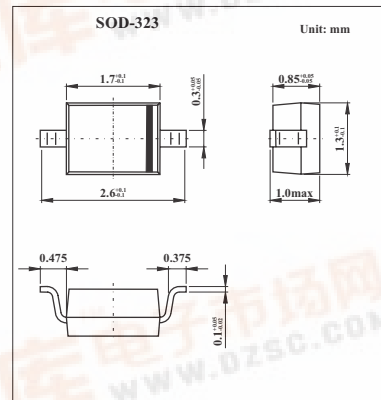


SMD Type Diodes

SURFACE MOUNT SCHOTTKY BARRIER DIODE

SD101CWS



■ 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°C

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse voltage	VRRM		
Working Peak Reverse Voltage	VRWM	40	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	28	V
Forward Continuous Current (Note 1)	IFM	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10 μs	IFSM	50	mA
		2.0	A
Power Dissipation (Note1)	Pd	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	625	°C/W
Operating and Storage Temperature Range	Tj, TSTG	-65 to+125	°C

Note:

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

■ Electrical Characteristics Ta = 25°C

Characteristic	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage (Note 2)	V(BR)R	VR = 10 μA	40		V
Forward Voltage Drop (Note 2)	VFM	IF = 1.0 mA		0.39	V
		IF = 15 mA		0.9	
Peak Reverse Leakage Current (Note 2)	IRM	VR = 30 V		200	μA
Total Capacitance	CT	VR = 0 V, f = 1.0 MHz		2.2	pF
Reverse Recovery Time	trr	IF = IR = 5.0 mA Irr = 0.1 x IR, RL = 100 Ω		1.0	ns

Note:

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

■ Marking

Marking	S3
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