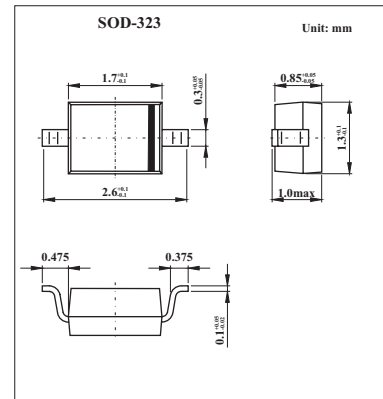


SURFACE MOUNT SCHOTTKY BARRIER DIODE

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	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	40	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current (Note 1)	I _{FM}	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s	I _{FSM}	50	mA
@ t = 10 μs		2.0	A
Power Dissipation (Note1)	P _d	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-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}	V _R = 10 μA	40		V
Forward Voltage Drop (Note 2)	V _{FM}	I _F = 1.0 mA		0.39	V
		I _F = 15 mA		0.9	
Peak Reverse Leakage Current (Note 2)	I _{RM}	V _R = 30 V		200	μA
Total Capacitance	C _T	V _R = 0 V, f = 1.0 MHz		2.2	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 5.0 mA I _{rr} = 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	S3
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