

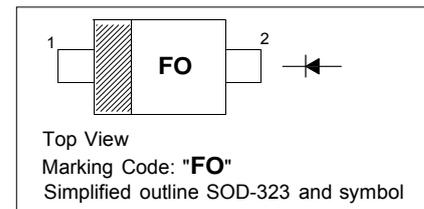
SMALL SIGNAL SCHOTTKY DIODE

Features

- Low turn-on voltage low capacitance
- Ultrafast switching
- Ideal for single or double, UHF balanced mixer, modulators and phase detectors

PINNING

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



Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|--|-----------------|---------------|--------------------|
| Reverse Voltage | V_R | 4 | V |
| Forward Current | I_F | 30 | mA |
| Power Dissipation | P_{tot} | 150 | mW |
| Thermal resistance junction to ambient air ¹⁾ | $R_{\theta JA}$ | 500 | $^\circ\text{C/W}$ |
| Junction Temperature | T_J | 125 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | - 65 to + 150 | $^\circ\text{C}$ |

¹⁾ Valid provided that electrodes are kept at ambient temperature.

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

| Parameter | Symbol | Min. | Max. | Unit |
|--|-------------|--------|--------------|---------------|
| Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$ | $V_{(BR)R}$ | 4 | - | V |
| Maximum Forward Voltage at $I_F = 10\text{ mA}$ | V_F | - | 600 | mV |
| Reverse Leakage Current at $V_R = 3\text{ V}$ at $V_R = 3\text{ V}$, $T_a = 60\text{ }^\circ\text{C}$ | I_R | - - | 0.25 1.25 | μA |
| Diode Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$ | C_D | - | 1 | pF |

