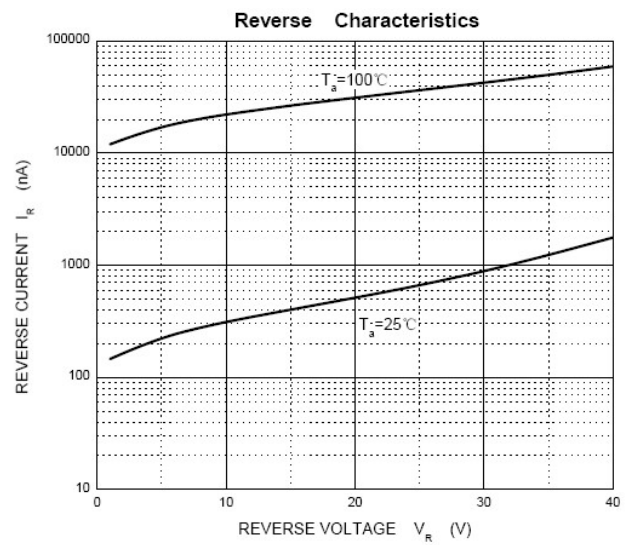
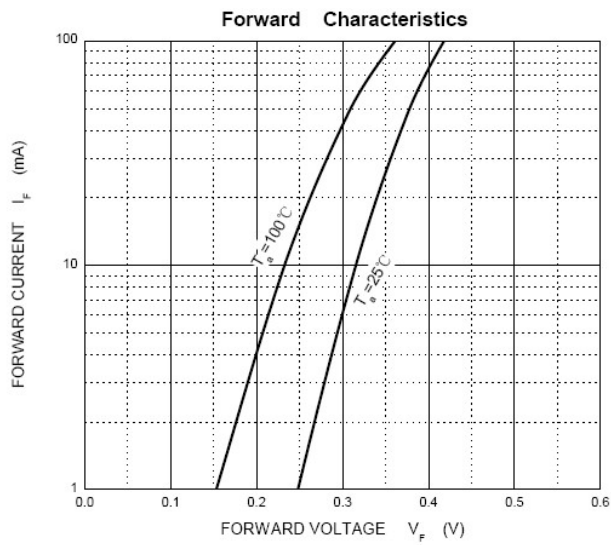
**Electrical Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified).

| Parameters                    | Test conditions | Symbol | Min. | Typ. | Max. | Unit |
|-------------------------------|-----------------|--------|------|------|------|------|
| Maximum forward voltage       | IF = 100mA      | VF     |      |      | 0.55 | V    |
|                               | IF = 10mA       |        |      |      | 0.34 |      |
| Maximum reverse current       | VR=10V          | IR     |      |      | 30   | uA   |
| Capacitance between terminals | VR=10V, f=1MHz  | CT     |      | 6    |      | pF   |

**Pinning**

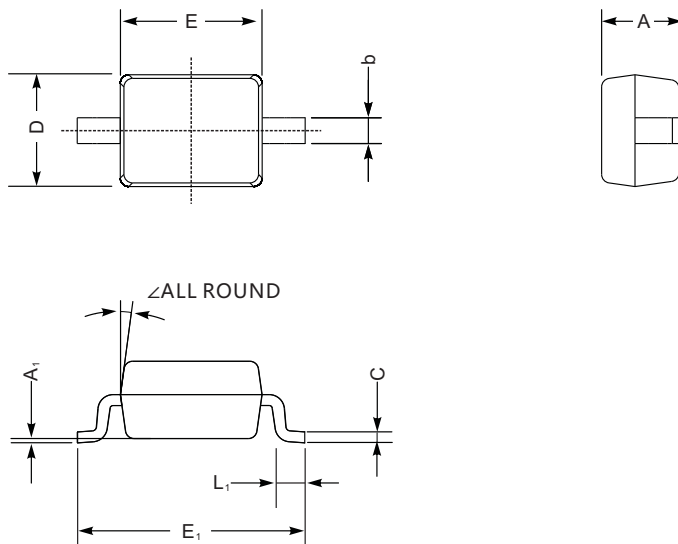
| 1.Cathode                                                                           | 2.Anode |
|-------------------------------------------------------------------------------------|---------|
|  |         |
| SOD-323                                                                             |         |



## Package Outline

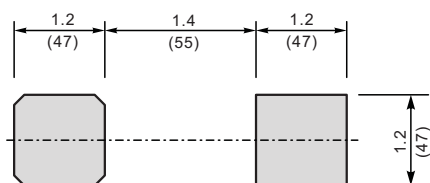
## SOD-323

Plastic surface mounted package; 2 leads



| UNIT |     | A   | C    | D   | E   | E <sub>1</sub> | b    | L <sub>1</sub> | A <sub>1</sub> | ∠  |
|------|-----|-----|------|-----|-----|----------------|------|----------------|----------------|----|
| mm   | max | 1.1 | 0.15 | 1.4 | 1.8 | 2.75           | 0.4  | 0.45           | 0.2            | 9° |
|      | min | 0.8 | 0.08 | 1.2 | 1.4 | 2.55           | 0.25 | 0.2            | —              |    |
| mil  | max | 43  | 5.9  | 55  | 70  | 108            | 16   | 16             | 8              |    |
|      | min | 32  | 3.1  | 47  | 63  | 100            | 9.8  | 7.9            | —              |    |

### The recommended mounting pad size



Unit:  $\frac{\text{mm}}{(\text{mil})}$

## Summary of Packing Options

| Package | Packing Description | Packing Quantity | Industry Standard |
|---------|---------------------|------------------|-------------------|
| SOD-323 | Tape/Reel, 7" reel  | 3000             | EIA-481-1         |

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