

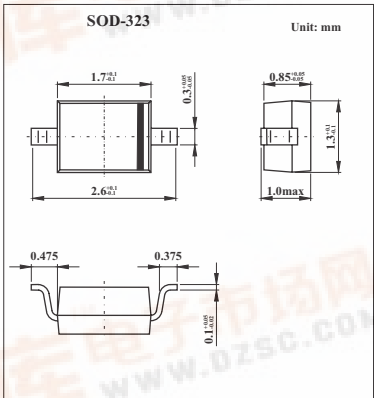
SMD Type

Diodes

SCHOTTKY DIODE
SD107WS

■ Features

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



■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	VR	30	Volts
Forward Current	IF	100	mA
Forward Surge Current, tp = 10 ms	IFSM	0.75	A
Power Dissipation Tc = 25 °C	Ptot	250(Note 1)	mW
Thermal Resistance Junction to Ambient Air	RθJA	500	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature Range	Ts	-65 to +150	°C

Note:

1. Valid provided that electrodes are kept at ambient temperature

■ Electrical Characteristics Ta = 25℃

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage at IR = 100 μ A	BVR	30			Volts
Leakage Current at VR = 25 V	IR			1000	μ A
Forward Voltage at IF = 2.1 mA	VF		260		mV
Forward Voltage at IF = 15 mA			360		
Forward Voltage at IF = 100 mA			470	550	
Forward Voltage at IF = 200 mA			580	880	
Junction Capacitance at VR = 10 V, f = 1.0 MHz	Ctot			7.0	pF

■ Marking

Marking	S1
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