

/ Descriptions

SOD-123
Schottky Diode in a SOD-123 Plastic Package.

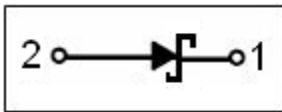
/ Features

Metal silicon junction, majority carrier conduction. Guarding for overvoltage protection.Low power loss, high efficiency. High current capability. low forward voltage drop. High surge capability. For use in low voltage, high frequency inverters,free wheeling, and polarity protection applications.HF Product.

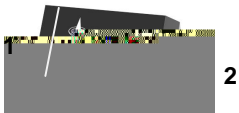
/ Applications

General purpose.

/ Equivalent Circuit



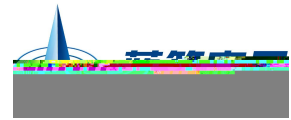
/ Pinning



PIN1:Cathode PIN2:Anode

/ Marking

Type number	Marking code
BAT54W	L4

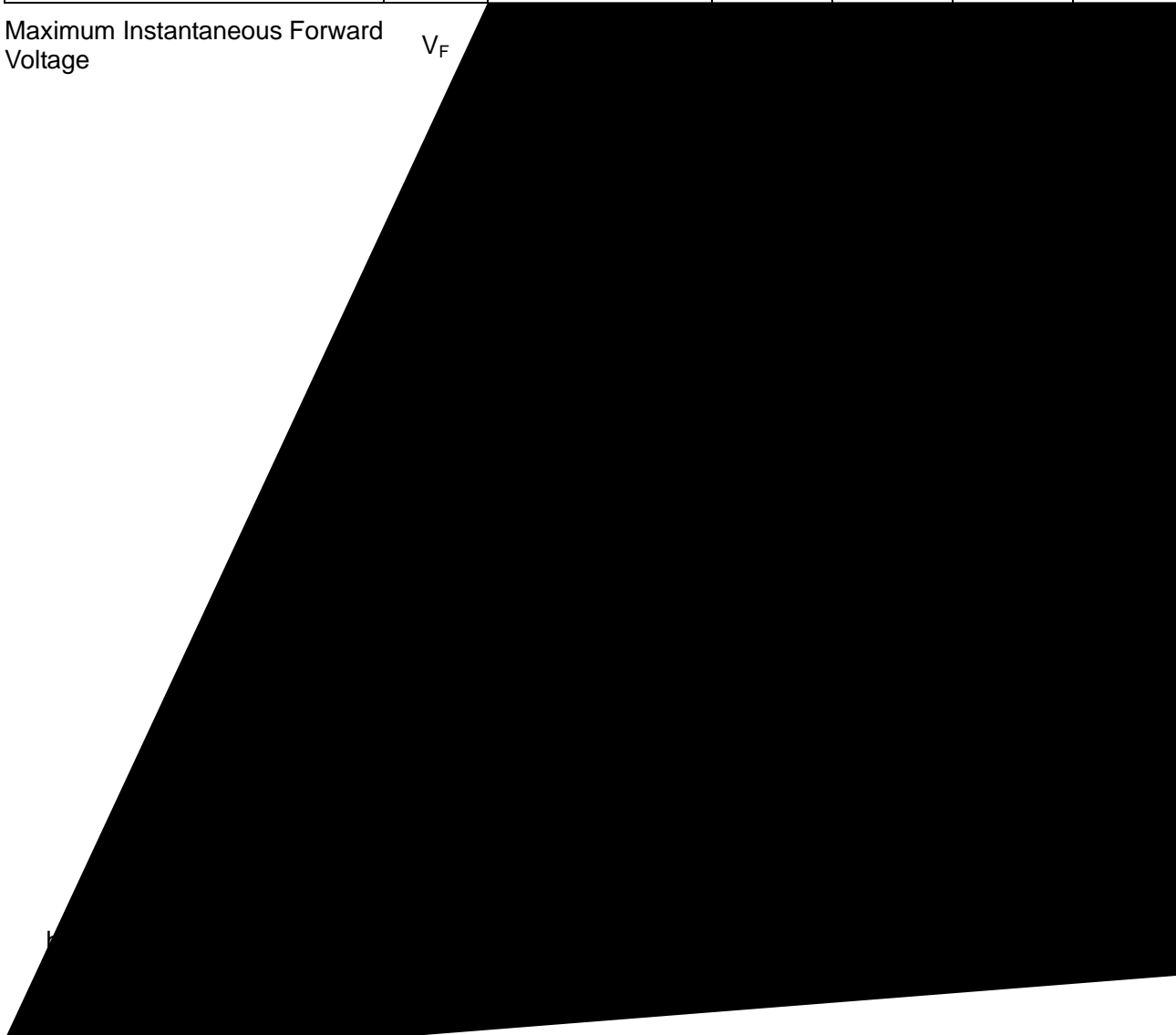


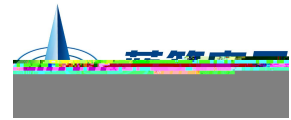
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Maximum Average Forward Current	I_O	0.2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	13	A
