



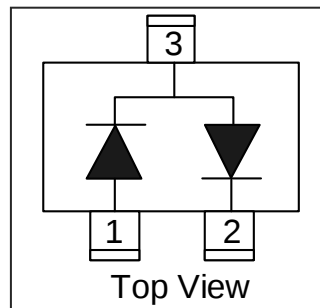
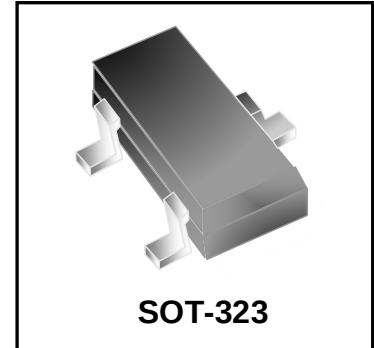
WSR3002W3

Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier
- High Conductance
- Low Current Leakage
- RoHS Compliant / Green EMC

Schematic & PIN Configuration



Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_R	30	V
Forward Continuous Current	I_F	200	mA
Power Dissipation	P_D	200	mW
Non-Repetitive Peak Forward Surge Current @ $t=10\text{ms}$	I_{FSM}	600	mA
Repetitive Peak Recovery Time	I_{FRM}	300	mA
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	$^{\circ}\text{C/W}$
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to 150	$^{\circ}\text{C}$

Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 100\mu\text{A}$	30	-	-	V
Reverse Voltage Leakage Current	I_R	$V_R = 25\text{V}$	-	-	2	μA
Forward Voltage	V_F	$I_F = 1\text{mA}$	-	-	0.32	V
		$I_F = 30\text{mA}$	-	-	0.5	
		$I_F = 100\text{mA}$	-	-	1	
Typical Junction Capacitance	C_J	$V_R = 1\text{V}, f=1.0\text{MHz}$	-	8	-	pF
Reverse Recovery Time	T_{rr}	$I_F=I_R=10\text{mA}, I_R=1\text{mA}, R_L=100\Omega$	-	4.5	-	ns

Outline Drawing –SOT-323

PACKAGE OUTLINE

Top view of the SOT-323 package. Dimensions shown: D (total width), E1 (height of the main body), E (total height), 1, 2, 3 (pin locations), e (pitch), e1 (distance between pins 1 and 2).

Side view of the SOT-323 package. Dimensions shown: A (height), A1 (height of the main body), b (width of the main body).

Side view of the SOT-323 package. Dimensions shown: L (length), c (height of the main body).

3D perspective view of the SOT-323 package. Pins 1, 2, and 3 are labeled.

SOT-323

DIMENSIONS

SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.10	0.035	0.043
A1	0.00	0.10	0.000	0.004
b	0.20	0.40	0.008	0.016
c	0.08	0.15	0.003	0.006
D	2.00	2.20	0.079	0.087
E	2.15	2.45	0.085	0.096
E1	1.15	1.35	0.045	0.053
e	0.65TYP		0.026TYP	
e1	1.20	1.40	0.047	0.055
L	0.525REF		0.021REF	

Top view of the SOT-323 package. Dimensions shown: b (width of the main body), z (height of the main body), c (height of the main body), M (height of the main body), e (pitch), e1 (distance between pins 1 and 2).

DIMENSIONS		
DIM	INCHES	MILLIMETERS
M	0.075	1.90
C	0.035	0.90
Z	0.110	2.80
e	0.025 BSC	0.65 BSC
e1	0.051BSC	1.3 BSC
b	0.024	0.60

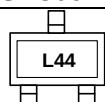
Notes

1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Inches
3. Pin 3 is the cathode (Unidirectional Only).
4. Dimensions are exclusive of mold flash and metal burrs.

Notes

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Marking Codes

Part Number	WSR3002W3
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.