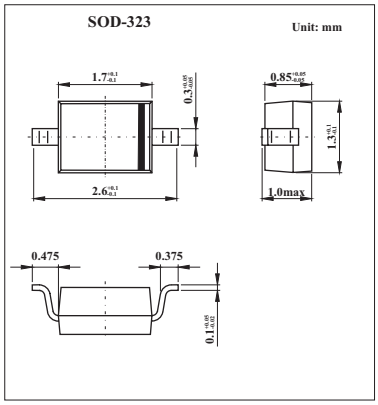
SURFACE MOUNT SCHOTTKY BARRIER DIODE

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℃

Paramater	Symbol	Value	Unit
Peak Repetitive Reverse voltage Working Peak Reverse Voltage DC Blocking Volatge	V_{RRM} V_{RWM} V_R	50	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	V
Forward Continuous Current (Note 1)	I_{FM}	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10 μs	I_{FSM}	50 2.0	mA A
Power Dissipation (Note1)	P_d	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	625	℃/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to+125	℃

Note:

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

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■ Electrical Characteristics Ta = 25℃

Characteristic	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	V_R = 10 μA	50		V
Forward Voltage Drop (Note 2)	V_{FM}	I_F = 1.0 mA		0.4	V
		I_F = 15 mA		0.95	
Peak Reverse Leakage Current (Note 2)	I_{RM}	V_R = 40 V		200	μA
Total Capacitance	C_T	V_R = 0 V, f = 1.0 MHz		2.1	pF
Reverse Recovery Time	t_{rr}	I_F = I_R = 5.0 mA Irr = 0.1 x I_R, R_L = 100 Ω		1.0	ns

Note:

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

■ Marking

Marking	S2