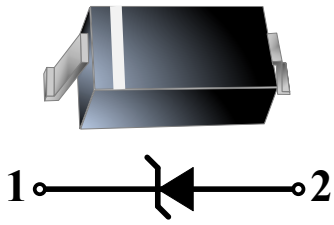
WAYON

WZ5CxxxD3

ZENER DIODE

Features

- General Purpose, Medium Current
- Planar Die Construction
- Zener Voltages From 2.4V-75V



SOD-323

Mechanical Data

- SOD-323 Package
- Marking : Making Code
- Packaging: Tape and Reel per EIA 481
- RoHS Compliant & HF
- Device meets MSL3 requirement

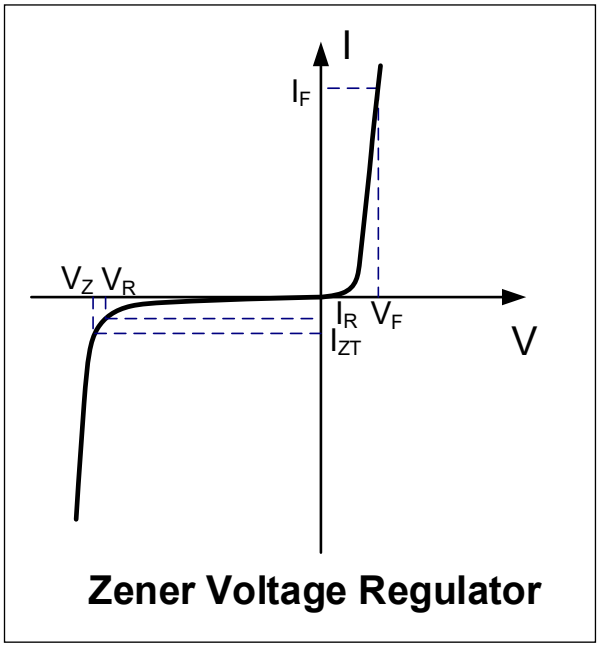
Absolute Maximum Rating (Ta=25℃ Unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum Forward Voltage @I_F=10mA	V_F	0.9	V
Continuous Forward Current	I_F	200	mA
Power Dissipation	P_D	500	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	°C/W
Junction Temperature	T_J	-55 to +150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

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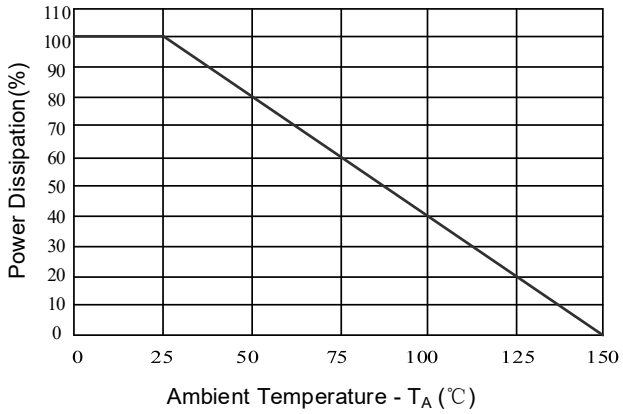
Electrical Parameters (T_a=25℃)

Symbol	Parameter
I_{ZT}	Reverse Current
V_Z	Reverse Zener Voltage @ I_{ZT}
V_R	Reverse Voltage
I_R	Reverse Leakage Current @ V_R
I_F	Forward Current
V_F	Forward Voltage @ I_F



