



WSR4002D9

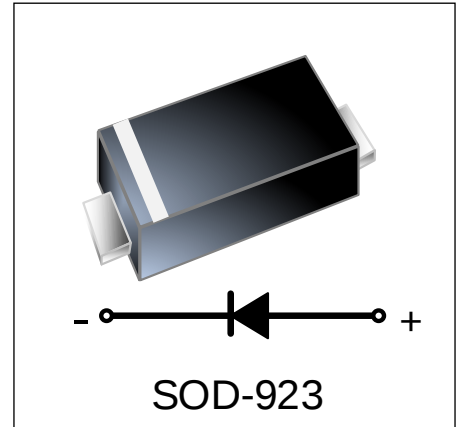
Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier

Applications

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



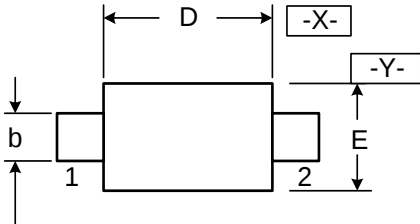
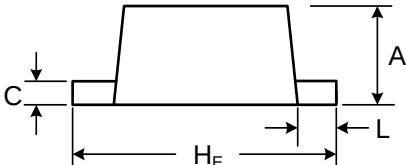
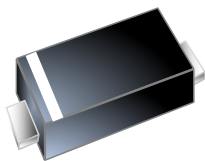
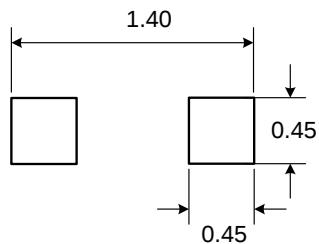
Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Reverse Voltage	V_R	30	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 ($T_{amb}=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I = 500\mu\text{A}$	40	-	-	V
Forward Voltage	V_F	$I_F = 10\text{mA}$	-	-	0.35	V
		$I_F = 200\text{mA}$	-	-	0.50	
Reverse Current	I_R	$V_R = 10\text{V}$	-	-	30	μA
		$V_R = 20\text{V}$	-	-	100	μA

Outline Drawing – SOD-923

PACKAGE OUTLINE  ⊕ 0.08 (0.0032) X Y 	 SOD-923 DIMENSIONS <table><tr><th rowspan="2">SYMBOL</th><th colspan="2">MILLIMETER</th><th colspan="2">INCHES</th></tr><tr><th>MIN</th><th>MAX</th><th>MIN</th><th>MAX</th></tr><tr><td>A</td><td>0.39</td><td>0.45</td><td>0.015</td><td>0.018</td></tr><tr><td>b</td><td>0.15</td><td>0.30</td><td>0.006</td><td>0.012</td></tr><tr><td>C</td><td>0.06</td><td>0.20</td><td>0.002</td><td>0.008</td></tr><tr><td>D</td><td>0.70</td><td>0.90</td><td>0.028</td><td>0.035</td></tr><tr><td>E</td><td>0.55</td><td>0.65</td><td>0.026</td><td>0.028</td></tr><tr><td>HE</td><td>0.90</td><td>1.10</td><td>0.035</td><td>0.043</td></tr><tr><td>L</td><td>0.05</td><td>0.15</td><td>0.002</td><td>0.006</td></tr></table>	SYMBOL	MILLIMETER		INCHES		MIN	MAX	MIN	MAX	A	0.39	0.45	0.015	0.018	b	0.15	0.30	0.006	0.012	C	0.06	0.20	0.002	0.008	D	0.70	0.90	0.028	0.035	E	0.55	0.65	0.026	0.028	HE	0.90	1.10	0.035	0.043	L	0.05	0.15	0.002	0.006
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 DIMENSIONS: MILLIMETERS	Notes 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETERS. 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL																																												

Marking Codes

Part Number	WSR4002D9
Marking Code	

Package Information

Qty: 10k/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.