



WSR3010D1

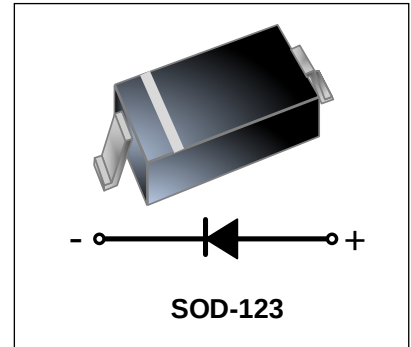
Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier
- RoHS Compliant / Green EMC
- Matte Tin (Sn) Lead Finish
- Cathode Band / Device marking
- SOD-123 Thin SMD Package

Applications

- Fast Switching RF and Digital Applications
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications



Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Non- Repetitive Peak Reverse Voltage	V_{RM}	30	V
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Average Rectified Output Current	I_O	1	A
Non- Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	10	A
Power Dissipation	P_D	500	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55 to 125	°C

Electrical Characteristics (Tamb=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 100\mu A$	30	-	-	V
Reverse Voltage Leakage Current	I_R	$V_R = 30V$	-	-	1	mA
Forward Voltage	V_F	$I_F = 1A$	-	-	0.55	V
		$I_F = 3A$	-	-	0.875	
Diode Capacitance	C_D	$V_R = 4V, f = 1MHz$	-	95	-	pF

Outline Drawing – SOD-123

PACKAGE OUTLINE

The image shows three technical drawings of the SOD-123 package. The top view shows a rectangular body with a central dashed line, a black rectangular mark on the right, and polarity markings (+ and -) on the left and right leads. Dimensions E, E1, and b are indicated. The side view shows the package height D, lead length A, and lead thickness A1. The cross-sectional view shows the lead angle θ , lead length L, lead thickness L1, and lead width c.

A 3D perspective view of the SOD-123 package, showing its rectangular shape and the two leads extending from the bottom.

SOD-123

DIMENSIONS

SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

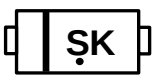
Notes

1. Controlling Dimensions in Millimeters.
2. Dimensions are exclusive of mold flash and metal burrs.

A dimensional drawing of the package footprint. It shows a central square pad with a width of 4.19 mm and a height of 1.22 mm. The distance from the left edge of the pad to the center of the pad is 2.36 mm. The distance from the right edge of the pad to the center of the pad is 0.91 mm. The distance from the bottom edge of the pad to the center of the pad is 0.91 mm.

DIMENSIONS: MILLIMETERS

Marking Codes

Part Number	WSR3010D1
Marking Code	

Package Information

Qty: 3k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.