SOD-123

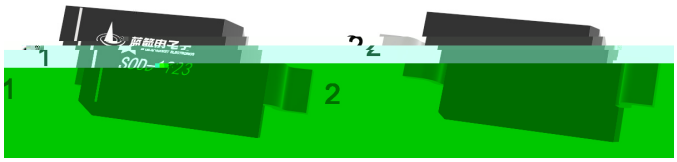
Zener Diode in a SOD-123 Plastic Package.

500mW ,

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

2.4V-39V

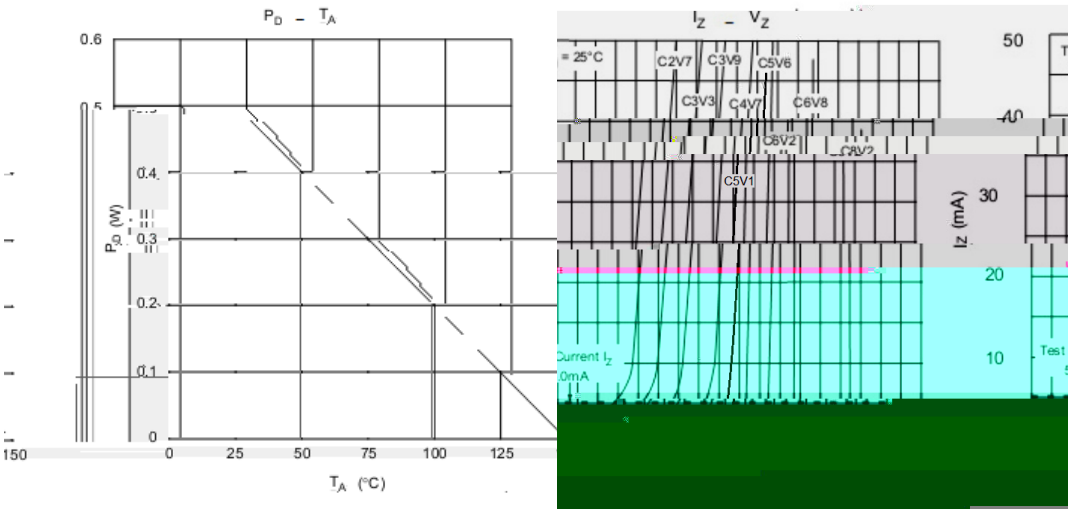
2.4V to 39V wide zener voltage range applications.

