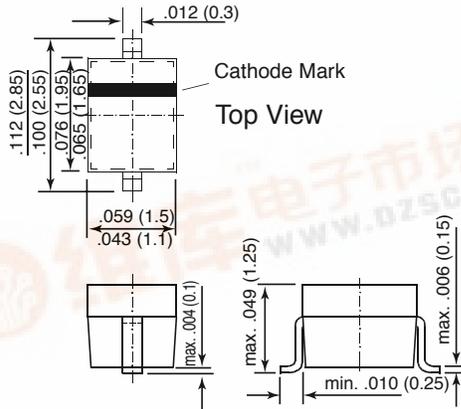


# SD107WS

## SCHOTTKY DIODES

## SOD-323



Dimensions in inches and (millimeters)

## FEATURES

- ◆ Low turn-on voltage
- ◆ Fast switching
- ◆ Microminiature plastic package
- ◆ These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge.
- ◆ Ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications.



## MECHANICAL DATA

Case: SOD-323 Plastic Package

Weight: approx. 0.004g

Marking Code: S1

## MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V <sub>R</sub>	30	Volts
Forward Current	I <sub>F</sub>	100	mA
Forward Surge Current, t <sub>p</sub> = 10ms	I <sub>FSM</sub>	0.75	A
Power Dissipation T <sub>C</sub> = 25°C	P <sub>tot</sub>	250 (NOTE 1)	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	500	°C/W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>S</sub>	-65 to + 150	°C

## NOTES:

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

## ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	BV <sub>R</sub>	30	–	–	Volts
Leakage Current at V <sub>R</sub> = 25 V	I <sub>R</sub>	–	–	1000	nA
Forward Voltage at I <sub>F</sub> = 2.0 mA	V <sub>F</sub>	–	300	–	mV
at I <sub>F</sub> = 15 mA	V <sub>F</sub>	–	360	–	mV
at I <sub>F</sub> = 50 mA	V <sub>F</sub>	–	470	550	mV
at I <sub>F</sub> = 100mA	V <sub>F</sub>	–	580	800	mV
Junction Capacitance at V <sub>R</sub> = 10V, f = 1.0MHz	C <sub>tot</sub>	–	–	Max 7.0	pF