

BZT52CXXX

Rev.I Feb.-2026



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

SOD-123

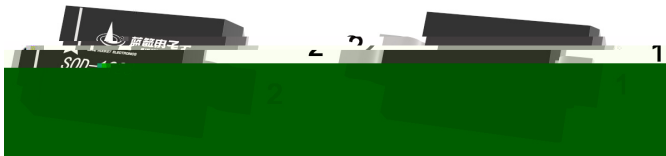
Zener Diode in a SOD-123 Plastic Package.

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	$R_{\theta JA}$	305	/W

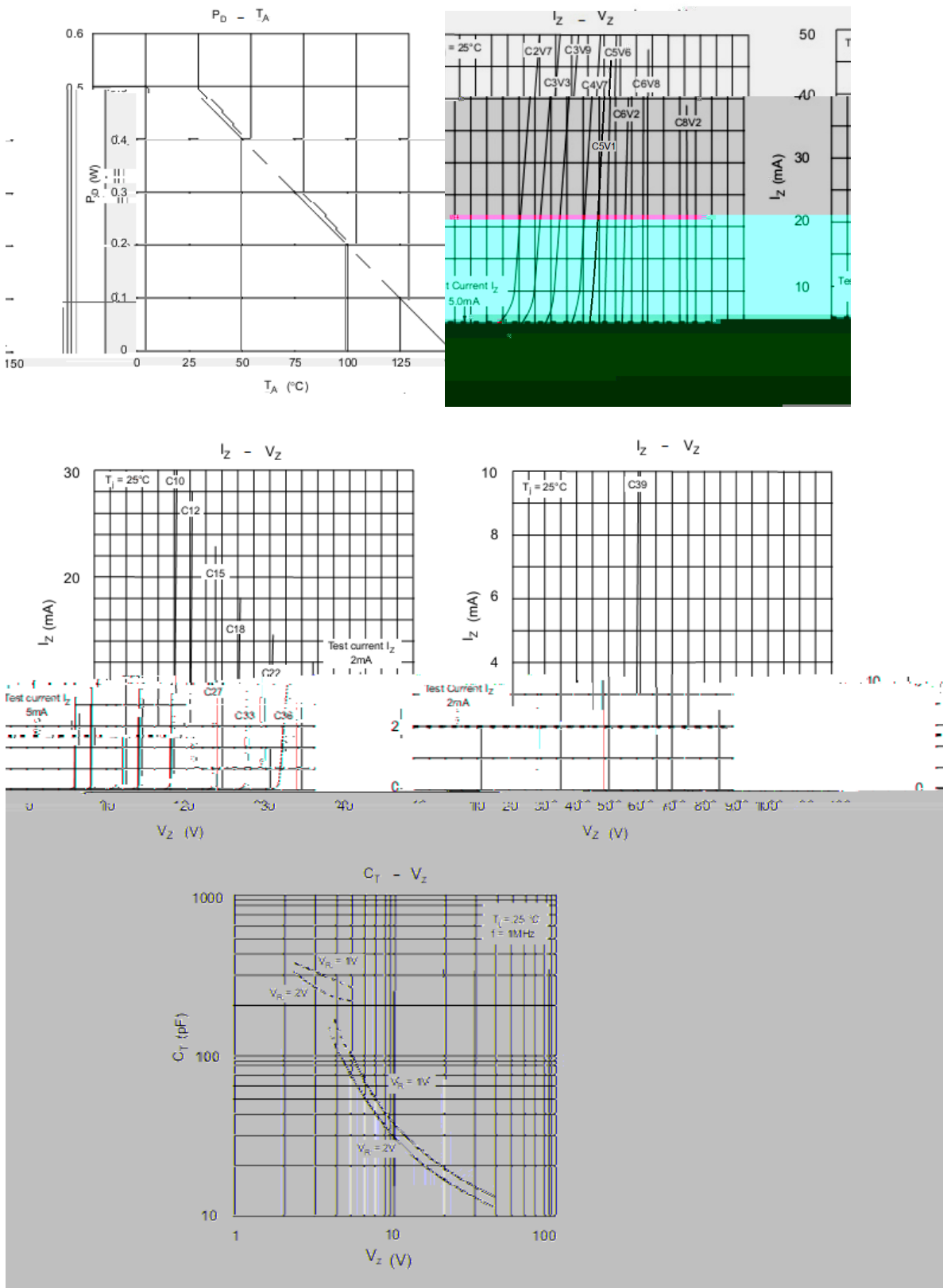
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Feb.-2026

