

# BZT52CXXX

Rev.1 Feb.-2026



DATA SHEET

SOD-123

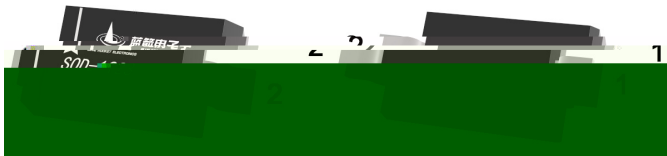
Zener Diode in a SOD-123 Plastic Package.

500mW

500mW power dissipation, medium current, automated assembly processes, HF Product.

2.4V - 39V

2.4V to 39V wide zener voltage range applications.



PIN1:Cathode

PIN2:Anode

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Parameter	Symbol	Rating	Unit
Forward Voltage (Note 2) ( $I_F=10mA$ )	$V_F$	0.9	V
Power Dissipation(Note 1)	$P_D$	500	mW
Typical Thermal Resistance Junction to Ambient Junction and Storage Temperature Range	$R_{JA}$	305	/W

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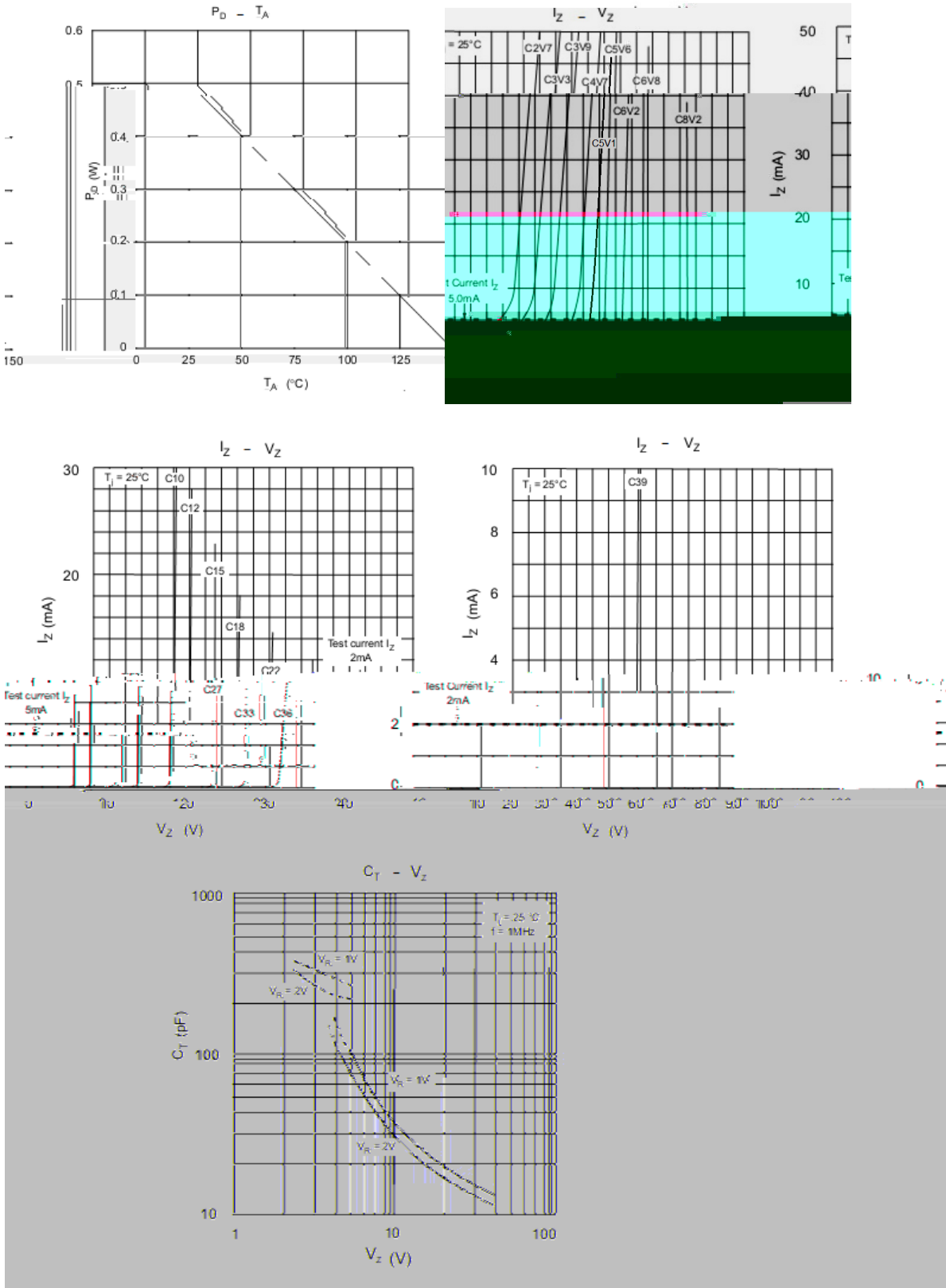
蓝箭电子  
BLUE ROCKET ELECTRONICS

