

/ Descriptions

SOD-323

Zener Diode in a SOD-323 Plastic Package.

/ Features

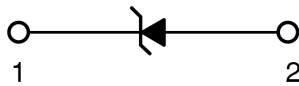
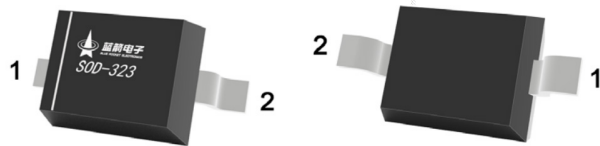
200mW

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

/ Applications

2.4V-39V

2.4V to 39V wide zener voltage range applications.

/ Equivalent Circuit**/ Pinning**

PIN1:Cathode

PIN2:Anode

/ Marking

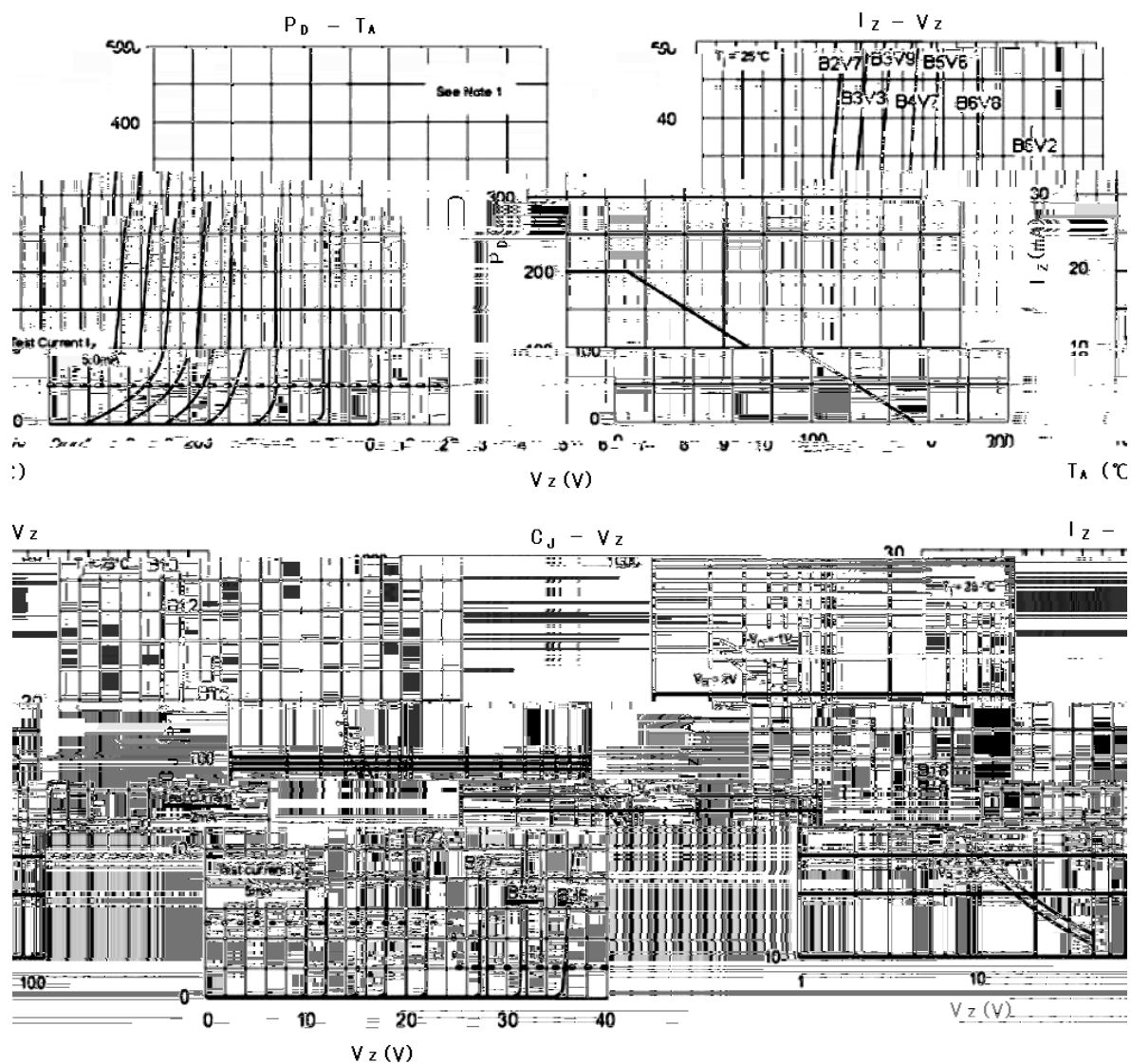
See Marking Instructions.