Typical Characteristics

Figure 1: Power Derating Curve



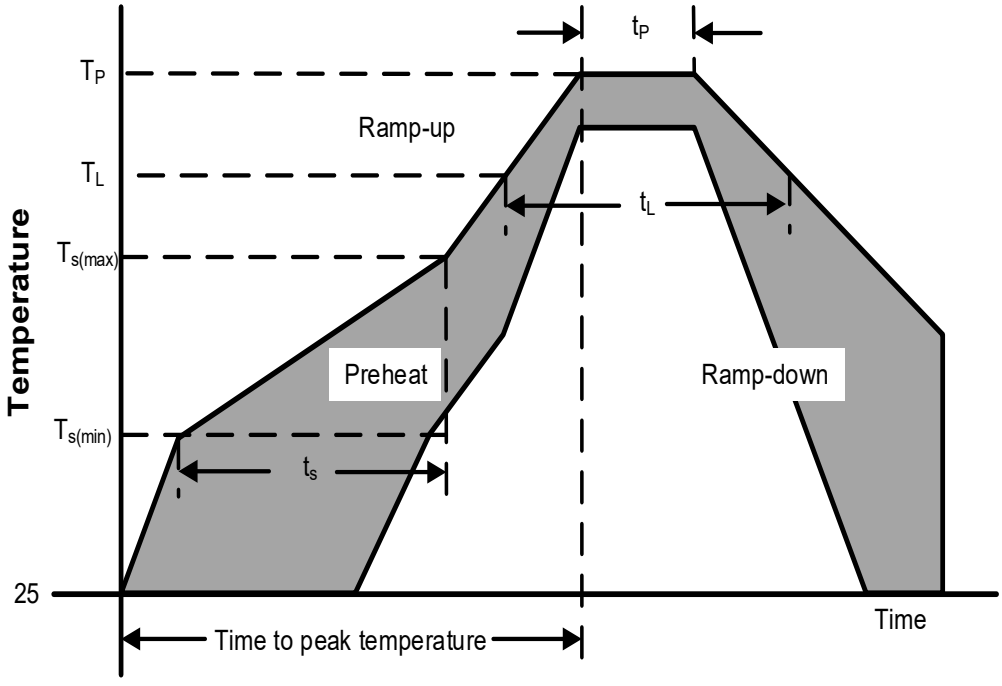
Electrical Characteristics(T_a=25°C unless otherwise noted)

Type Number	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		V_Z@I_{ZT}			I_{ZT}	Z_{ZT}@I_{ZT}	Z_{ZK}@I_{ZK}	I_{ZK}	I_R	V_R
		Nom(V)	Min(V)	Max(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)
WZ5C2V4D3	WX	2.4	2.2	2.6	5	100	600	1	50	1
WZ5C2V7D3	W1	2.7	2.5	2.9	5	100	600	1	20	1
WZ5C3V0D3	W2	3	2.8	3.2	5	95	600	1	10	1
WZ5C3V3D3	W3	3.3	3.1	3.5	5	95	600	1	5	1
WZ5C3V6D3	W4	3.6	3.4	3.8	5	90	600	1	5	1
WZ5C3V9D3	W5	3.9	3.7	4.1	5	90	600	1	3	1
WZ5C4V3D3	W6	4.3	4	4.6	5	90	600	1	3	1
WZ5C4V7D3	W7	4.7	4.4	5	5	80	500	1	3	2
WZ5C5V1D3	W8	5.1	4.8	5.4	5	60	480	1	2	2
WZ5C5V6D3	W9	5.6	5.2	6	5	40	400	1	1	2
WZ5C6V2D3	WA	6.2	5.8	6.6	5	10	150	1	3	4
WZ5C6V8D3	WB	6.8	6.4	7.2	5	15	80	1	2	4
WZ5C7V5D3	WC	7.5	7	7.9	5	15	80	1	1	5
WZ5C8V2D3	WD	8.2	7.7	8.7	5	15	80	1	0.7	5
WZ5C9V1D3	WE	9.1	8.5	9.6	5	15	100	1	0.5	6
WZ5C10VD3	WF	10	9.4	10.6	5	20	150	1	0.2	7
WZ5C11VD3	WG	11	10.4	11.6	5	20	150	1	0.1	8
WZ5C12VD3	WH	12	11.4	12.7	5	25	150	1	0.1	8
WZ5C13VD3	WI	13	12.4	14.1	5	30	170	1	0.1	8
WZ5C15VD3	WJ	15	13.8	15.8	5	30	200	1	0.05	10.5
WZ5C16VD3	WK	16	15.3	17.1	5	40	200	1	0.05	11.2
WZ5C18VD3	WL	18	16.8	19.1	5	45	225	1	0.05	12.6
WZ5C20VD3	WM	20	18.8	21.2	5	55	225	1	0.05	14
WZ5C22VD3	WN	22	20.8	23.3	5	55	250	1	0.05	15.4
WZ5C24VD3	WO	24	22.8	25.6	5	70	250	1	0.05	16.8
WZ5C27VD3	WP	27	25.1	28.9	2	80	300	0.5	0.05	18.9
WZ5C30VD3	WQ	30	28	32	2	80	300	0.5	0.05	21
WZ5C33VD3	WR	33	31	35	2	80	325	0.5	0.05	23.1
WZ5C36VD3	WS	36	34	38	2	90	350	0.5	0.05	25.2
WZ5C39VD3	WT	39	37	41	2	130	350	0.5	0.05	27.3
WZ5C43VD3	WU	43	40	46	2	150	375	0.5	0.05	30.1
WZ5C47VD3	WV	47	44	50	2	170	375	0.5	0.05	32.9
WZ5C51VD3	X1	51	48	54	2	180	400	0.5	0.05	35.7
WZ5C56VD3	X2	56	52	60	2	200	425	0.5	0.05	39.2
WZ5C62VD3	X3	62	58	66	2	215	450	0.5	0.05	43.4
WZ5C68VD3	X4	68	64	72	2	240	475	0.5	0.05	47.6
WZ5C75VD3	X5	75	70	79	2	255	500	0.5	0.05	52.5

