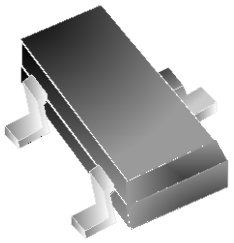
WSR3002T2

Schottky Barrier Diode

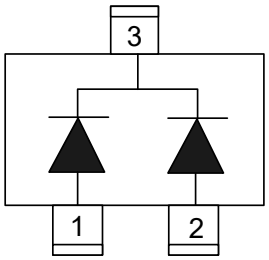
Features

- High Conductance
- Low Current Leakage
- Small Outline Surface Mount Package
- RoHS compliant / Green EMC



SOT-23

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=8.3ms	I_{FSM}	600	mA
Soldering temperature during		T_j	260	°C
Thermal Resistance Junction to Ambient		$R_{\theta JA}$	500	°C/W
Operating Junction Temperature Range		T_J	-55 to 125	°C
Storage Temperature Range		T_{stg}	-55 to 150	°C

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R = 100μA	30	-	-	V
Reverse Voltage Leakage Current	I_R	V_R = 25V	-	-	2	μA
Forward Voltage	V_F	I_F = 0.1mA	-	-	0.24	V
	V_F	I_F = 1mA	-	-	0.32	
	V_F	I_F = 10mA	-	-	0.40	
	V_F	I_F = 30mA	-	-	0.50	
	V_F	I_F = 100mA	-	-	1.00	
Typical Junction Capacitance	C_J	VR=1V, f=1.0MHz	-	9	-	pF
Reverse Recovery Time	T_{rr}	I_F=I_R=10mA,$I_{(REC)}$=1mA	-	-	4	ns

