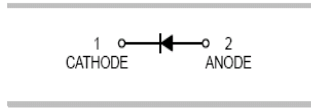
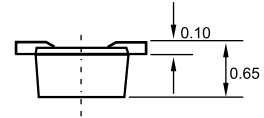
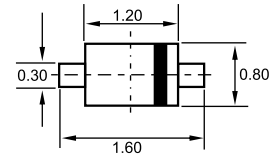


# 1SS387

High Speed Switching Diodes



## SOD-523



Dimensions in inches and (millimeters)

## Features

- ✧ Low forward voltage.
- ✧ Fast reverse recovery time.
- ✧ Small total capacitance.

## Applications

- ✧ High-speed switching in surface mounted circuits.

## Ordering Information

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| 1SS387   | G       | SOD-523      |

MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter                       | Symbol    | Limits  | Unit |
|---------------------------------|-----------|---------|------|
| Repetitive peak reverse voltage | $V_{RRM}$ | 85      | V    |
| Reverse voltage                 | $V_R$     | 80      | V    |
| Continuous forward current      | $I_F$     | 100     | mA   |
| Surge current                   | $I_{FSM}$ | 1       | A    |
| Total power dissipation         | $P_{tot}$ | 150     | mW   |
| Junction temperature            | $T_j$     | 125     | °C   |
| Storage temperature             | $T_{stg}$ | -55-125 | °C   |

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Parameter             | Symbol   | Min. | Typ. | Max. | Unit    | Conditions      |
|-----------------------|----------|------|------|------|---------|-----------------|
| Forward voltage       | $V_F$    |      | 0.62 |      | V       | $I_F=1mA$       |
|                       |          |      | 0.75 |      | V       | $I_F=10mA$      |
|                       |          |      | 0.98 | 1.2  | V       | $I_F=100mA$     |
| Reverse current       | $I_R$    |      |      | 0.1  | $\mu A$ | $V_R=30V$       |
|                       |          |      |      | 0.5  | $\mu A$ | $V_R=80V$       |
| Diode capacitance     | $C_d$    |      | 0.5  | 3    | pF      | $V_R=0, f=1MHz$ |
| Reverse recovery time | $t_{rr}$ |      | 1.6  | 4    | ns      | $I_F=10mA$      |

# 1SS387

## High Speed Switching Diodes

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

