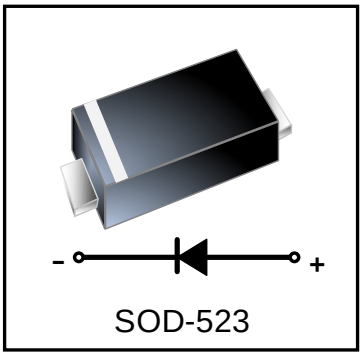
WSR4002D5H

Schottky Barrier Diode



SOD-523

Features

- Low Current Rectification
- Low Forward Voltage
- Matte Tin (Pb-Free) Lead Finish

Applications

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

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Reverse Stand-Off Voltage	V_{RWM}	40	V
Continuous Forward Current	I_O	200	mA
Non-repetitive Peak Forward Current @t=8.3ms	I_{FSM}	1	A
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55 to +125	°C

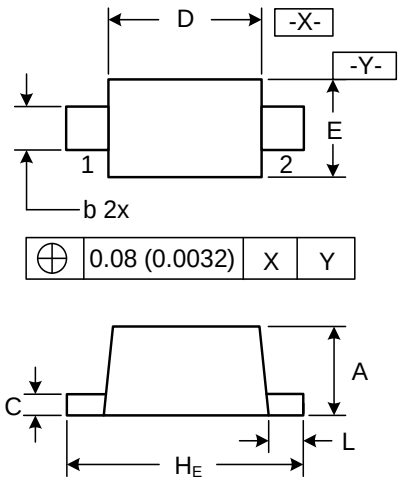
Electrical Characteristics (T_{amb}=25°C unless otherwise noted)

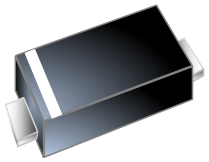
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R=500μA	40	-	-	V
Forward Voltage	V_F	I_F = 10mA	-	-	0.30	V
		I_F = 100mA	-	-	0.45	
		I_F = 200mA	-	-	0.54	
Reverse Current	I_R	V_R = 10V	-	-	20	μA
		V_R = 40V	-	-	90	

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Outline Drawing – SOD-523

PACKAGE OUTLINE

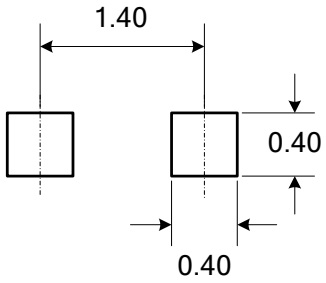




SOD-523

DIMENSIONS

SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	0.50	0.70	0.020	0.028
b	0.25	0.35	0.010	0.014
C	0.07	0.20	0.0028	0.0079
D	1.10	1.30	0.043	0.051
E	0.70	0.90	0.028	0.035
H_E	1.50	1.70	0.059	0.067
L	0.15	0.25	0.006	0.010



DIMENSIONS: MILLIMETERS

Notes

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

Marking Codes

Part Number	WSR4002D5H
Marking Code	S

Package Information

Qty：5k/Reel

CONTACT INFORMATION

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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.