

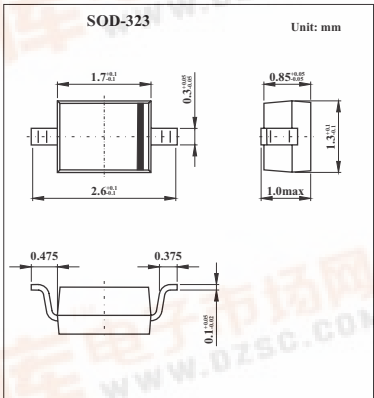
SMD Type

Diodes

SURFACE MOUNT SCHOTTKY BARRIER DIODE
SD103BWS

■ Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Capacitance
- Ultra-small Surface Mount Package



■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse voltage	VRRM		
Working Peak Reverse Voltage	VRWM	30	V
DC Blocking Volatge	VR		
RMS Reverse Voltage	VR(RMS)	21	V
Forward Continuous Current (Note 1)	IFM	350	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s	IFSM	1.5	A
Power Dissipation (Note1)	Pd	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	625	℃/W
Operating and Storage Temperature Range	Tj, TSTG	-65 to +125	℃

Note:

1. Part mounted on FR-4 PC borad with recommended pad layout.

■ Electrical Characteristics Ta = 25℃

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage (Note 2)	V(BR)R	VR = 10 μA	30			V
Forward Voltage Drop (Note 2)	VFM	IF = 20 mA IF = 100 mA			0.37 0.6	V
Peak Reverse Leakage Current (Note 2)	IRM	VR = 20 V			5.0	μA
Total Capacitance	CT	VR = 0 V, f = 1.0 MHz		50		pF
Reverse Recovery Time	trr	IF = IR = 200 mA Irr = 0.1 x IR, RL = 100 Ω		10		ns

Note:

2. Short duration test pulse used to minimize self-heating effect.

■ Marking

Marking	S5
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