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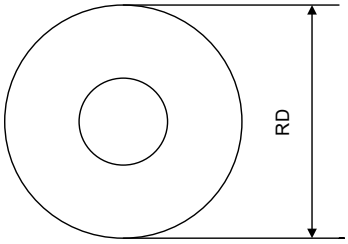
Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (ts)	60 – 190 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		5°C/second max
$T_{S(max)}$ to T_L——Ramp-up Rate		5°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		260+0/-5 °C
Time within actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		280°C

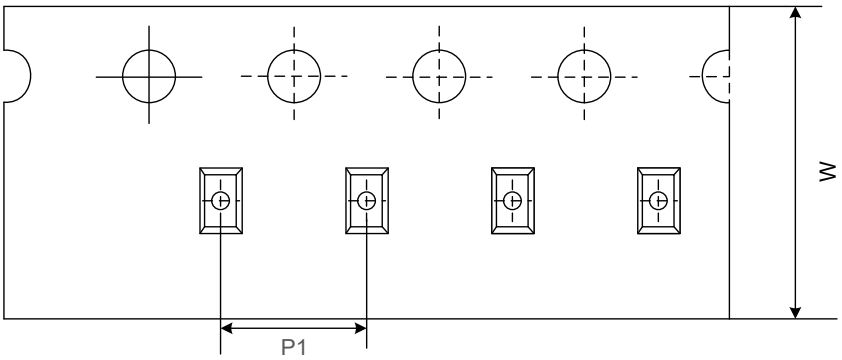


Tape And Reel Information

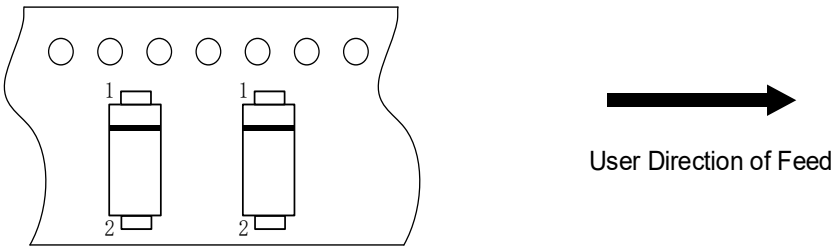
Reel Dimensions



Tape Dimensions



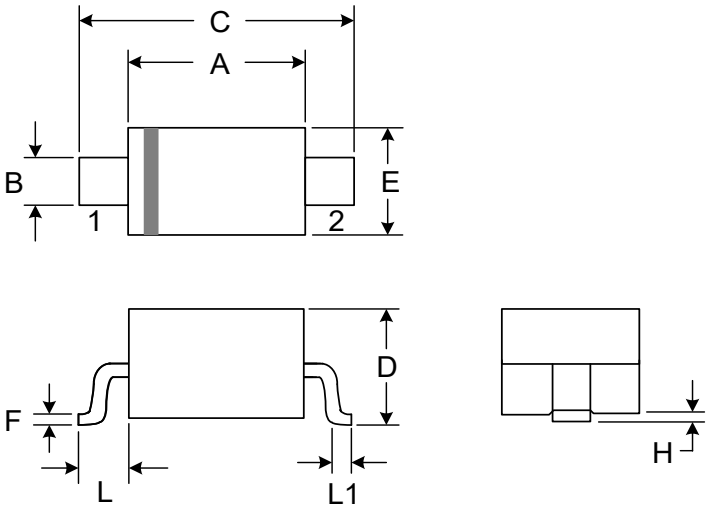
Quadrant Assignments For PIN1 Orientation In Tape

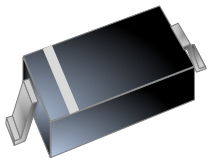


RD	Reel Dimensions	7 inch
W	Overall width of the carrier tape	8 mm
P1	Pitch between successive cavity centers	4 mm

Outline Drawing – SOD-323

PACKAGE OUTLINE

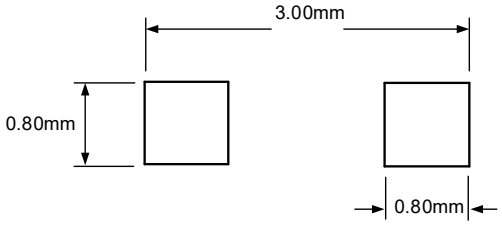




SOD-323

SYMBOL	MILLIMETERS	
	MIN	MAX
A	1.40	1.80
B	0.25	0.40
C	2.30	2.80
D	0.80	1.20
E	1.11	1.40
F	0.08	0.20
L	0.475 REF	
L1	0.20	0.50
H	0.00	0.20

MOUNTING PAD



Notes

Controlling Dimensions in Millimeters.

Package Information

Qty：3k/Reel

CONTACT INFORMATION

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WAYON website: **http://www.way-on.com**
For additional information, please contact your local Sales Representative.

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Product Specification Statement

1. The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

2. The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