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Typical Characteristics

Figure 1. Forward Characteristics

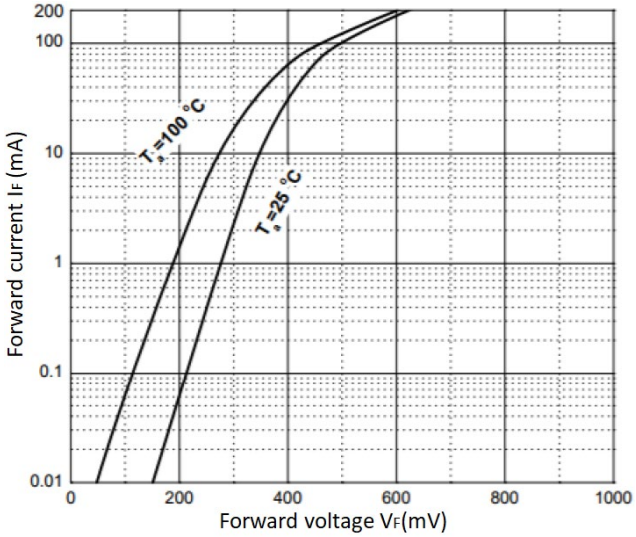


Figure 2. Reverse Characteristics

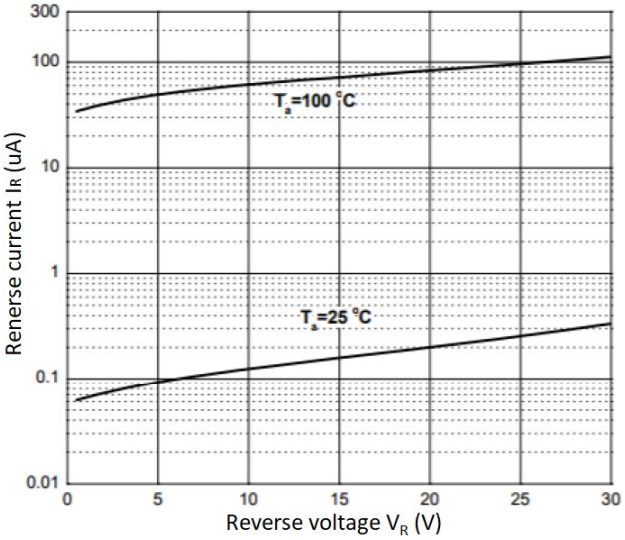


Figure 3. Capacitance Characteristics

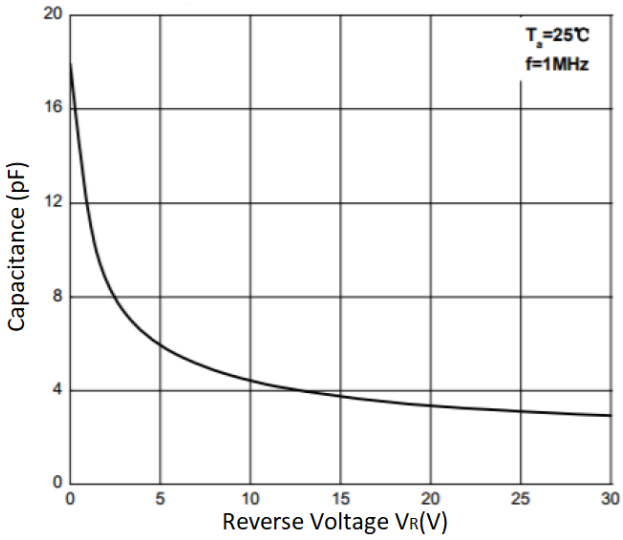
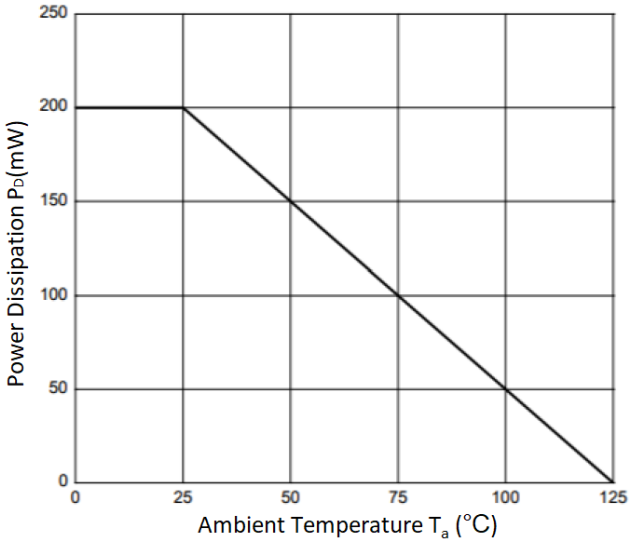
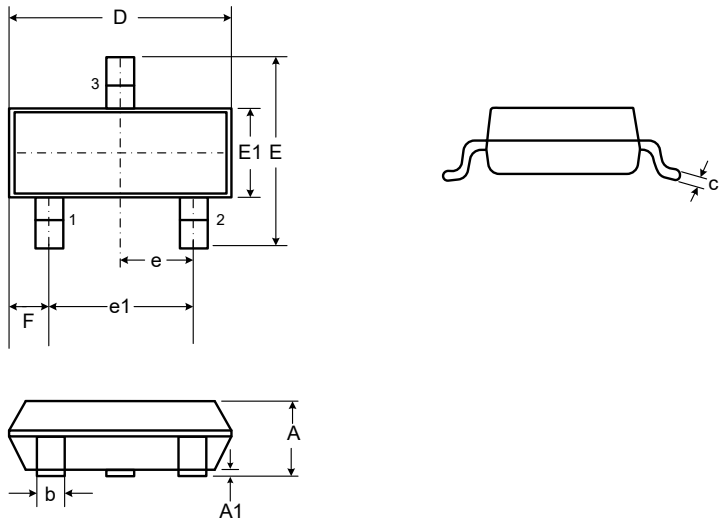


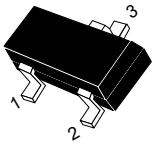
Figure 4. Power Derating Curve



Outline Drawing –SOT-23

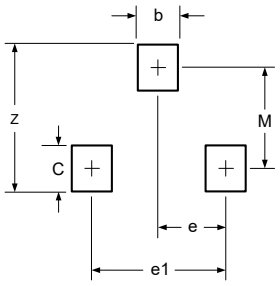
PACKAGE OUTLINE





SOT-23

DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.11	0.035	0.044
A1	0.01	0.10	0.000	0.004
b	0.37	0.51	0.015	0.020
c	0.09	0.18	0.004	0.007
D	2.80	3.04	0.110	0.120
E	2.10	2.64	0.083	0.104
E1	1.20	1.40	0.047	0.055
e	0.89	1.03	0.035	0.041
e1	1.78	2.05	0.070	0.081
F	0.45	0.60	0.018	0.024



DIMENSIONS		
DIM	INCHES	MILLIMETERS
M	0.0795	2.02
C	0.0315	0.80
Z	0.111	2.82
e	0.037 BSC	0.95 BSC
e1	0.075 BSC	1.9 BSC
b	0.0315	0.80

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	WSR3002T2
Marking Code	KL3

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.