

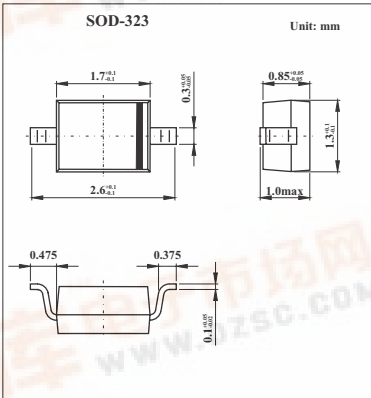
SMD Type

Diodes

SURFACE MOUNT SCHOTTKY BARRIER DIODE
1N5711WS

■ Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Speed
- Low Capacitance
- Surface Mount Package Ideally Suited for Automatic Insertion



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse voltage	VRRM		
Working Peak Reverse Voltage	VRWM	70	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	49	V
Forward Continuous Current	IFM	15	mA
Power Dissipation (Note1)	Pd	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	650	°C/W
Operating and Storage Temperature Range	Tj	-55 to +125	°C
Storage Temperature Range	TSTG	-55 to +150	°C

Note:

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

■ Electrical Characteristics Ta = 25°C

Characteristic	Symbol	Test Condition	Min	TYP	Max	Unit
Reverse Breakdown Voltage (Note 2)	V(BR)R	IR = 10 μA	70			V
Reverse Leakage Current (Note 2)	IR	VR = 50 V			200	nA
Forward Voltage Drop (Note 2)	VF	IF = 1.0 mA			0.41	V
		IF = 15 mA			1.00	
Total Capacitance	CT	VR = 0 V, f = 1.0 MHz			2.0	pF
Reverse Recovery Time	trr	IF = IR = 5.0 mA Irr = 0.1 x IR, RL = 100 Ω			1.0	ns

Note:

2. Measured with IF = IR = 10 mA, Irr = 0.1 x IR, RL = 100 Ω.

■ Marking

Marking	SA
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