DATA SHEET

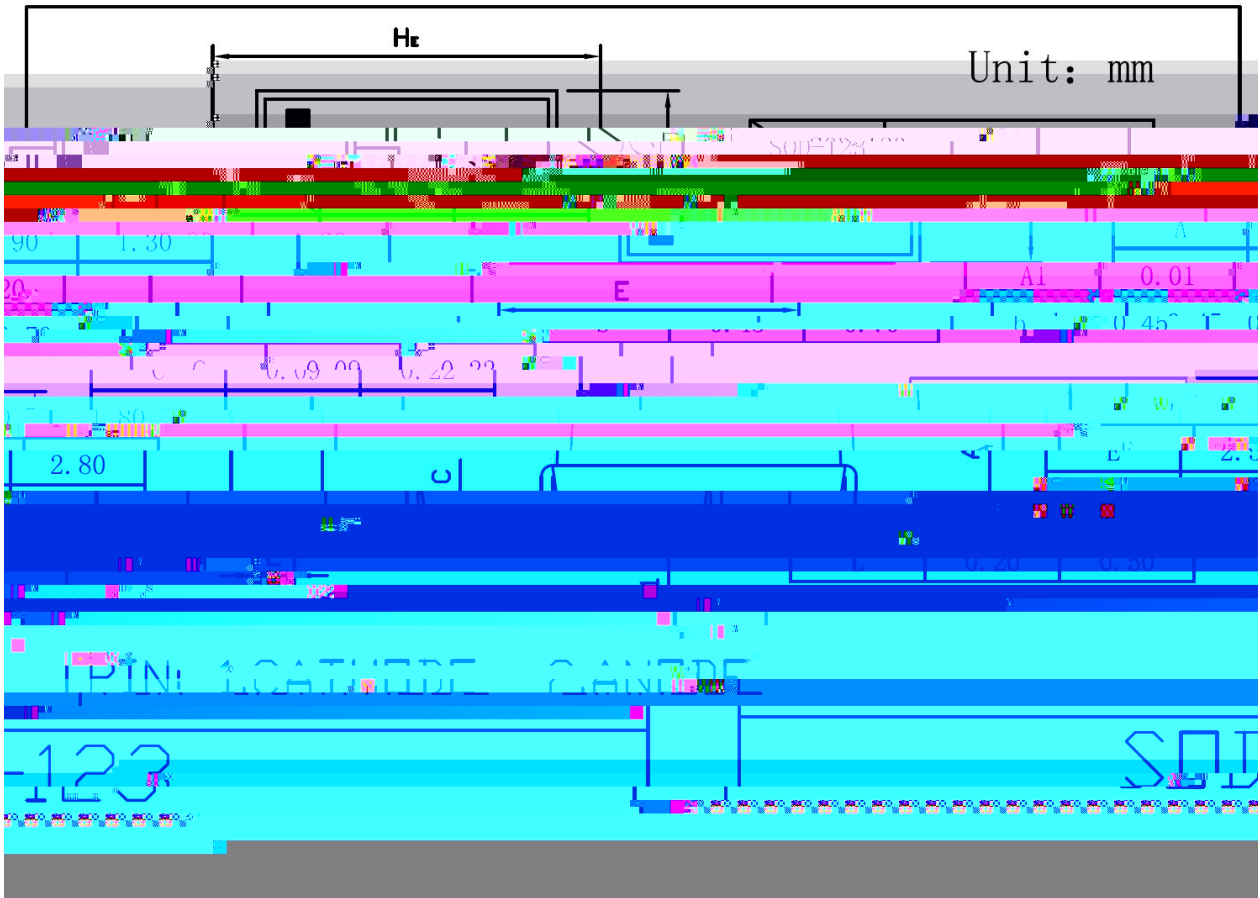
/ Electrical Characteristics(Ta=25 )