Typical Thermal Resistance	R_{JA}	435	$^{\circ}C/W$
Typical Junction Capacitance at $V_R=0V$, $f=1MHz$	C_j	60	pF
Junction and Storage Temperature Range	T_J, T_{stg}	-55 to +125	$^{\circ}C$

Parameter	Symbol	Test Conditions	Rating			Unit
			Min	Typ	Max	

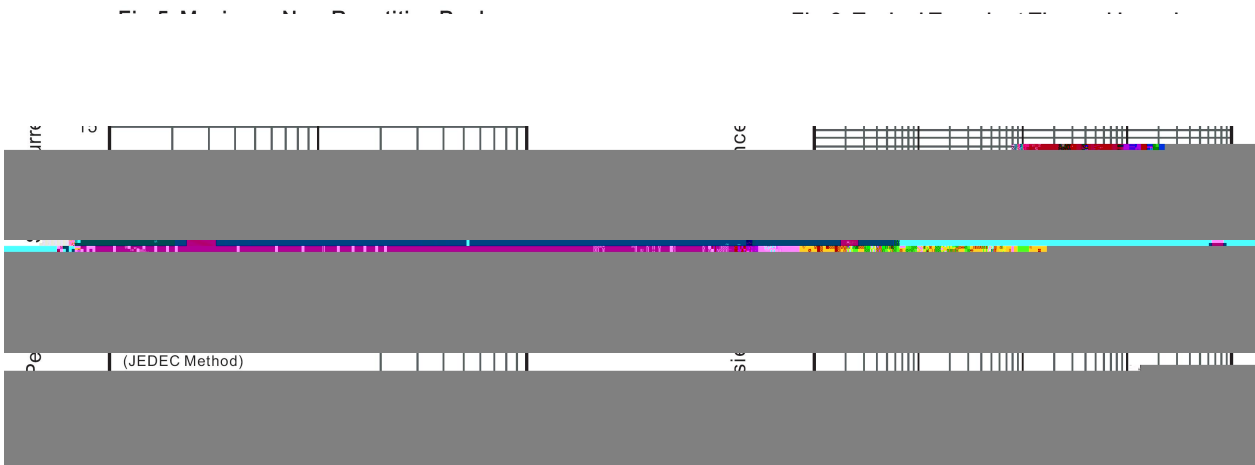
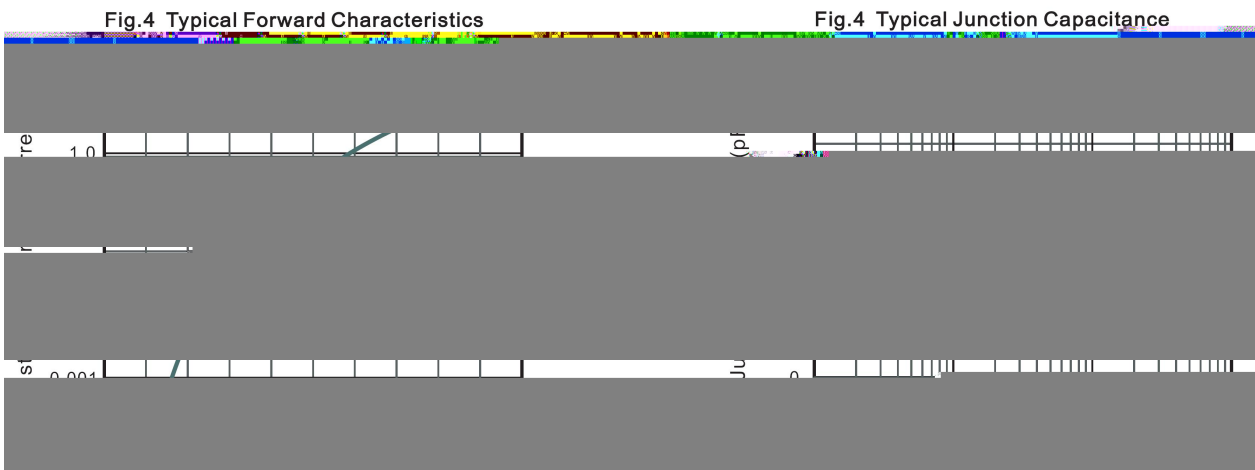
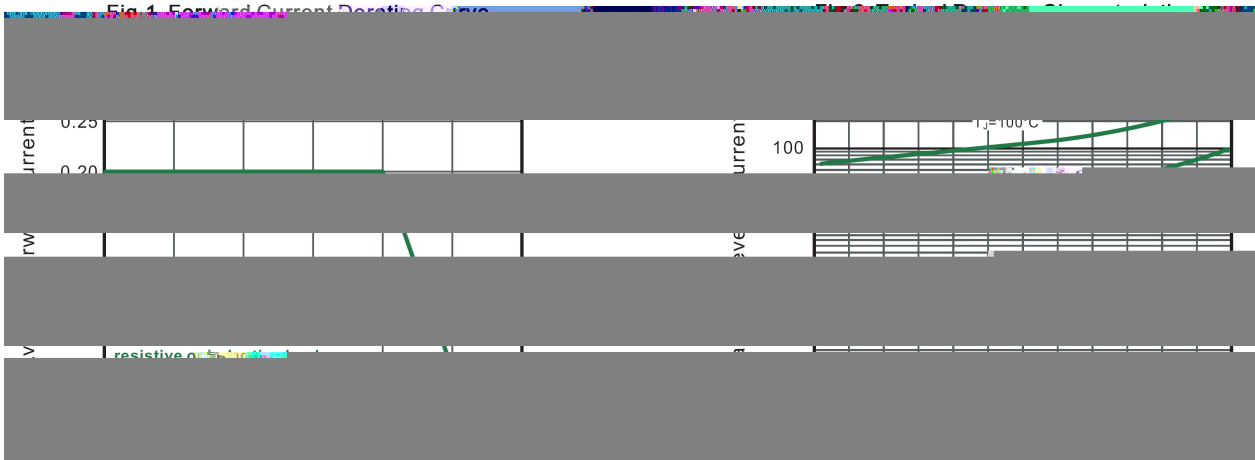
Maximum Instantaneous Forward Voltage