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

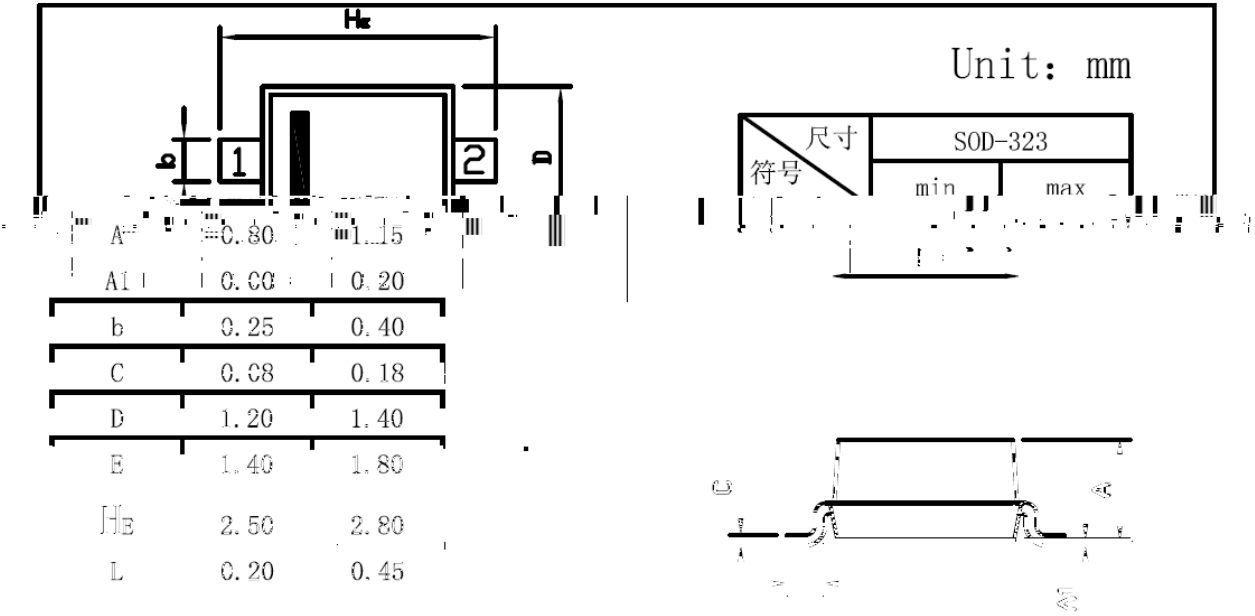
Type Number	Marking Code	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current	
		$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	I_R	@ V_R
		Nom (V)	Min (V)	Max (V)	mA	Ω		mA	μA	V
BZT52B2V4S	H0Z	2.4	2.35	2.45	5	94	564	1	45	1
BZT52B2V7S	H1Z	2.7	2.65	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

Notes:

/ Electrical Characteristic Curve



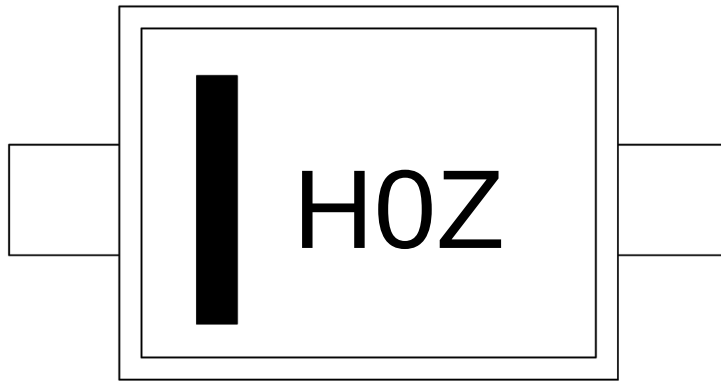
/ Package Dimensions



Pin 1 (Cathode) Pin 2 (Anode)

SOD-323

/ Marking Instructions



H

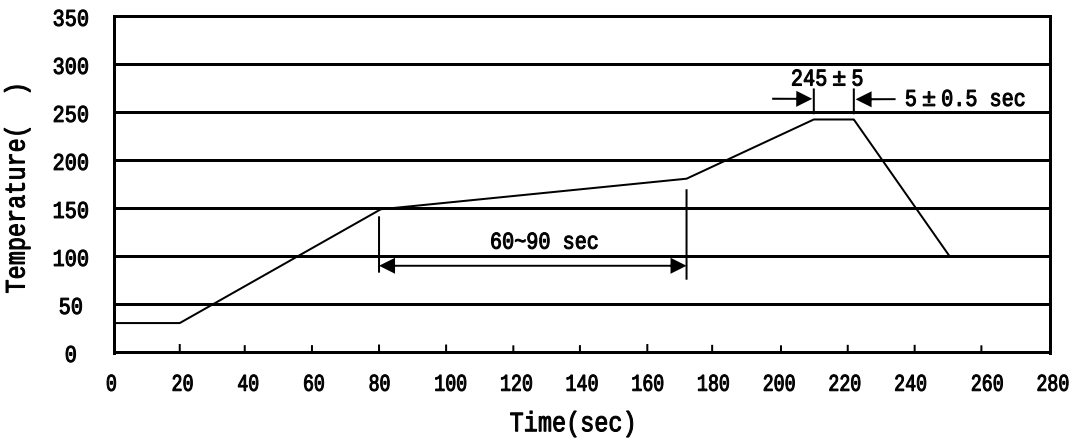
0Z

Note:

H: Company Code

0Z: Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 °C , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 °C , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 °C/sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices