



WSR4010D

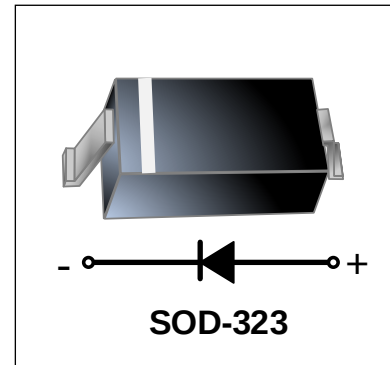
Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier
- RoHS Compliant / Green EMC
- Matte Tin (Sn) Lead Finish
- Cathode Band / Device Marking

Applications

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



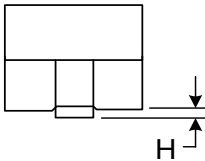
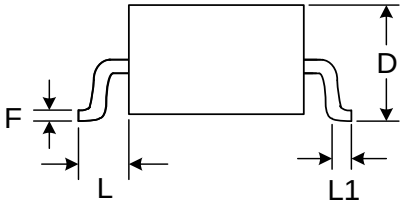
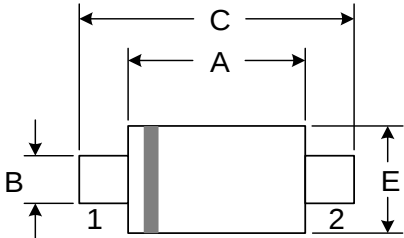
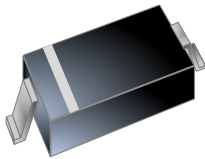
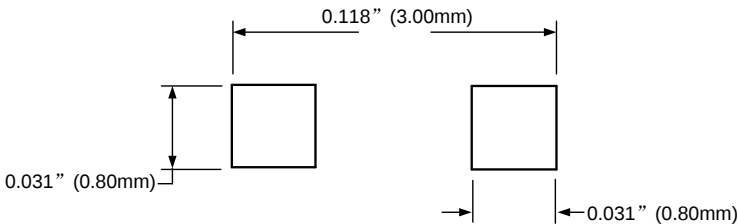
Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Non- Repetitive Peak Reverse Voltage	V_{RM}	40	V
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	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	200	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55to+125	°C

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 1mA$	40	-	-	V
Reverse Voltage Leakage Current	I_R	$V_R = 40V$	-	-	40	μA
Diode Capacitance	C_D	$V_R = 4V, f = 1MHz$	-	110	-	pF
Forward Voltage	V_F	$I_F = 1A$	-	-	0.57	V
		$I_F = 3A$	-	-	0.9	

Outline Drawing – SOD-323

PACKAGE OUTLINE 	 SOD-323 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>1.60</td><td>1.80</td><td>0.063</td><td>0.071</td></tr><tr><td>B</td><td>0.25</td><td>0.35</td><td>0.010</td><td>0.014</td></tr><tr><td>C</td><td>2.50</td><td>2.70</td><td>0.098</td><td>0.106</td></tr><tr><td>D</td><td>0.80</td><td>1.00</td><td>0.000</td><td>0.039</td></tr><tr><td>E</td><td>1.20</td><td>1.40</td><td>0.047</td><td>0.055</td></tr><tr><td>F</td><td>0.08</td><td>0.15</td><td>0.003</td><td>0.006</td></tr><tr><td>L</td><td colspan="2">0.475 REF</td><td colspan="2">0.019 REF</td></tr><tr><td>L1</td><td>0.25</td><td>0.40</td><td>0.010</td><td>0.016</td></tr><tr><td>H</td><td>0.00</td><td>0.10</td><td>0.000</td><td>0.004</td></tr></table>	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		0.019 REF		L1	0.25	0.40	0.010	0.016	H	0.00	0.10	0.000	0.004
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MOUNTING PAD 	Notes 1. Controlling Dimensions in Millimeters. 2. Dimensions are exclusive of mold flash and metal burrs.																																																						

Marking Codes

Part Number	WSR4010D
Marking Code	

Package Information

Qty: 3k/Reel

CONTACT INFORMATION

No.1001, Shiwan (7) Road, Pudong District, Shanghai, P.R.China.201207

Tel: 86-21-68969993 Fax: 86-21-50757680 Email: market@way-on.comWAYON website: <http://www.way-on.com>

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.