

Rev.I Feb.-2026

SOD-123

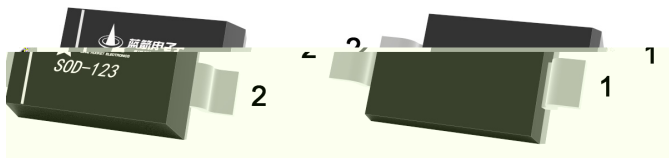
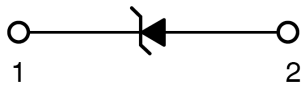
Zener Diode in a SOD-123 Plastic Package.

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

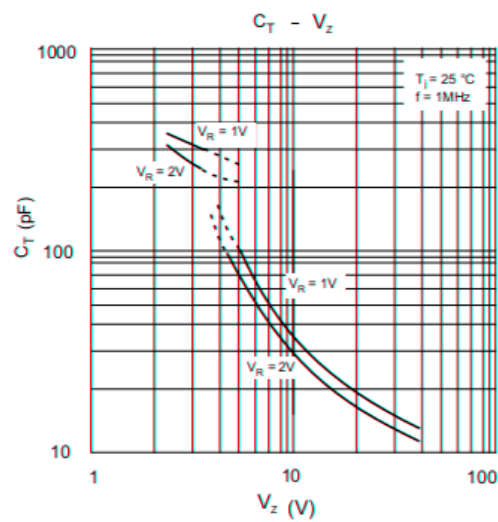
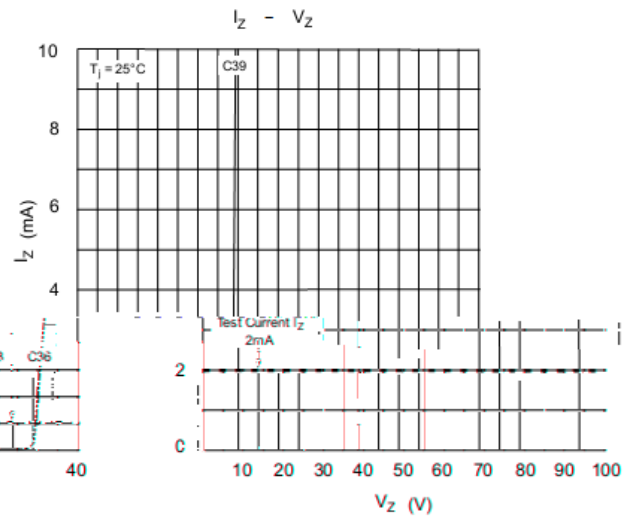
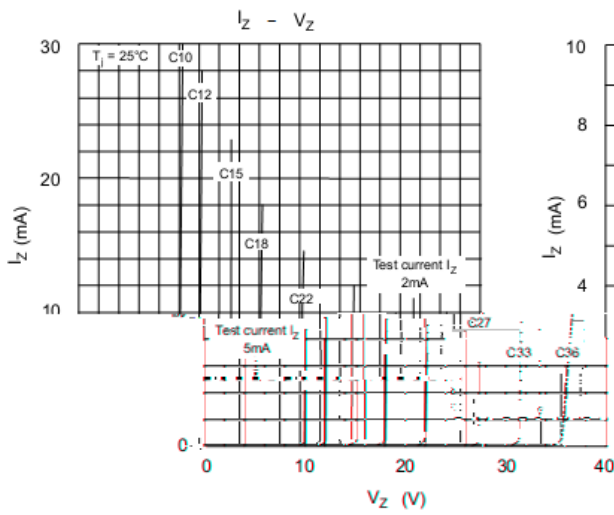
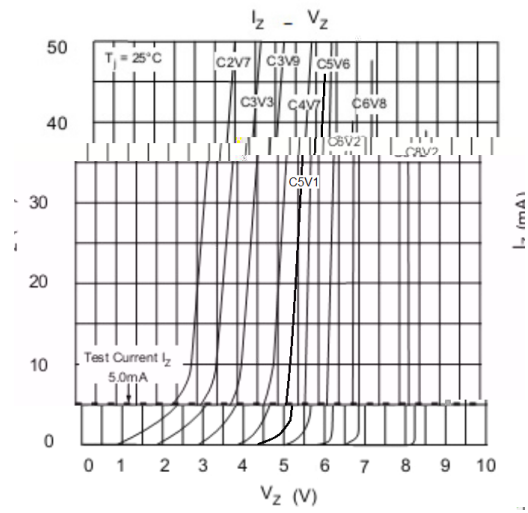
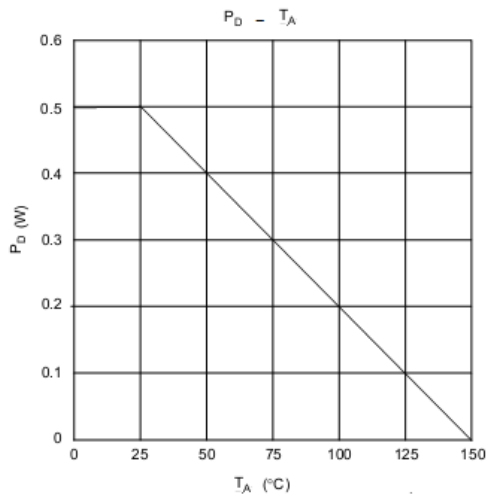
See Electrical Characteristics.

