

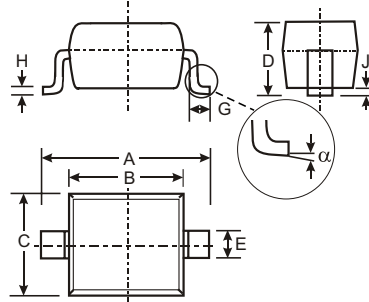
### Features

- Low forward voltage
- Fast Reverse Recovery Time
- Small Total Capacitance



### Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: See : 3
- Mounting Position: Any
- Approx. Weight: 0.006 grams



| SOD-323              |              |      |
|----------------------|--------------|------|
| Dim                  | Min          | Max  |
| A                    | 2.30         | 2.70 |
| B                    | 1.60         | 1.80 |
| C                    | 1.20         | 1.40 |
| D                    | 1.05 Typical |      |
| E                    | 0.25         | 0.35 |
| G                    | 0.20         | 0.40 |
| H                    | 0.10         | 0.15 |
| J                    | 0.05 Typical |      |
| $\alpha$             | 0°           | 8°   |
| All Dimensions in mm |              |      |

### Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Parameter                      | Symbol    | Value         | Unit |
|--------------------------------|-----------|---------------|------|
| Maximum (Peak) Reverse Voltage | $V_{RM}$  | 85            | V    |
| Reverse Voltage                | $V_R$     | 80            | V    |
| Average Forward Current        | $I_O$     | 100           | mA   |
| Maximum (Peak) Forward Current | $I_{FM}$  | 200           | mA   |
| Surge Forward Current (10 ms)  | $I_{FSM}$ | 1             | A    |
| Power Dissipation              | $P_{tot}$ | 200           | mW   |
| Junction Temperature           | $T_j$     | 125           | °C   |
| Storage Temperature Range      | $T_{stg}$ | - 55 to + 125 | °C   |

### Characteristics at $T_a = 25^\circ\text{C}$

| Parameter                                                           | Symbol   | Max.       | Unit          |
|---------------------------------------------------------------------|----------|------------|---------------|
| Forward Voltage<br>at $I_F = 100\text{ mA}$                         | $V_F$    | 1.2        | V             |
| Reverse Current<br>at $V_R = 30\text{ V}$<br>at $V_R = 80\text{ V}$ | $I_R$    | 0.1<br>0.5 | $\mu\text{A}$ |
| Total Capacitance<br>at $f = 1\text{ MHz}$                          | $C_T$    | 3          | pF            |
| Reverse Recovery Time<br>at $I_F = 10\text{ mA}$                    | $t_{rr}$ | 4          | ns            |