Type Number	Marking Code	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I <sub>ZTC</sub> mV/°C		Test Current I <sub>ZTC</sub> mA
		V <sub>Z</sub> @I <sub>ZT</sub>			I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	@V <sub>R</sub>	Min	Max	
		Nom (V)	Min (V)	Max (V)	mA				uA	V			
52C11	HWG	11	10.4	11.6	5	20	150	1	0.1	8	5.4	9	5
52C12	HWH	12	11.4	12.7	5	25	150	1	0.1	8	6	10	5
52C13	HWI	13	12.4	14.1	5	30	170	1	0.1	8	7	11	5
52C15	HWJ	15	13.8	15.6	5	30	200	1	0.1	10.5	9.2	13	5
52C16	HWK	16	15.3	17.1	5	40	200	1	0.1	11.2	10.4	14	5
								1	0.1	12.6	12.4	16	5
								1	0.1	14	14.4	18	5
								1	0.1	15.4	16.4	20	5

**/ Electrical Characteristic Curve**



**/ Package Dimensions**



/ Marking Instructions



H

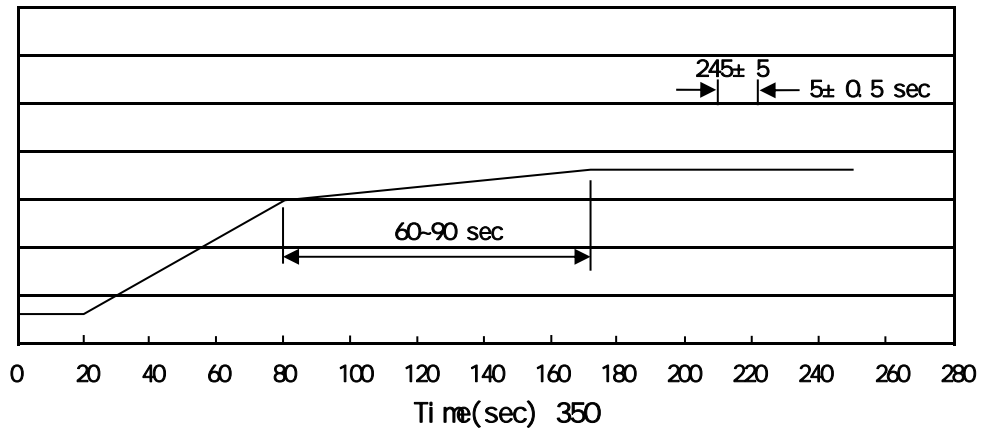
WX

Note:

H: Company Code

WX: Product Type Code

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



- |   |       |     |    |           |     |   |
|---|-------|-----|----|-----------|-----|---|
|   |       |     |    |           | 300 | Note:                                   |
| 1 | 150   | 180 | 60 | 90sec;    | 250 | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5 |     |    | 5±0.5sec; | 200 | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       |     | 2  | 10 /sec.  | 150 | 3. Cooling Speed: 2~10 /sec.            |

/ Resistance to Soldering Heat Test Conditions

260±5      10±1 sec.      50      Temp.:260±5      Time:10±1 sec

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/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123	3,000	10	30,000	6	180,000	7 x8	180x120x180	390x385x205

/ Notices