

# BZT52BXXXS

Rev.1 Jan.-2024

## 5é / Descriptions

SOD-323 .#x I98ž

Zener Diode in a SOD-323 Plastic Package.

## 8 / Features

S= 6V~39Vž

200mW power dissipation, medium current, automated assembly processes, HF Product.

## 9 / Applications

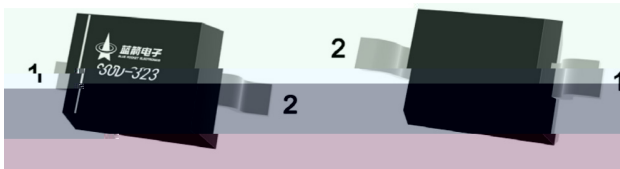
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2.4V to 39V wide zener voltage range applications.

## 10 / Equivalent Circuit



## 11 / Pinning



PIN1:Cathode

PIN2:Anode

## 12, MV / Marking

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See Marking Instructions.

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DATA SHEET

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Parameter	Z. Symbol	f Rating	% Unit
Forward Voltage (Note 2) $I_F=10\text{mA}$	$V_F$	0.9	V
Power Dissipation(Note 1)	$P_D$	200	mW
Typical Thermal Resistance Junction to Ambient(Note 1)	$R_{JA}$	625	/W
Junction and Storage Temperature Range	$T_j, T_{stg}$	-65 150	

Type Number	Marking Code	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			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			mA	A	V
BZT52B2V4S	H0Z	2.4	2.35	2.45	5	94	564	1	45	1
BZT52B2V7S	H1Z	2.7	2.65	2.75	5	94	564	1	18	1
BZT52B3V0S	H2Z	3.0	2.94	3.06	5	89	564	1	9	1
BZT52B3V3S	H3Z	3.3	3.23	3.37	5	89	564	1	4.5	1
BZT52B3V6S	H4Z	3.6	3.53	3.67	5	84	564	1	4.5	1
BZT52B3V9S	H5Z	3.9	3.82	3.96	5	84	564	1	2.7	1
BZT52B4V3S	H6Z	4.3	4.21	4.39	5	84	564	1	2.7	1
BZT52B4V7S	H7Z	4.7	4.61	4.79	5	75	564	1	2.7	2
BZT52B5V1S	H8Z	5.1	5.00	5.20	5	56	470	1	1.8	2
BZT52B5V6S	H9Z	5.6	5.49	5.71	5	27	451	1	0.9	2
BZT52B6V2S	HAZ	6.2	6.08	6.32	5	9	376	1	2.7	4
BZT52B6V8S	HBZ	6.8	6.66	6.94	5	14	141	1	1.8	4
BZT52B7V5S	HCZ	7.5	7.35	7.65	5	14	75	1	0.9	5
BZT52B8V2S	HDZ	8.2	8.04	8.36	5	14	75	1	0.63	5
BZT52B9V1S	HEZ	9.1	8.92	9.28	5	14	94	1	0.45	6
BZT52B10S	HFZ	10	9.80	10.20	5	18	141	1	0.18	7
BZT52B11S	HGZ	11	10.78	11.22	5	18	141	1	0.09	8

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Notes:

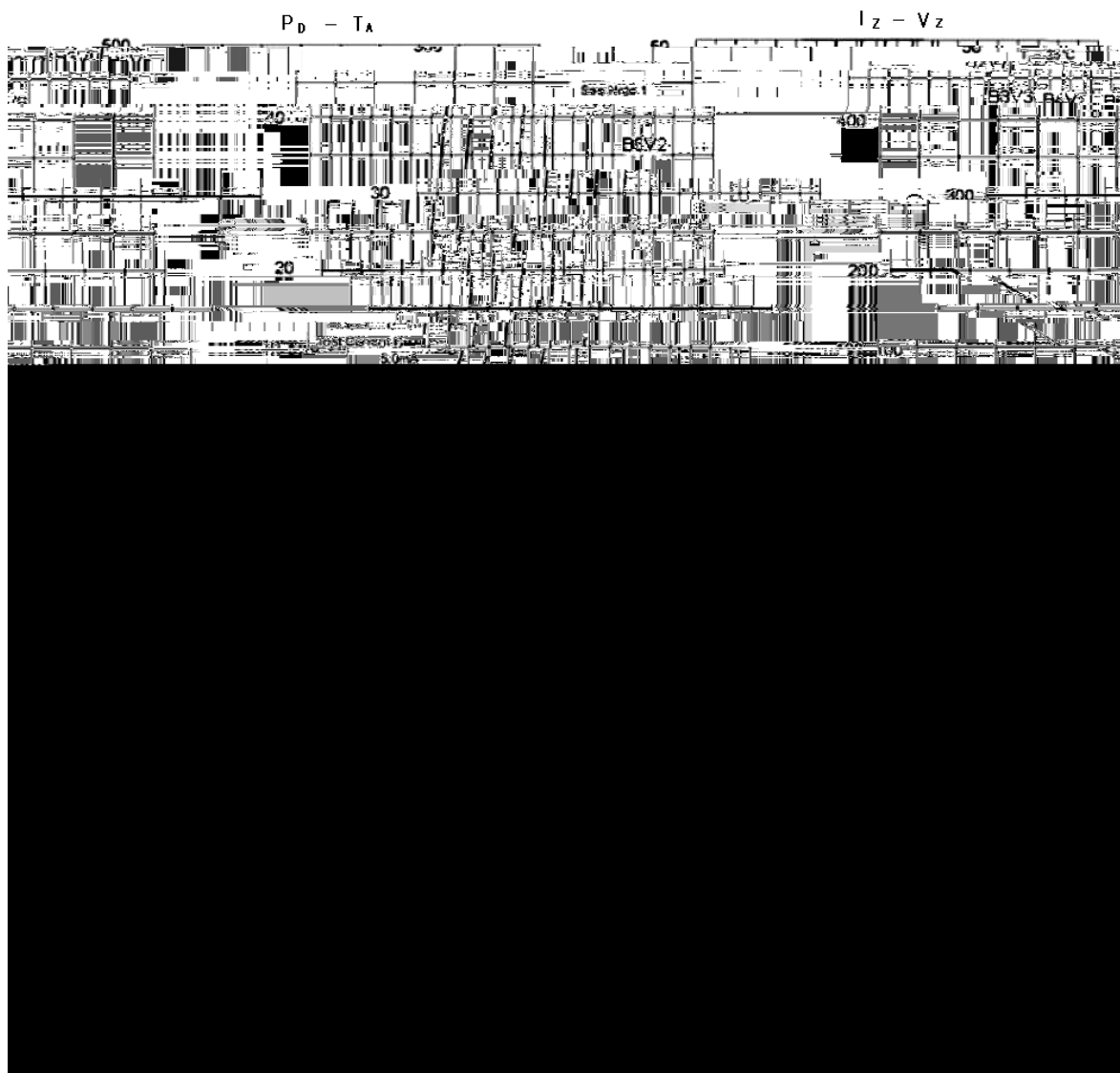
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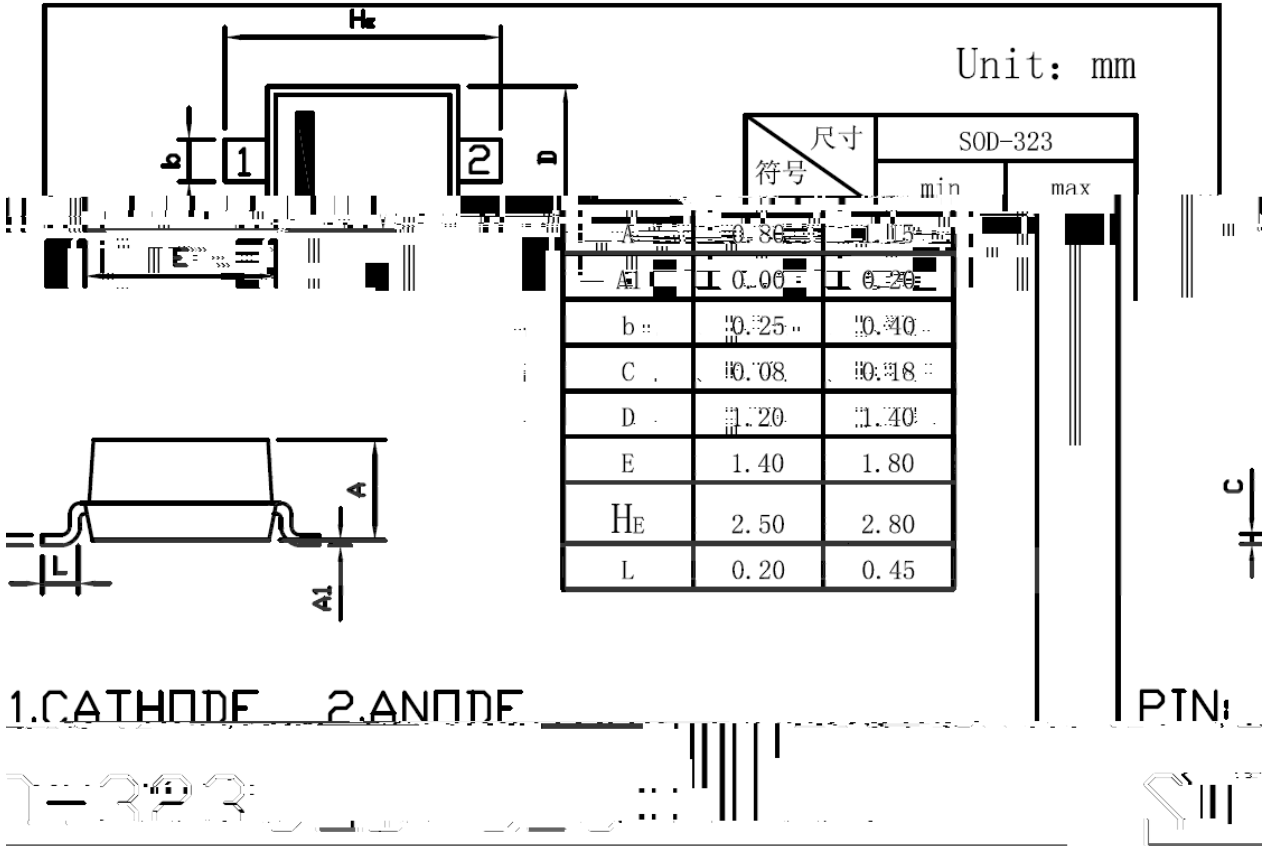