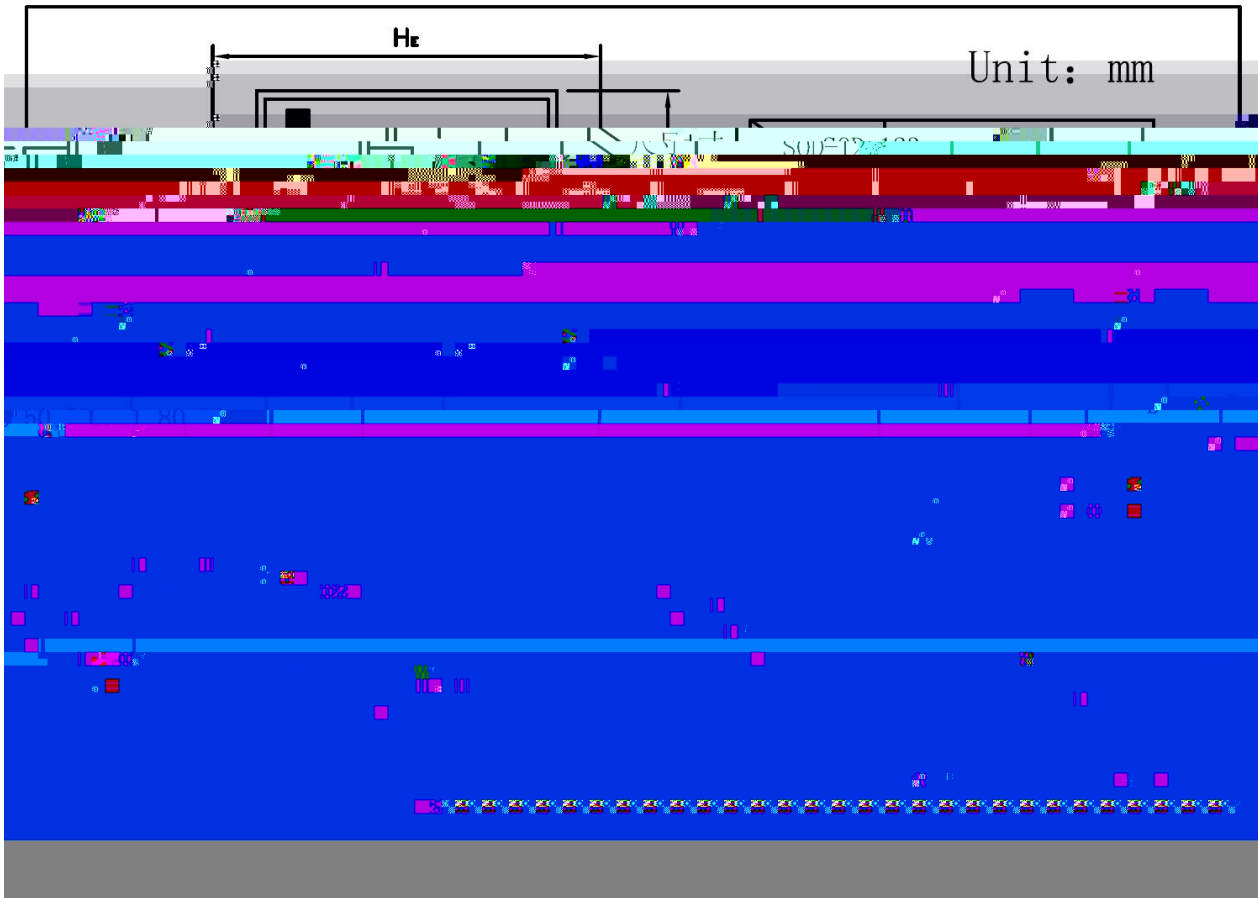
Parameter	Symbol	Rating	Unit
Forward Voltage (Note 2) ($I_F=10mA$)	V_F	0.9	V
Power Dissipation(Note 1)	P_D	500	mW
Typical Thermal Resistance Junction to Ambient Junction and Storage Temperature Range R- 6 8 1 T f 4 0 3 0 7 9 7 - . . 1 5 1 T c 2 . 0 0 2 1	R_{JA}	305	$^{\circ}C/W$