3. WAYON strives to provide accurate and up-to-date information to the best of our ability. However, due to technical, human, or other reasons, WAYON cannot guarantee that the information provided in the product specification is entirely accurate and error-free. WAYON shall not be held responsible for any losses or damages resulting from the use or reliance on any information in these product specifications. WAYON reserves the right to revise or update the product specification and the products at any time without prior notice, and the user's continued use of the product specification is considered an acceptance of these revisions and updates. Prior to purchasing and using the product, users should verify the above information with WAYON to ensure that the product specification is the most current, effective, and complete. If users are particularly concerned about product parameters, please consult WAYON in detail or request relevant product test reports. Any data not explicitly mentioned in the product specification shall be subject to separate agreement.

4. Users are advised to pay attention to the parameter limit values specified in the product specification and maintain a certain margin in design or application to ensure that the product does not exceed the parameter limit values defined in the product specification. This precaution should be taken to avoid exceeding one or more of the limit values, which may result in permanent irreversible damage to the product, ultimately affecting the quality and reliability of the system or equipment.

5. The design of the product is intended to meet civilian needs and is not guaranteed for use in harsh environments or precision equipment. It is not recommended for use in systems or equipment such as medical devices, aircraft, nuclear power, and similar systems, where failures in these systems or equipment could reasonably be expected to result in personal injury. WAYON shall assume no responsibility for any consequences resulting from such usage.

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