

## Features

- Small Surface Mounting Type
- Low VF
- High Reliability

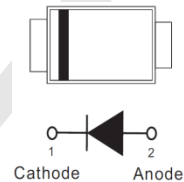
## APPLICATIONS

- High Frequency Rectification Switching Regulators

SOD323



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



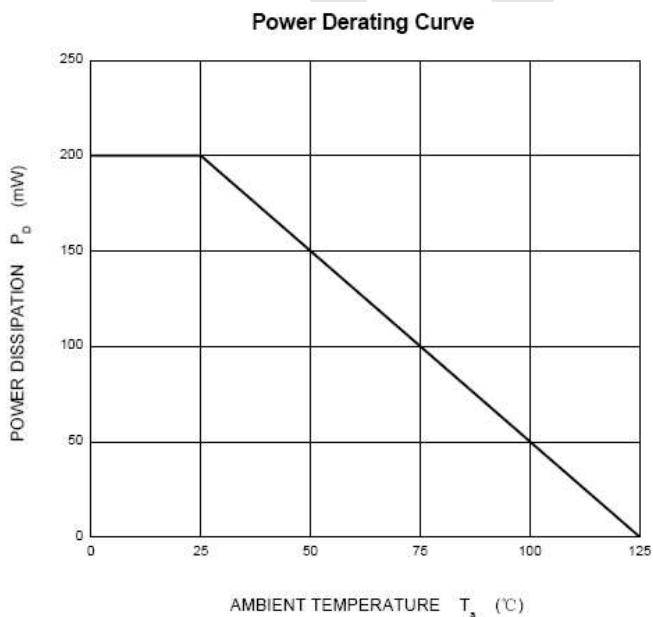
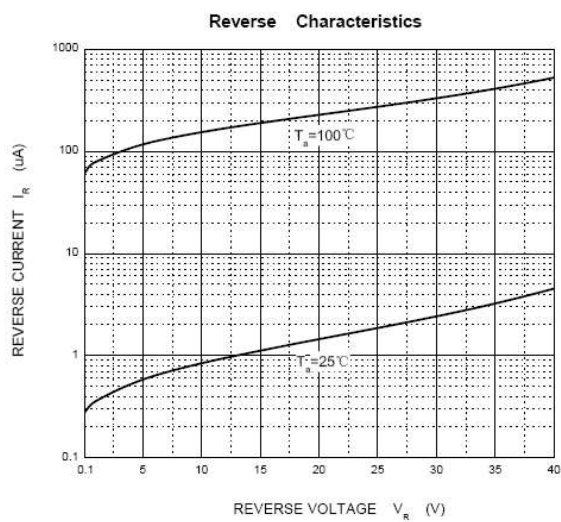
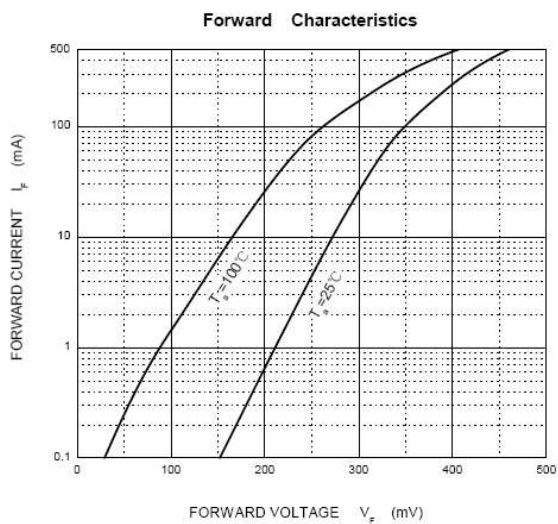
**MAXIMUM RATINGS**  $T_J=25^{\circ}\text{C}$  unless otherwise noted

| Parameter                                   | Symbol          | Value       | Unit                 |
|---------------------------------------------|-----------------|-------------|----------------------|
| Non-Repetitive Peak Reverse Voltage         | $V_{RM}$        | 40          | V                    |
| Mean rectifying current                     | $I_O$           | 0.5         | A                    |
| Peak forward surge current                  | $I_{FSM}$       | 2           | A                    |
| Power Dissipation                           | $P_D$           | 200         | mW                   |
| Thermal Resistance From Junction To Ambient | $R_{\theta JA}$ | 500         | $^{\circ}\text{C/W}$ |
| Junction temperature                        | $T_J$           | 125         | $^{\circ}\text{C}$   |
| Storage temperature                         | $T_{stg}$       | -55 to +150 | $^{\circ}\text{C}$   |

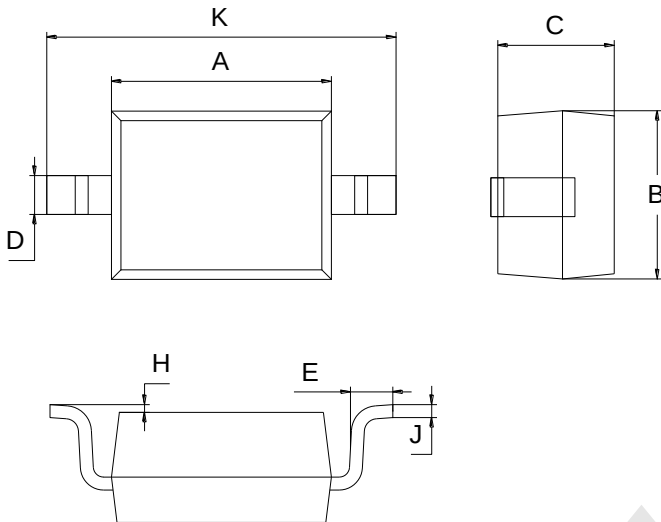
**ELECTRICAL CHARACTERISTICS**  $T_J=25^\circ\text{C}$  unless otherwise noted

| Parameter       | Symbol     | Min. | Typ. | Max. | Unit          | Conditions         |
|-----------------|------------|------|------|------|---------------|--------------------|
| Forward voltage | $V_F$      |      |      | 0.47 | V             | $I_F=500\text{mA}$ |
| Reverse voltage | $V_{(BR)}$ | 40   |      |      | V             | $I_R=0.1\text{mA}$ |
| Reverse current | $I_R$      |      |      | 100  | $\mu\text{A}$ | $V_R=40\text{V}$   |

**TYPICAL CHARACTERISTICS** @  $T_a=25^\circ\text{C}$  unless otherwise specified



**Outline Drawing - SOD323 (unit: mm)**



| SOD-323   |      |      |
|-----------|------|------|
| Dimension | Min. | Max. |
| A         | 1.60 | 1.80 |
| B         | 1.20 | 1.40 |
| C         | 0.80 | 0.90 |
| D         | 0.25 | 0.35 |
| E         | 0.22 | 0.42 |
| H         | 0.02 | 0.10 |
| J         | 0.05 | 0.15 |
| K         | 2.55 | 2.75 |

**Mounting Pad Layout-SOD323 (unit: mm)**

