

描述 / Descriptions

SOD-123 塑封封装 硅半导体二极管。
Silicon Diode in a SOD-123 Plastic Package.

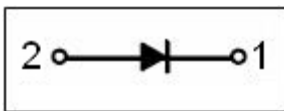
特征 / Features

平面工艺，高温漏电电流极小，可靠性较高。无卤产品。
Planar technology, high temperature leakage current is very small, and high reliability. HF Product.

用途 / Applications

LED 照明、充电器和一体化节能灯等整流电路中。
LED lighting, chargers and integrated energy-saving lamps and other rectifier circuit.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN1:Cathode PIN2:Anode

放大及印章代码 / h_{FE} Classifications & Marking

Model	2CZ4004	2CZ4005
Marking	HZ4	HZ5

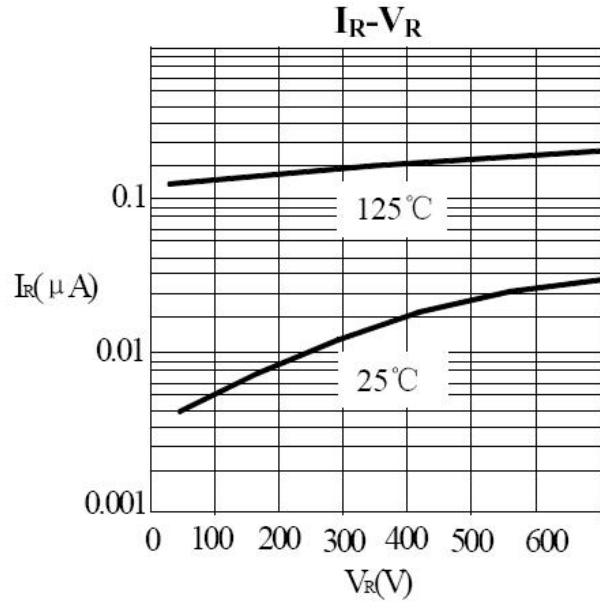
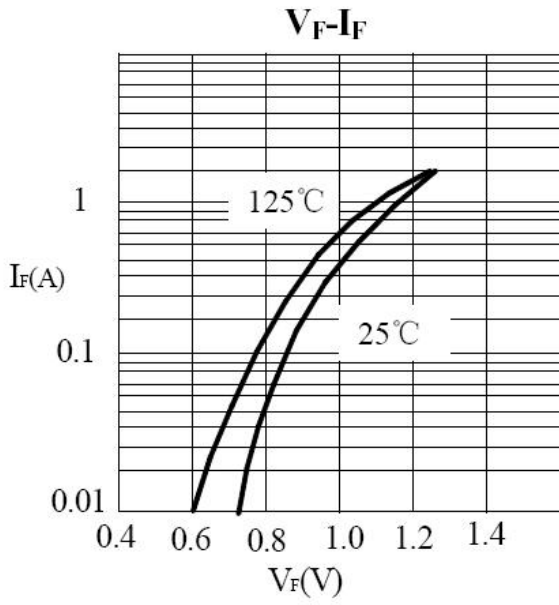
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating		单位 Unit
		2CZ4004	2CZ4005	
Peak Reverse Voltage	V_{RM} V_{DC}	400	600	V
Forward Continuous Current	$I_{F(AV)}$	1		A
Forward Continuous Current	I_{FM}	2		A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	7.5		A
Power Dissipation	P_D	500		mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250		°C/W
Junction and Storage Temperature Range	T_j, T_{STG}	-55 ~ +150		°C

