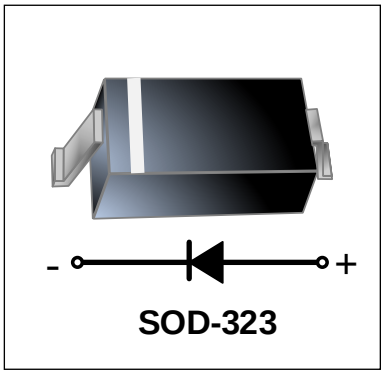
WSR3001D

Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier
- Very Small SMD Package



SOD-323

Applications

- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
DC Blocking Voltage	V_R	30	V
Forward Continuous Current (Max)	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-Repetitive Peak Forward Surge Current[1]	I_{FSM}	600	mA
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	125	℃
Storage Temperature	T_{STG}	-55 to +125	℃

Note1：8.3ms single half sine-wave.

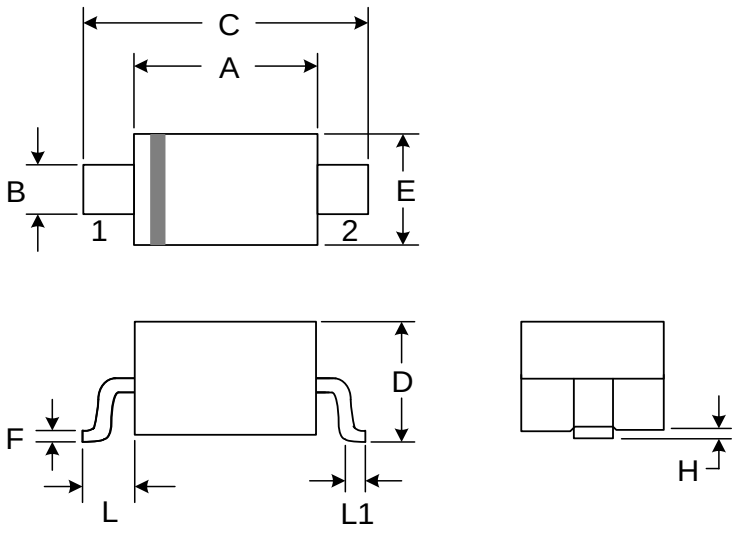
Electrical Characteristics (Tamb=25°C unless otherwise noted)

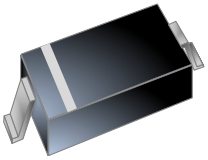
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R=100μA	30	-	-	V
Forward Voltage	V_F	I_F = 0.1mA	-	-	240	mV
		I_F = 1.0mA	-	-	320	
		I_F = 10mA	-	-	400	
		I_F = 30mA	-	-	500	
		I_F = 100mA	-	-	1000	
Reverse Current	I_R	V_R = 25V	-	-	2.0	μA
Capacitance	C_T	V_R = 1V, f = 1MHz	-	10	-	pF
Reverse Recovery Time	t_{rr}	I_F=10mA, I_R=10mA to 1mA R_L=100Ω	-	5.0	-	ns

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Outline Drawing – SOD-323

PACKAGE OUTLINE



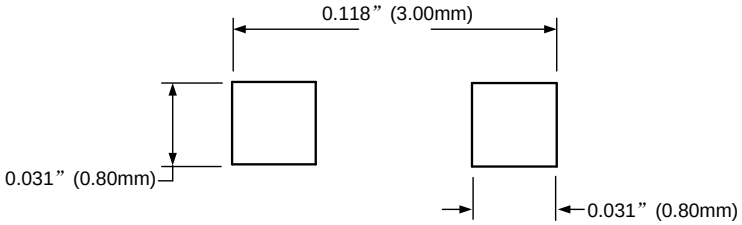


SOD-323

DIMENSIONS

SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	0.80	1.00	0.000	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475 REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.000	0.004

MOUNTING PAD



Notes

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

Marking Codes

Part Number	WSR3001D
Marking Code	**L9**

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.