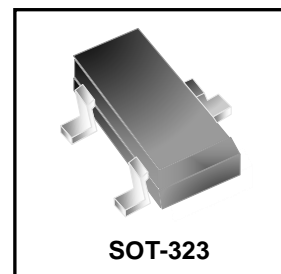


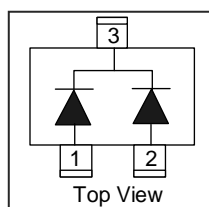
Schottky Barrier Diode

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 Reverse Voltage	V_{RRM}	30	V
Forward Current	I_F	200	mA
Power Dissipation	P_D	200	mW
Peak Forward Surge Current @ $t_p=10ms$	I_{FSM}	600	mA
Peak Repetitive Forward Current	I_{FRM}	300	mA
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	$^{\circ}C/W$
Junction Temperature	T_J	125	$^{\circ}C$
Storage Temperature	T_{stg}	-65 to 150	$^{\circ}C$

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 100\mu A$	30	-	-	V
Reverse Current	I_R	$V_R = 25V$	-	-	2	μA
Forward Voltage	V_F	$I_F = 0.1mA$			0.24	V
		$I_F = 1mA$	-	-	0.32	
		$I_F = 10mA$			0.40	
		$I_F = 30mA$	-	-	0.50	
		$I_F = 100mA$	-	-	1.00	
Typical Junction Capacitance	C_J	$V_R = 1V, f = 1.0MHz$	-	10	-	pF
Reverse Recovery Time	T_{rr}	$I_F = I_R = 10mA, I_R = 1mA, R_L = 100\Omega$	-	5	-	ns

Outline Drawing –SOT-323

PACKAGE OUTLINE

SOT-323

SYMBOL	MILLIMETERS		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	

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.

Marking Codes

Part Number	WSR3002W1
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.