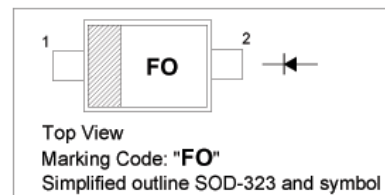


**SMALL SIGNAL SCHOTTKY DIODE**
**Features**

- 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 <sup>1)</sup> | $R_{\theta JA}$ | 500           | $^\circ\text{C/W}$ |
| Junction Temperature                                     | $T_J$           | 125           | $^\circ\text{C}$   |
| Storage Temperature                                      | $T_{stg}$       | - 65 to + 150 | $^\circ\text{C}$   |

<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature.

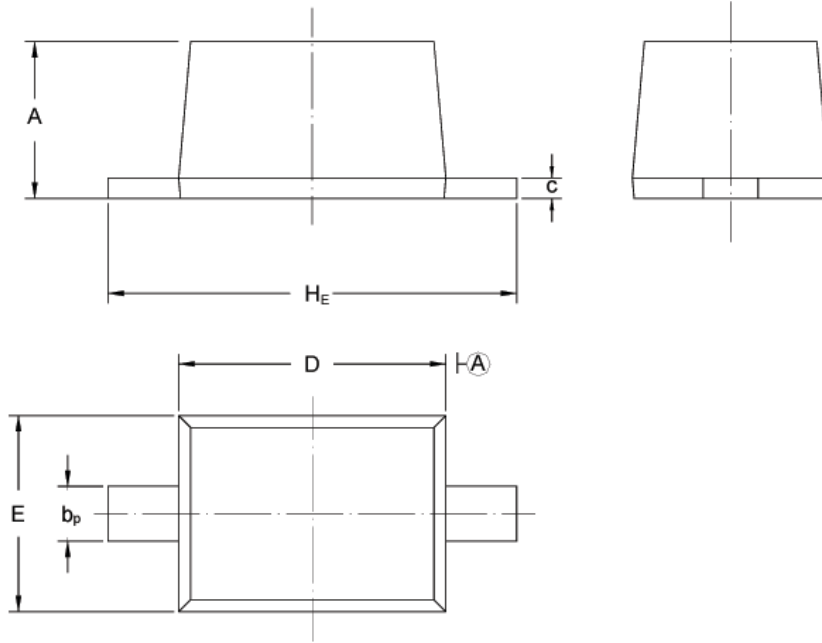
**Characteristics  $T_a = 25\text{ }^\circ\text{C}$** 

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

**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-323



| UNIT | A            | $b_p$        | C            | D            | E            | $H_E$        |
|------|--------------|--------------|--------------|--------------|--------------|--------------|
| mm   | 1.10<br>0.80 | 0.40<br>0.25 | 0.15<br>0.10 | 1.80<br>1.60 | 1.35<br>1.15 | 2.80<br>2.30 |

