

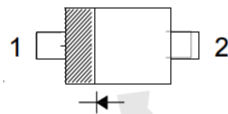
### Features

- Low forward voltage
- Fast Reverse Recovery Time
- Small TotalCapacitance

### Application

- Ultra high speed switching

### Dimensions and Pin Configuration



| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |

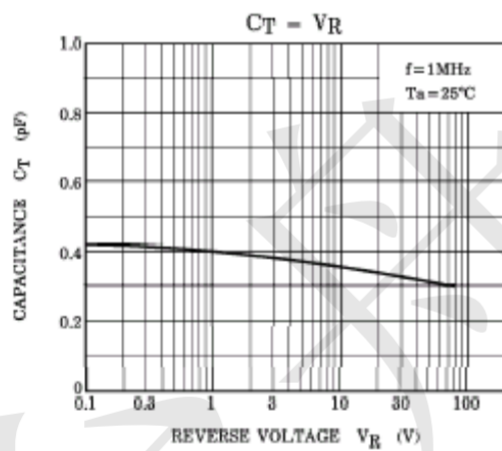
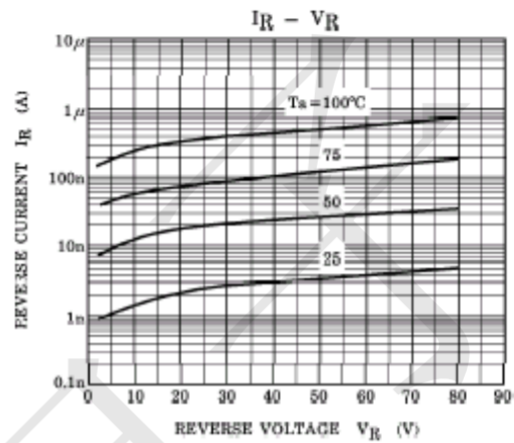
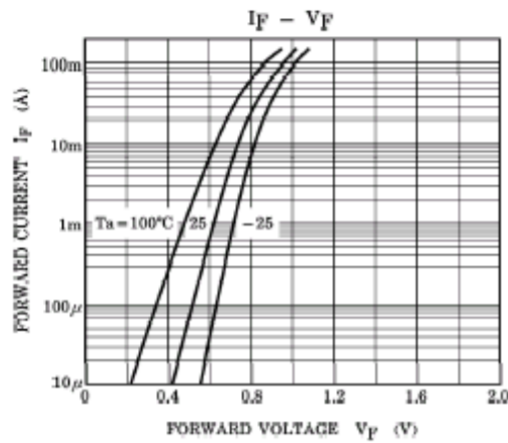
### Absolute Maximum Ratings (T<sub>amb</sub>=25°C unless otherwise specified)

| Parameter                         | Symbol             | Value         | Unit |
|-----------------------------------|--------------------|---------------|------|
| Maximum (Peak) Reverse Voltage    | V <sub>RM</sub>    | 85            | V    |
| Reverse Voltage                   | V <sub>R</sub>     | 80            | V    |
| Average Rectified Forward Current | I <sub>F(AV)</sub> | 100           | mA   |
| Maximum (Peak) Forward Current    | I <sub>FM</sub>    | 200           | mA   |
| Surge Forward Current (10 ms)     | I <sub>FSM</sub>   | 1             | A    |
| Power Dissipation                 | P <sub>tot</sub>   | 200           | mW   |
| Junction Temperature              | T <sub>j</sub>     | 150           | °C   |
| Storage Temperature Range         | T <sub>stg</sub>   | - 55 to + 150 | °C   |

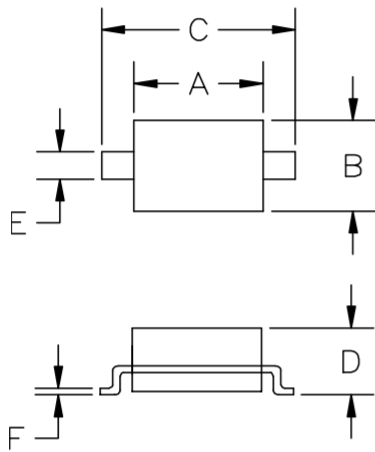
**Electrical Characteristics** (TA=25°C unless otherwise specified)

| 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 $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$                                                    | $C_T$    | 3          | pF            |
| Reverse Recovery Time<br>at $I_F = 10 \text{ mA}$ to $I_R = 1 \text{ mA}$ , $V_R = 6 \text{ V}$ , $R_L = 100 \Omega$ | $t_{rr}$ | 4          | ns            |

**Typical Performance Characteristics (TA=25°C unless otherwise Specified)**

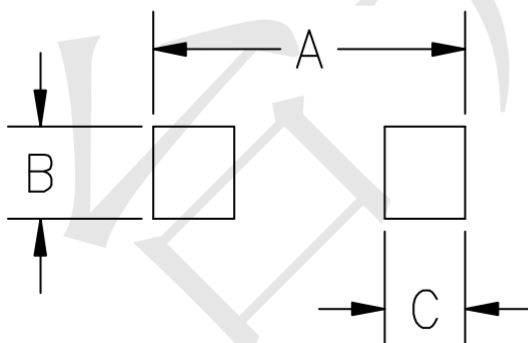


**Outline Drawing - SOD-323**



| SYM | DIMENSIONS  |      |        |       |
|-----|-------------|------|--------|-------|
|     | MILLIMETERS |      | INCHES |       |
|     | MIN         | MAX  | MIN    | MAX   |
| A   | 1.50        | 1.80 | 0.060  | 0.071 |
| B   | 1.20        | 1.40 | 0.045  | 0.054 |
| C   | 2.30        | 2.70 | 0.090  | 0.107 |
| D   | -           | 1.10 | -      | 0.043 |
| E   | 0.30        | 0.40 | 0.012  | 0.016 |
| F   | 0.10        | 0.25 | 0.004  | 0.010 |
| H   | -           | 0.10 | -      | 0.004 |

**Land Pattern - SOD-323**



| SYM | DIMENSIONS  |        |
|-----|-------------|--------|
|     | MILLIMETERS | INCHES |
| A   | 3.15        | 0.120  |
| B   | 0.80        | 0.031  |
| C   | 0.80        | 0.031  |