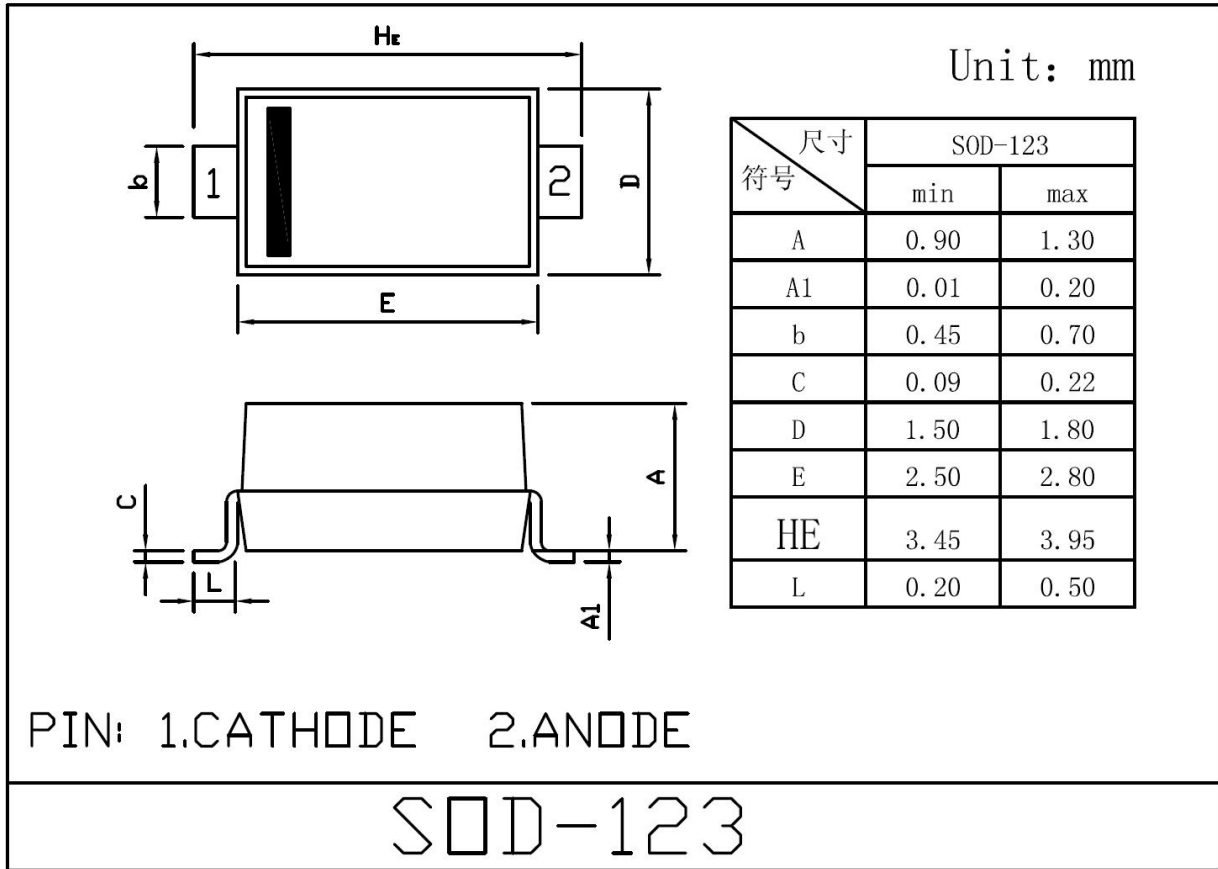
电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值	典型值	最大值	单位 Unit
			Min	Typ	Max	
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=1mA$	400			V
			600			
Instantaneous Reverse Current	I_R	$V_R=V_{RRM}$ $T_a=25^\circ C$			0.5	μA
		$V_R=V_{RRM}$ $T_a=125^\circ C$			2	
Voltage Rise when Switching On tested	V_F	$I_F=0.5A$			1.2	V
Total Capacitance	C_{tot}	$V_R=4V$ $f=1MHz$			10	pF

电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions



印章说明 / Marking Instructions



说明：

H： 为公司代码

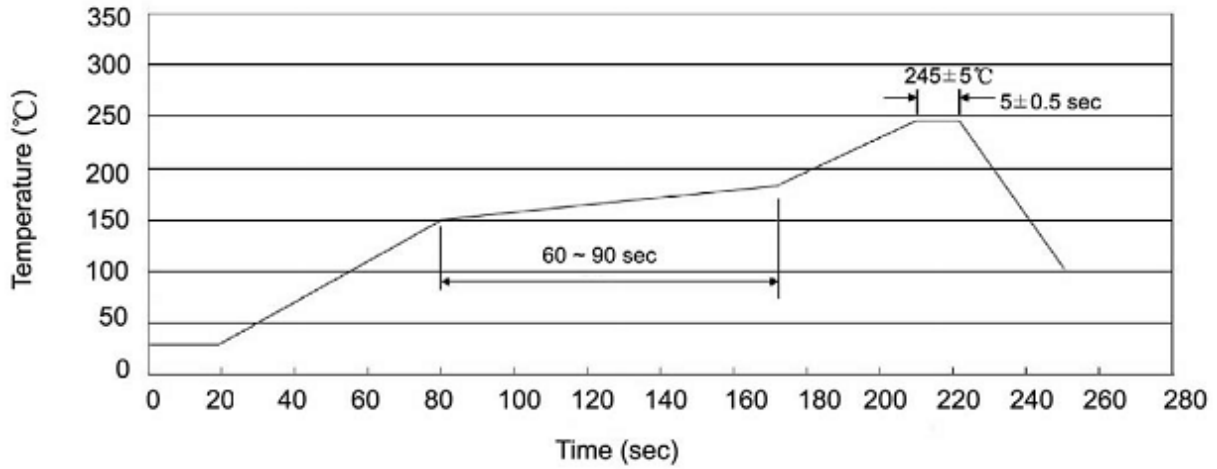
Z4： 为型号代码

Note:

H: Company Code.

Z4: Product Type.

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



说明：

- 1、预热温度 150 ~ 180°C，时间 60 ~ 90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

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

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (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 盒	Outer Box 箱
SOD-123	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

使用说明 / Notices