Type Number	Marking Code	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I _{ZTC} mV/°C		Test Current I _{ZTC} mA
		V _Z @I _{ZT}			I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R	@V _R	Min	Max	
		Nom (V)	Min (V)	Max (V)	mA	mA			uA	V			
BZT52C11	HWG	11	10.4	11.6	5	20	150	1	0.1	8	5.4	9	5
BZT52C12	HWH	12	11.4	12.7	5	25	150	1	0.1	8	6	10	5
BZT52C13	HWI	13	12.4	14.1	5	30	170	1	0.1	8	7	11	5
BZT52C15	HWJ	15	13.8	15.6	5	30	200	1	0.1	10.5	9.2	13	5
BZT52C16	HWK	16	15.3	17.1	5	40	200	1	0.1	11.2	10.4	14	5
BZT52C18	HWL	18	16.8	19.1	5	45	225	1	0.1	12.6	12.4	16	5
BZT52C20	HWM	20	18.8	21.2	5	55	225	1	0.1	14	14.4	18	5
BZT52C22	HWN	22	20.8	23.3	5	55	250	1	0.1	15.4	16.4	20	5
BZT52C24	HWO	24	22.8	25.6	5	70	250	1	0.1	16.8	18.4	22	5
BZT52C27	HWP	27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3	2
BZT52C30	HWQ	30	28	32	2	80	300	0.5	0.1	21	24.4	29.4	2
BZT52C33	HWR	33	31	35	2	80	325	0.5	0.1	23.1	27.4	33.4	2
BZT52C36	HWS	36	34	38	2	90	350	0.5	0.1	25.2	30.4	37.4	2
BZT52C39	HWT	39	37	41	2	130	350	0.5	0.1	27.3	33.4	41.2	2

Notes:

1. Device mounted on ceramic PCB; 7.6mm x 9.4mm x 0.87mm with pad areas 25mm².
2. Short duration test pulse used to minimize self-heating effect.
3. f = 1kHz.







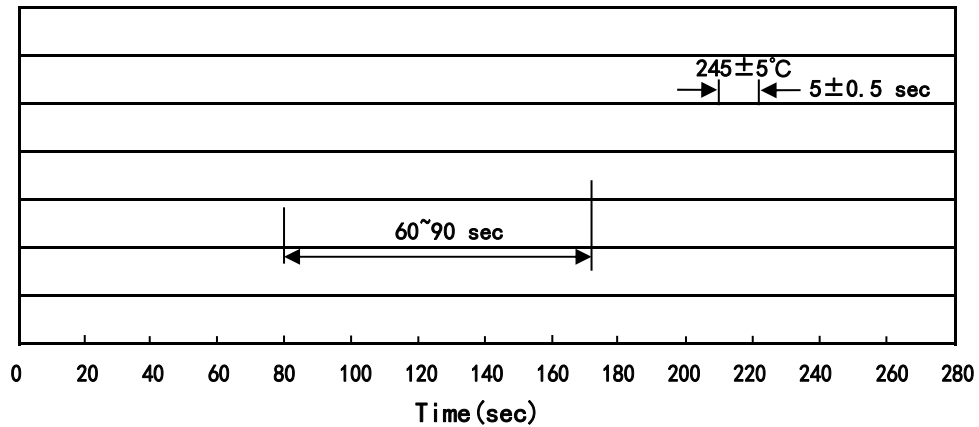
H

WX

Note:

H: Company Code

WX: Product Type Code

Temperature Profile for IR Reflow Soldering(Pb-Free)


Note:

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

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ 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" x8	180x120x180	390x385x205