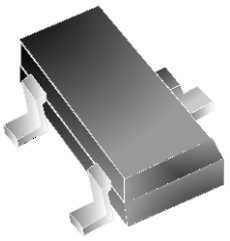
WSR3002T0

Schottky Barrier Diode

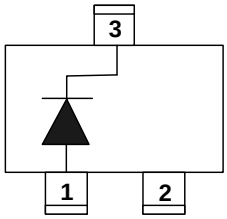
Features

- 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=1s	I_{FSM}	1	A
Soldering Temperature During	T_j	260	°C
Thermal Resistance Junction to Ambient	R_j	500	°C/W
Junction Temperature	T_J	-55 to 125	°C
Storage Temperature	T_{stg}	-55 to 150	°C

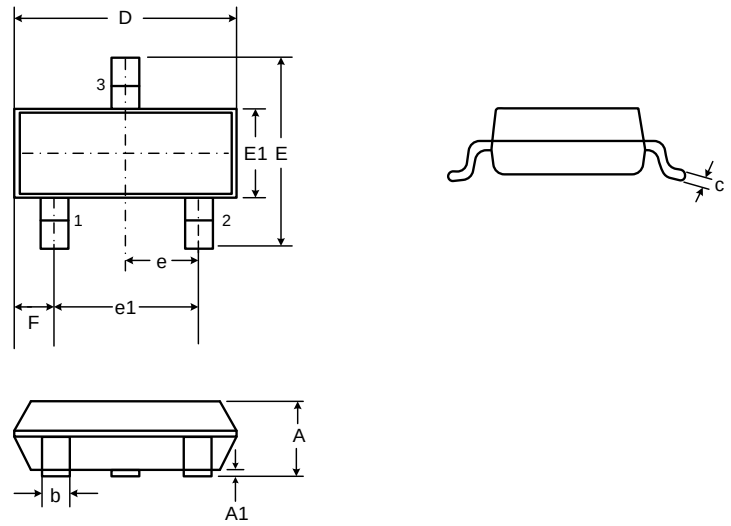
Electrical Characteristics (Tamb=25°C unless otherwise noted)

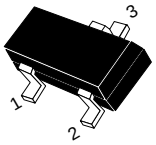
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R = 100μA	30	-	-	V
Reverse Voltage Leakage current	I_R	V_R = 25V	-	-	10	μA
Forward Voltage	V_F	I_F = 0.1mA	-	-	0.24	V
	V_F	I_F = 1mA	-	-	0.32	
	V_F	I_F = 10mA	-	-	0.40	
	V_F	I_F = 30mA	-	-	0.50	
	V_F	I_F = 100mA	-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

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Outline Drawing –SOT-23

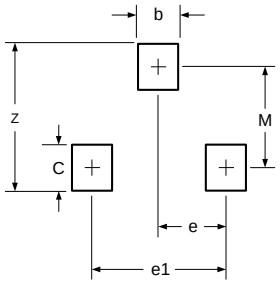
PACKAGE OUTLINE





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	WSR3002T0
Marking Code	KL1

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.