#### SCHOTTKY BARRIER DIODE

#### **Features**

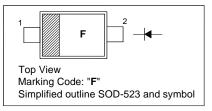
- Ultra small SMD package
- Very low forward voltage

## **Applications**

- Ultra high speed switching
- Voltage clamping
- Low current rectification

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



## Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	20	V
Continuous Forward Current	I <sub>F</sub>	500	mA
Repetitive Peak Forward Current (at tp = 1 ms)	I <sub>FRM</sub>	3.5	А
Non-Repetitive Peak Forward Surge Current (t = 8 ms square wave)	I <sub>FSM</sub>	6	А
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	Ts	- 65 to + 150	°C

# Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1$ mA at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 100$ mA at $I_F = 500$ mA	V <sub>F</sub>	180 240 290 380 650	mV
Reverse Current at $V_R = 10 \text{ V}$	I <sub>R</sub>	30	μΑ
Diode Capacitance at $V_R = 1 \text{ V}$ , $f = 1 \text{ MHz}$	C <sub>d</sub>	30	pF







## **PACKAGE OUTLINE**

## Plastic surface mounted package; 2 leads

**SOD-523** 

