

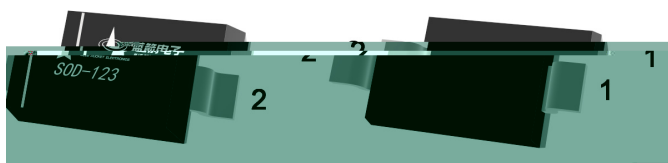
Rev.A Feb.-2025

SOD-123

Schottky Diode in a SOD-123 Plastic Package.

High Breakdown Voltage,Low Forward Voltage,HF Product.

General purpose.



PIN1:Cathode

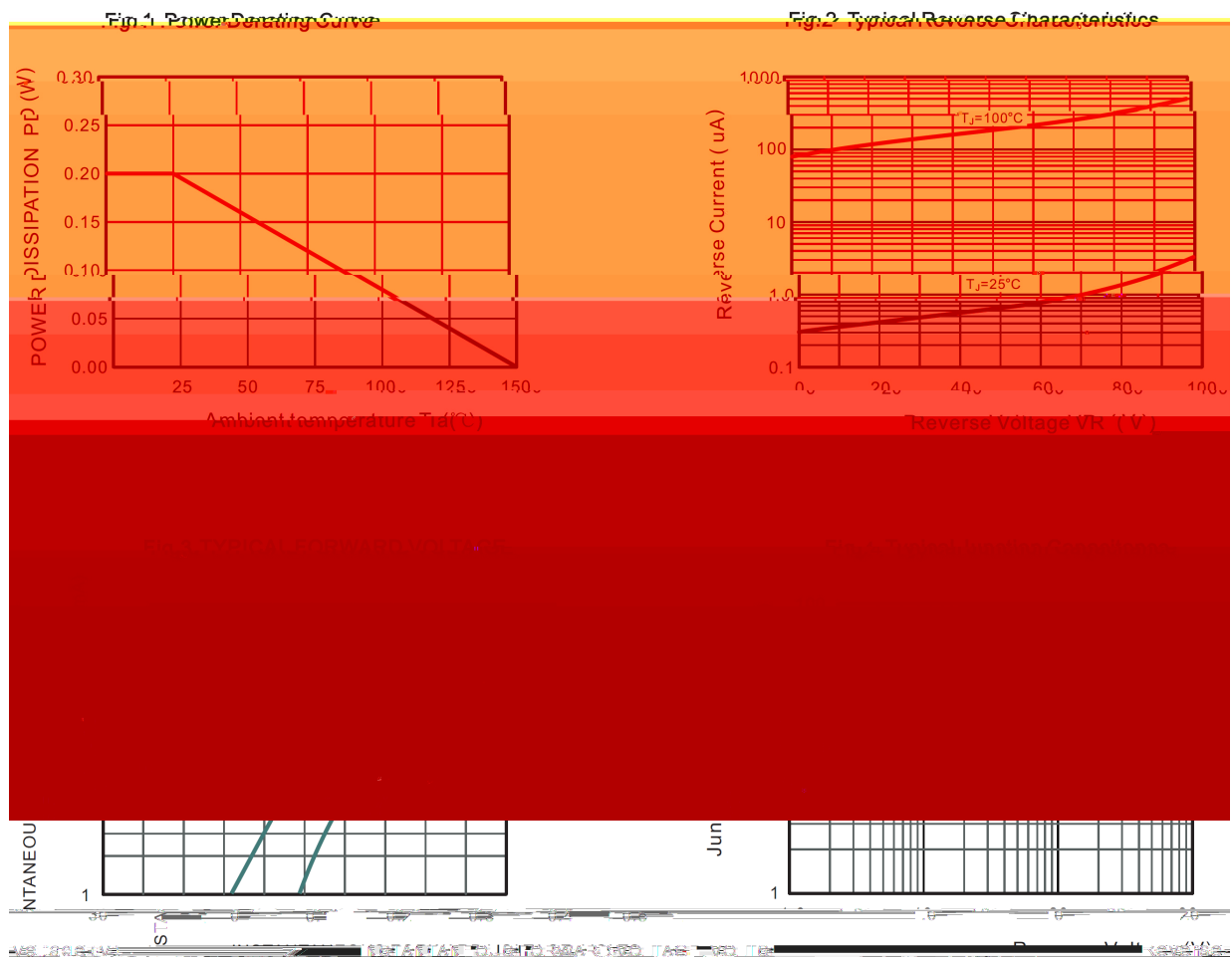
PIN2:Anode

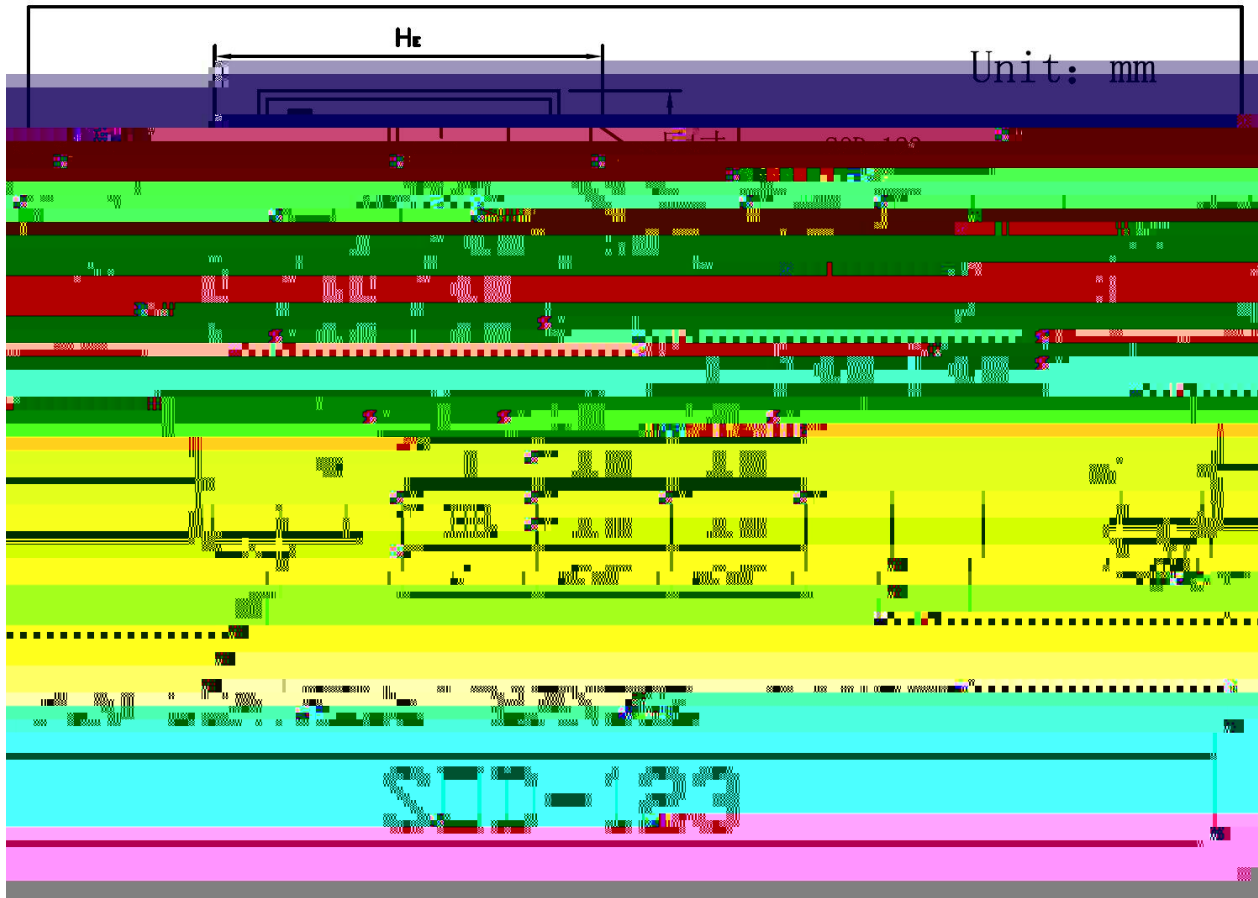
Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Working peak reverse voltage	V_{RWM}	100	V
Continuous Forward Current	I_F	150	mA
Repetitive peak forward current (Note 1) @ $t_p < 1.0s$, Duty Cycle $< 50\%$	I_{FRM}	350	mA
Non-repetitive Peak Forward Surge Current at 8.3ms	I_{FSM}	750	mA
Power Dissipation	P_D	200	mW
Thermal resistance junction to ambient air	R_{thJA}	500	/W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 ~ +150	

Parameter	Symbol	Test Conditions	Rating	Unit
Reverse Breakdown Voltage at $I_R=100\mu A$ (NOTE 2)	$V_{(BR)R}$	$I_R=100\mu A$	100	V
Maximum Forward Voltage (NOTE 2)	V_F	$I_F=0.1mA$	0.3	V
		$I_F=10mA$	0.45	
		$I_F=250mA$	1.0	
Peak Reverse Current	I_R	$V_R=1.5V$	0.3	μA
		$V_R=10V$	0.5	
		$V_R=50V$	1	
		$V_R=75V$	2	
Diodes Capacitance	C_T	$V_R=0, f=1MHz$	20	pF
		$V_R=1V, f=1MHz$	12	

NOTES:

- 1 Part mounted on FR-4 board with recommended pad layout.
- 2 Short duration pulse test used to minimize self-heating effect.







H

S9

Note:

H: Company Code

S9: 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)		
SOD-123	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205