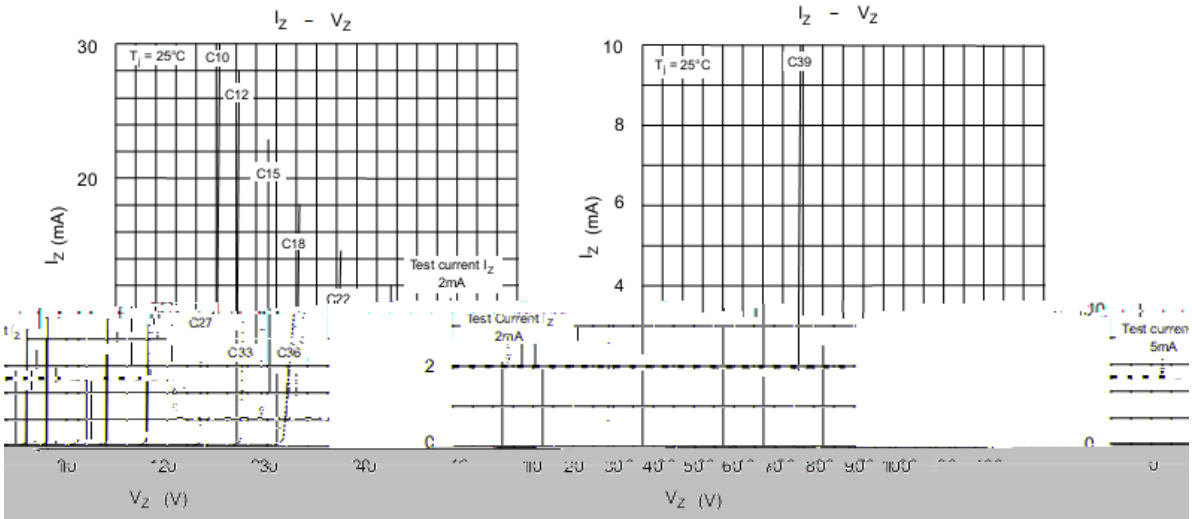


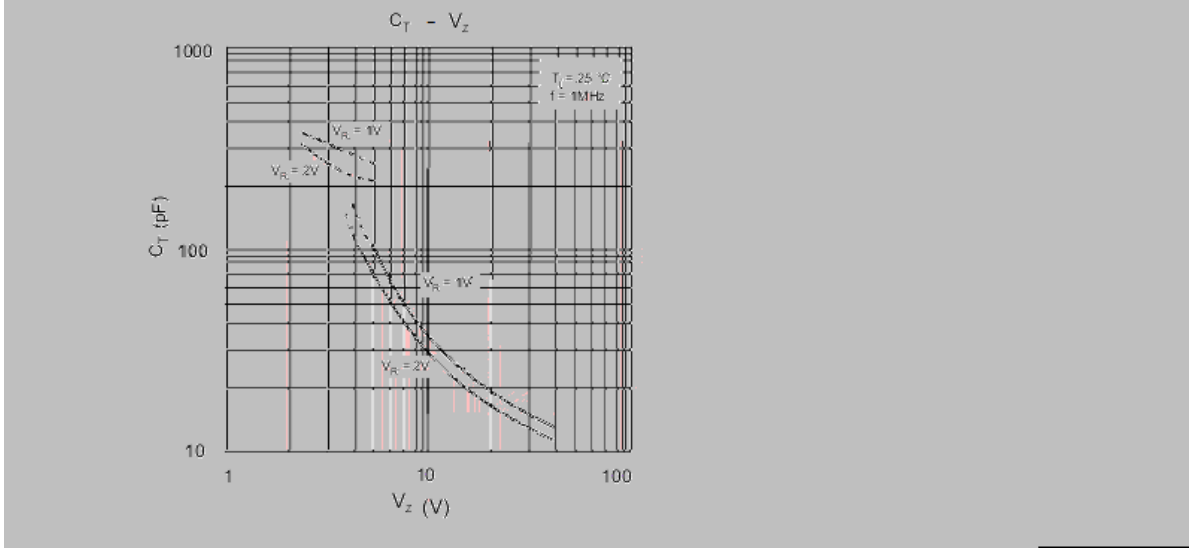
PIN1:Cathode PIN2:Anode

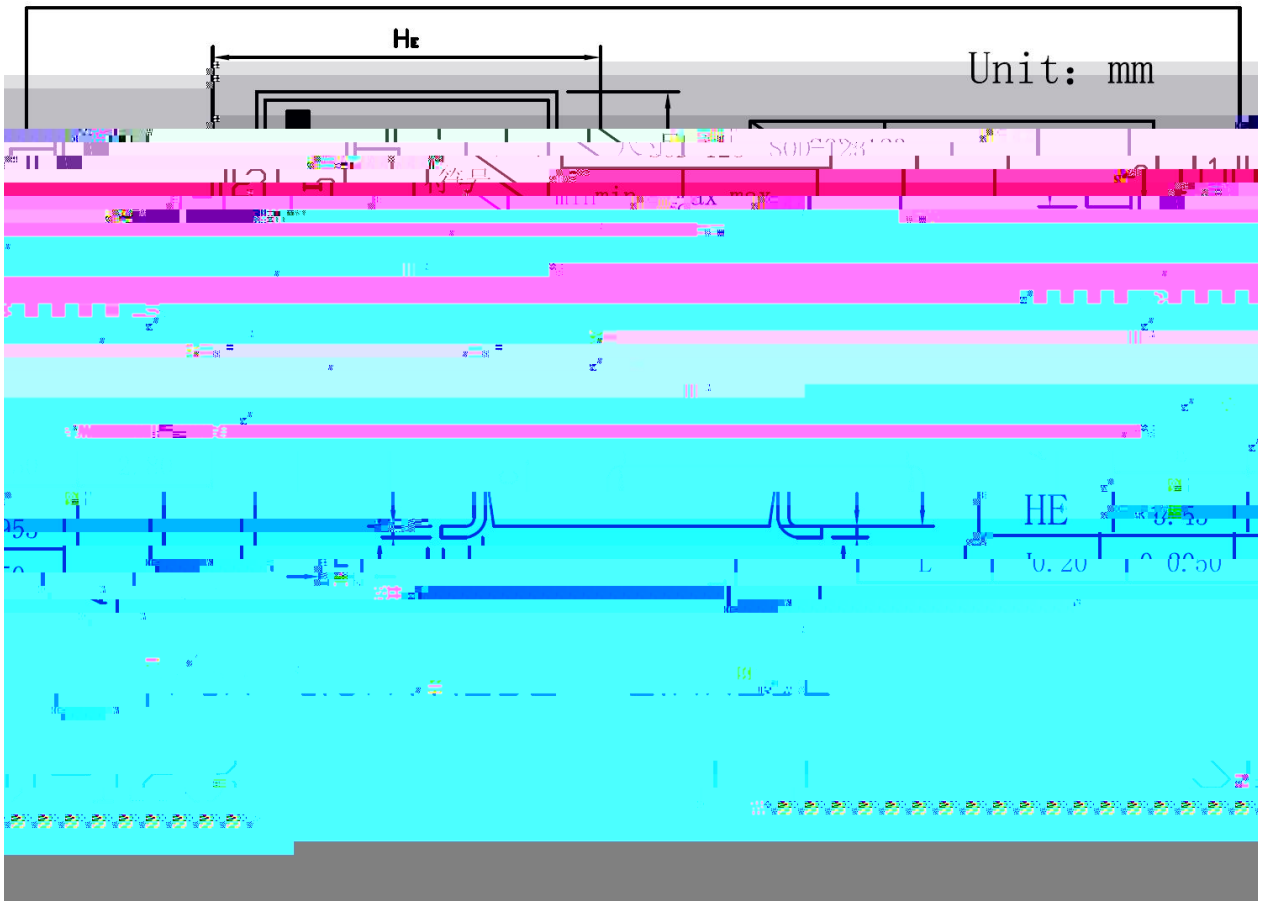
Parameter	Symbol	Rating	Unit
Forward Voltage (Note 2) (I_F=10mA)	V_F	0.9	V
Power Dissipation(Note 1)	P_D	500	mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	305	/W
Junction and Storage Temperature Range	1ET-9473(3)-59 T6(2ET-3 T5(- T5)11479(0T2)]T9/)-47 T5(5 55.62 67.3e30927		

ype mber	Marking Code	Zener Voltage Range (Note 2)				Maximum Zener mpedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I_{ZTC} mV/ºC		Test Current 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


P_D - T_A
P_D (W)
T_A (°C)
I_Z - V_Z
C2V7
C3V9
C5V6
C3V3
C4V7
C6V8
C5V1
I_Z (mA)


I_Z - V_Z
T_j = 25°C
C10
C12
C15
C18
C22
C27
C33
C36
Test current I_Z
2mA
I_Z (mA)
V_Z (V)
C39
5mA


C_T - V_Z
T_j = 25 °C
f = 1MHz
V_R = 1V
V_R = 2V
C_T (pF)
V_Z (V)


HE
Unit: mm

H

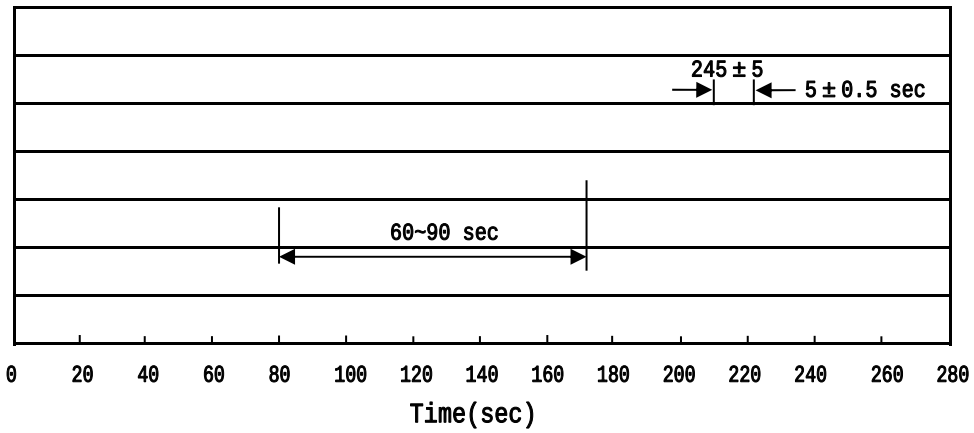
WX

Note:

H: Company Code

WX: Product Type Code

Temperature Profile for IR Reflow Soldering(Pb-Free)



1	150	180	60	90sec;	Note: 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 mm³)
	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