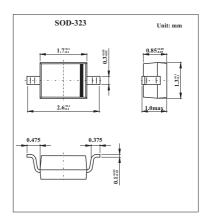
SMD Type Diodes

SURFACE MOUNT SCHOTTKY BARRIER DIODE SD101BWS

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

Paramater	Symbol	Value	Unit
Peak Repetitive Reverse voltage VRRM			
Working Peak Reverse Voltage	VRWM	50	V
DC Blocking Volatge	VR		
RMS Reverse Voltage	VR(RMS)	35	V
Forward Continuous Current (Note 1)	Iғм	15	mA
Non-Repetitive Peak Forward Surge Current @ $t \le 1.0s$	IFSM	50	mA
@ t = 10 μs	ILOM	2.0	Α
Power Dissipation (Note1)	Pd	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	Reja	625	°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to+125	$^{\circ}$

Note:

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

SMD Type Diodes

SURFACE MOUNT SCHOTTKY BARRIER DIODE SD101BWS

■ Electrical Characteristics Ta = 25°C

Characteristic	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage (Note 2)	V(BR)R	VR = 10 μ A	50		V
Forward Voltage Drop (Note 2)	VFM	IF = 1.0 mA		0.4	V
	V FIVI	IF = 15 mA		0.95	
Peak Reverse Leakage Current (Note 2)	lгм	VR = 40 V		200	μА
Total Capacitance	Ст	VR = 0 V, f = 1.0 MHz		2.1	pF
Reverse Recovery Time	trr	IF = IR = 5.0 mA		1.0	ns
	LII	Irr = 0.1 x IR, RL = 100 Ω		1.0	

Note:

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

Marking

Marking	S2
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