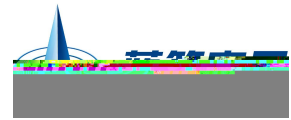
V_F



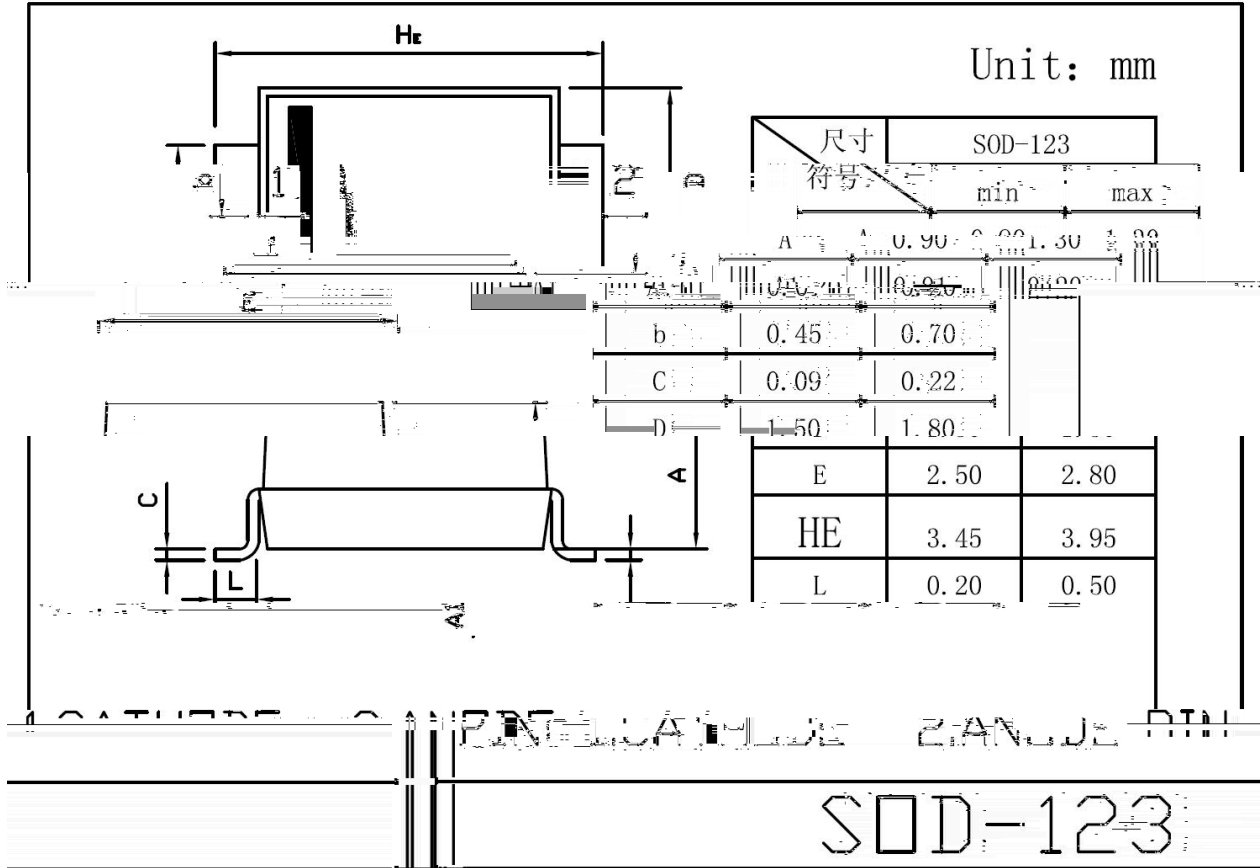


/ Electrical Characteristic Curve





/ Package Dimensions



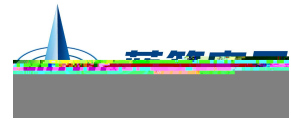
/ Marking Instructions



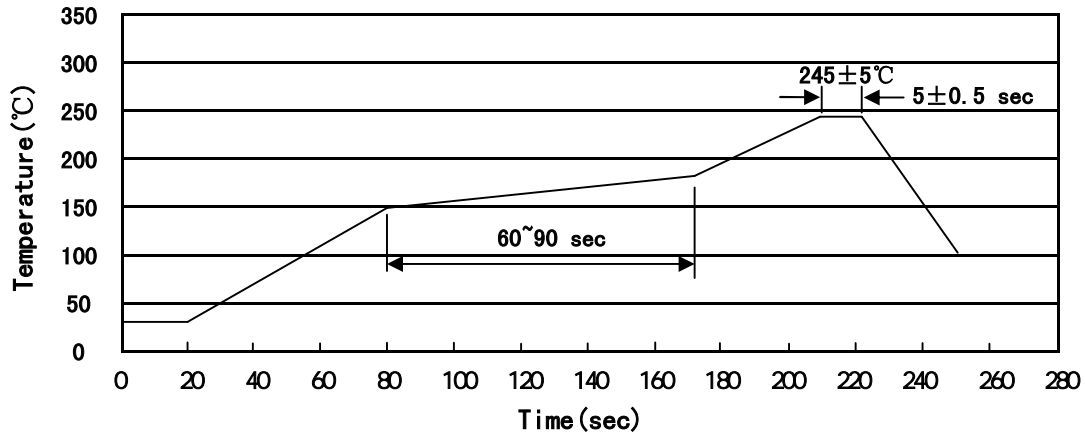
L4

Note:

L4 : Product Type



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Note:

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

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box	Outer Box
SOD-123	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

/ Notices