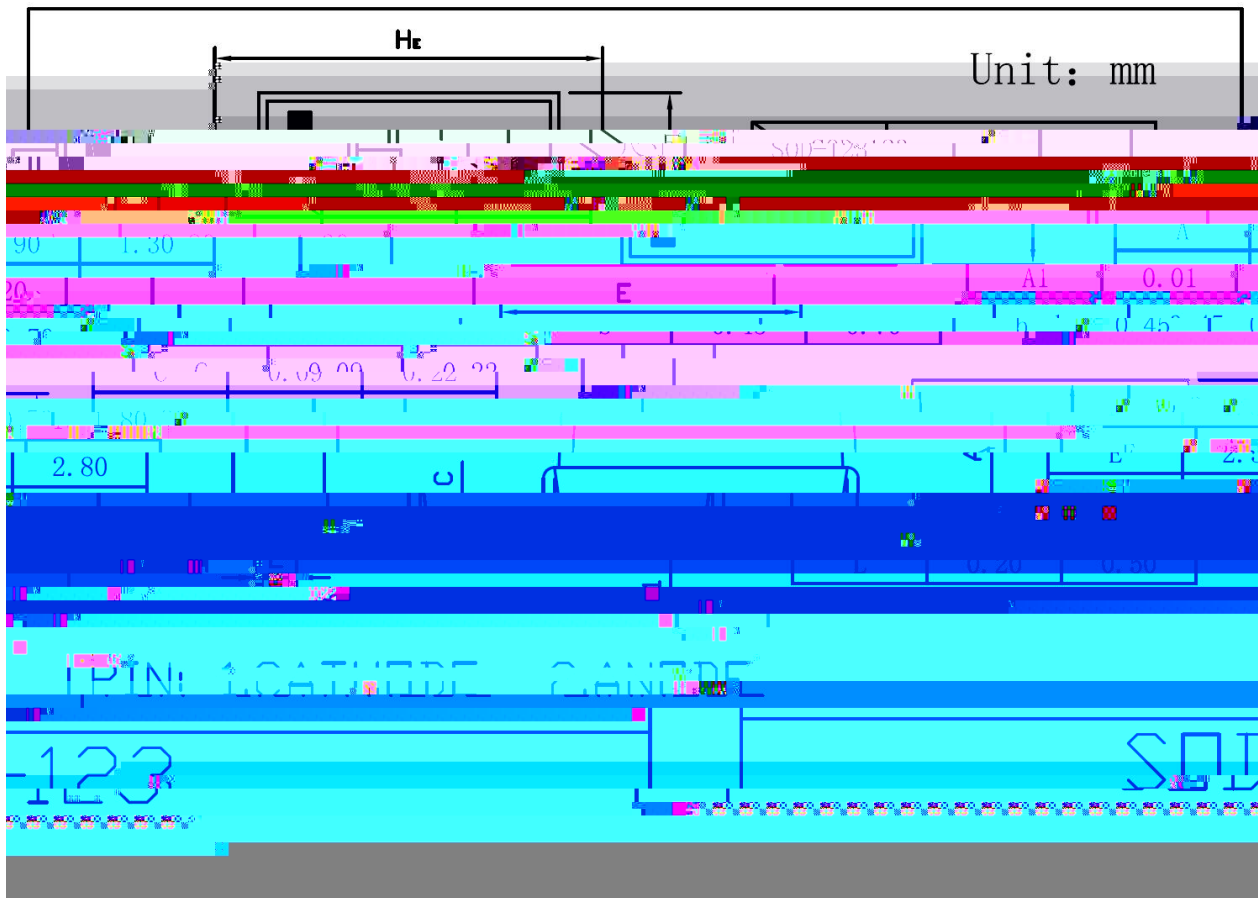
/ Electrical Characteristics(Ta=25)

Type Number	Marking Code	Zener Voltage Range (Note 2)				Maximum Zener mpedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I _{ZTC} mV/°C		Test Curre nt I _{ZTC}
		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	uA	V	Min	Max	mA
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

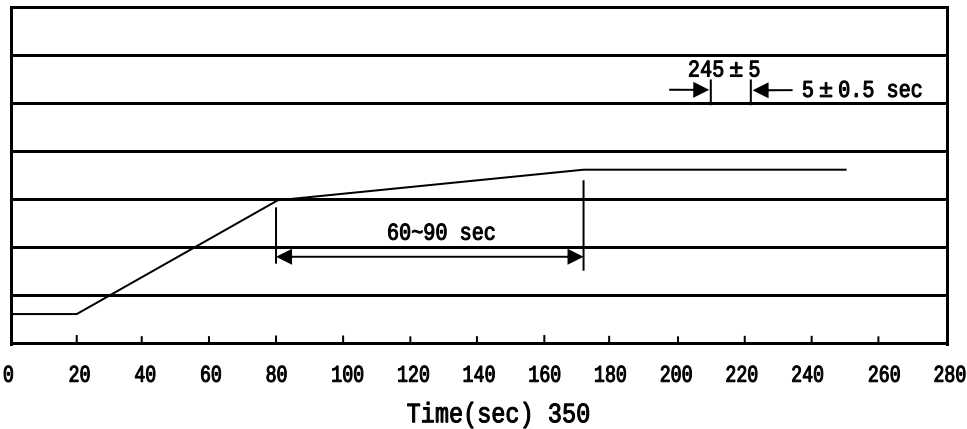
WX

Note:

H: Company Code

WX: Product Type Code

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



- 1

150 180

60 90sec;

250
- 2

245±5

5±0.5sec;

200
- 3

2 10 /sec.

150
- Note:
1.Preheating:150~180 , Time:60~90sec.
2.Peak Temp.:245±5 , Duration:5±0.5sec.
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

/ 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-123	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices