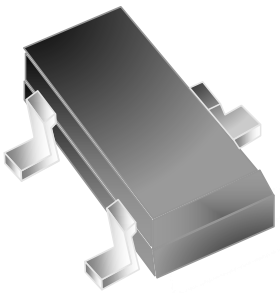
WSR3002W0-AT

Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier
- High Conductance
- Low Current Leakage
- RoHS Compliant / Green EMC
- AEC-Q101 Qualified

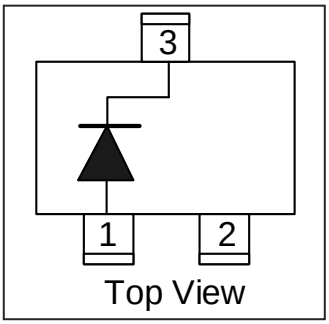


SOT-323

Applications

- Low Current Rectification
- Inverse Polarity Protection
- Low Power Consumption Applications

Schematic & PIN Configuration



Absolute Maximum Rating (T_{amb}=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	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	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature	T_{stg}	-65 to 150	°C

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R = 100μA	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=100Ω	-	-	5	ns

Typical Characteristics

Figure 1. Forward Characteristics

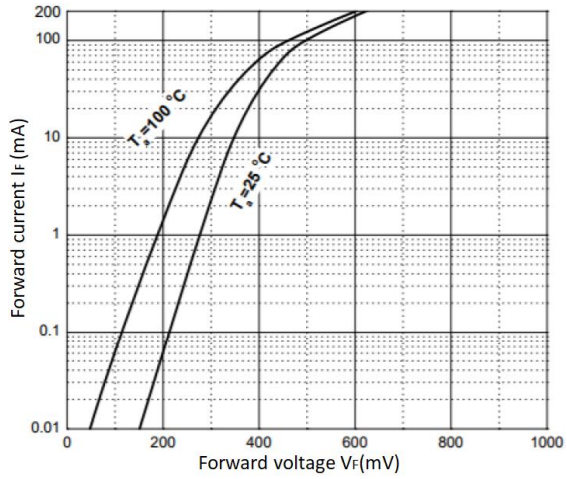


Figure 2. Reverse Characteristics

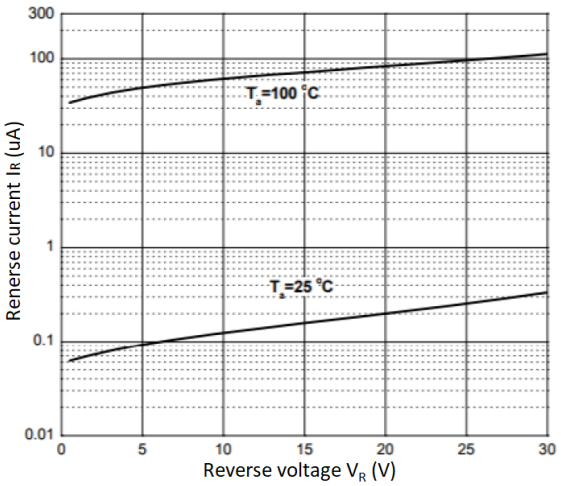


Figure 3. Capacitance Characteristics

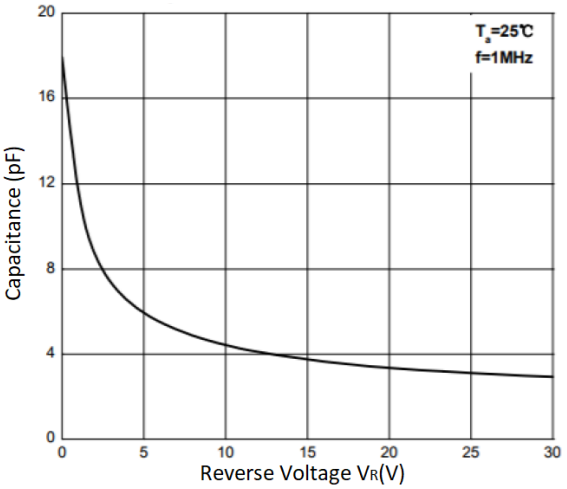
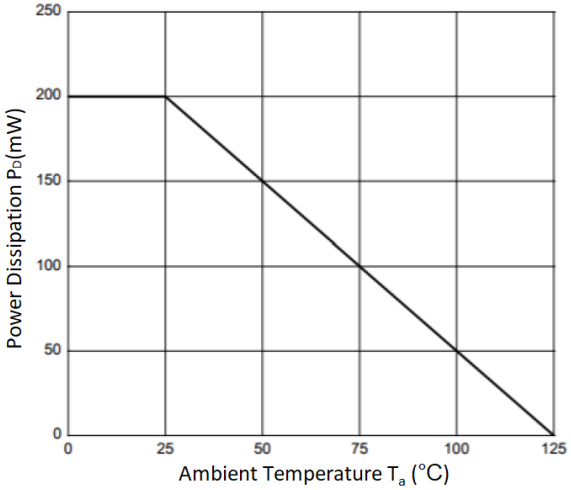
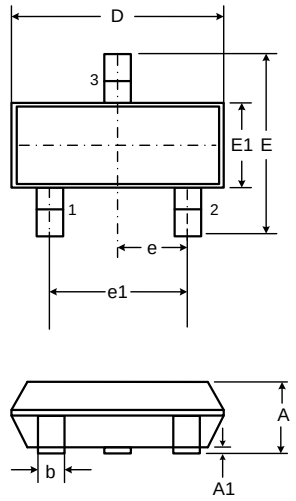


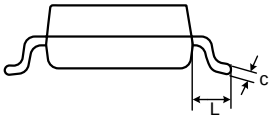
Figure 4. Power Derating Curve

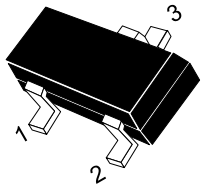


Outline Drawing –SOT-323

PACKAGE OUTLINE

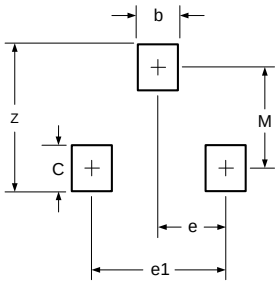






SOT-323

DIMENSIONS				
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	WSR3002W0-AT
Marking Code	KL5

Package Information

Qty：3k/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.