## / Electrical Characteristic Curve





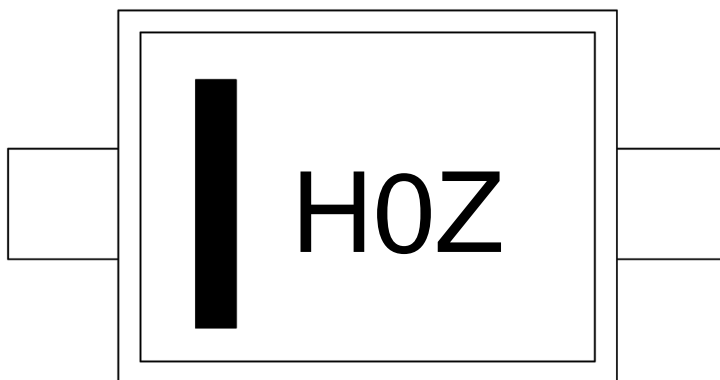
② / Package Dimensions



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## ,Myf / Marking Instructions



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.y WWA

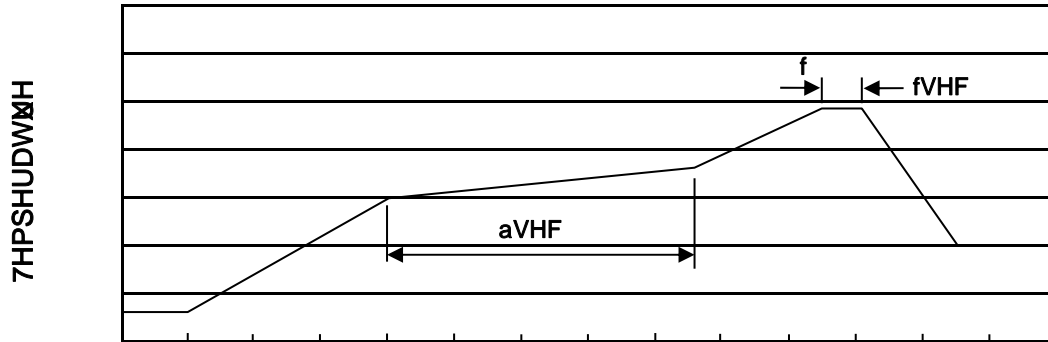
@y ZWA

Note:

H: Company Code

0Z: Product Type Code

5VDtž. (x/ ) / 5KZK6XEM/EPK0M6HXK



7LPHVHF

- |    |              |            |  |
|----|--------------|------------|--|
| 10 | 150½ 180-kž  | 60½ 90sec; | Note:                                      |
| 20 | 245r 5-kž    | 5r 0.5sec; | 1.Preheating:150~180- , Time:60~90sec.     |
| 30 | 2½ 10- /sec. |            | 2.Peak Temp.:245r 5- , Duration:5r 0.5sec. |
|    |              |            | 3. Cooling Speed: 2~10- /sec.              |

5/Cpž / Resistance to Soldering Heat Test Conditions

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|---------|--------------|-------------|---------------|
| 260r 5- | ž 10r 1 sec. | Temp.:260±5 | Time:10±1 sec |
|---------|--------------|-------------|---------------|

GPá / Packaging SPEC.

2& / REEL

Package Type 7E	Units ;E					Dimension ;E. (unit/Emm³)		
	Units/Reel /-	Reels/Inner Box - /-	Units/Inner Box /-	Inner Boxes/Outer Box - /E	Units/Outer Box /E	Reel	Inner Box -	Outer Box E
SOD-323	3,000	10	30,000	6	180,000	7s x8	180x120x180	390x385x205

df / Notices