

SD103AW/BW/CW

Rev.F Apr.-2018

描述 / Descriptions

SOD-123 塑封封装肖特基二极管。

Schottky Diode in a SOD-123 Plastic Package.

特征 / Features

低正向压降，可忽略的反向恢复时间。无卤产品。

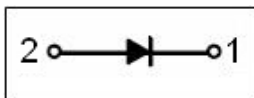
Low positive pressure drop, can ignore the reverse recovery time. HF Product.

用途 / Applications

肖特基二极管。

Schottky diode.

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	SD103AW	SD103BW	SD103CW
Marking	HS4	HS5	HS6

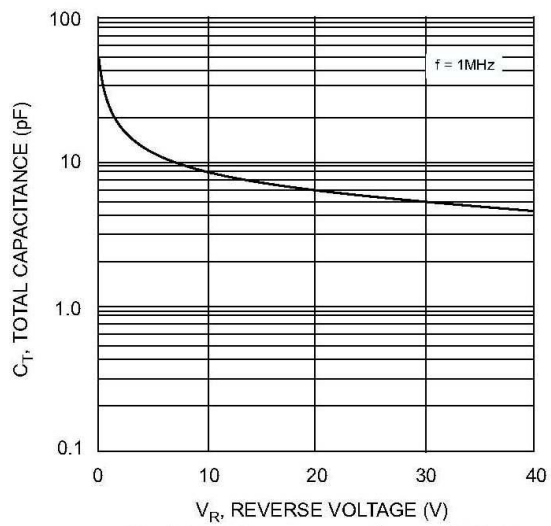
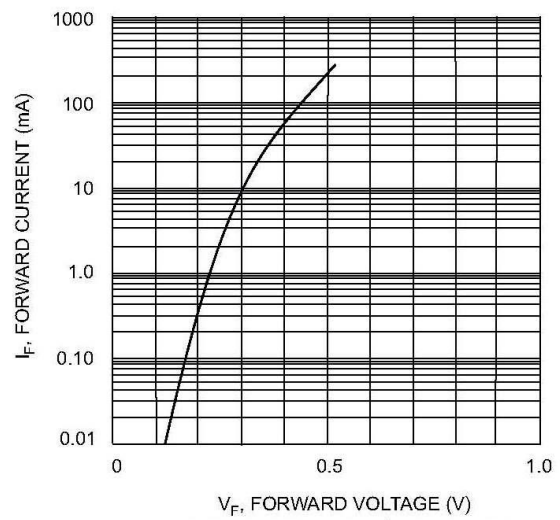
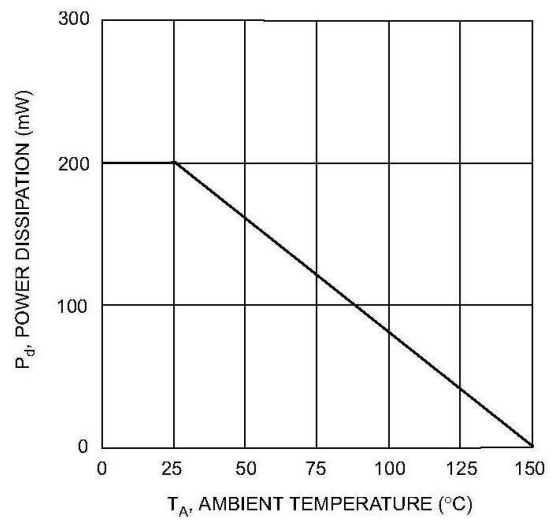
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating			单位 Unit
		SD103AW	SD103BW	SD103CW	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_R V_{RRM} V_{RWM}	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Non-Repetitive Peak Forward Current	I_{FM}	350			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	1.5			A
Power Dissipation	P_D	400			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	300			°C/W
Junction and Storage Temperature Range	T_j, T_{STG}	-65~125			°C

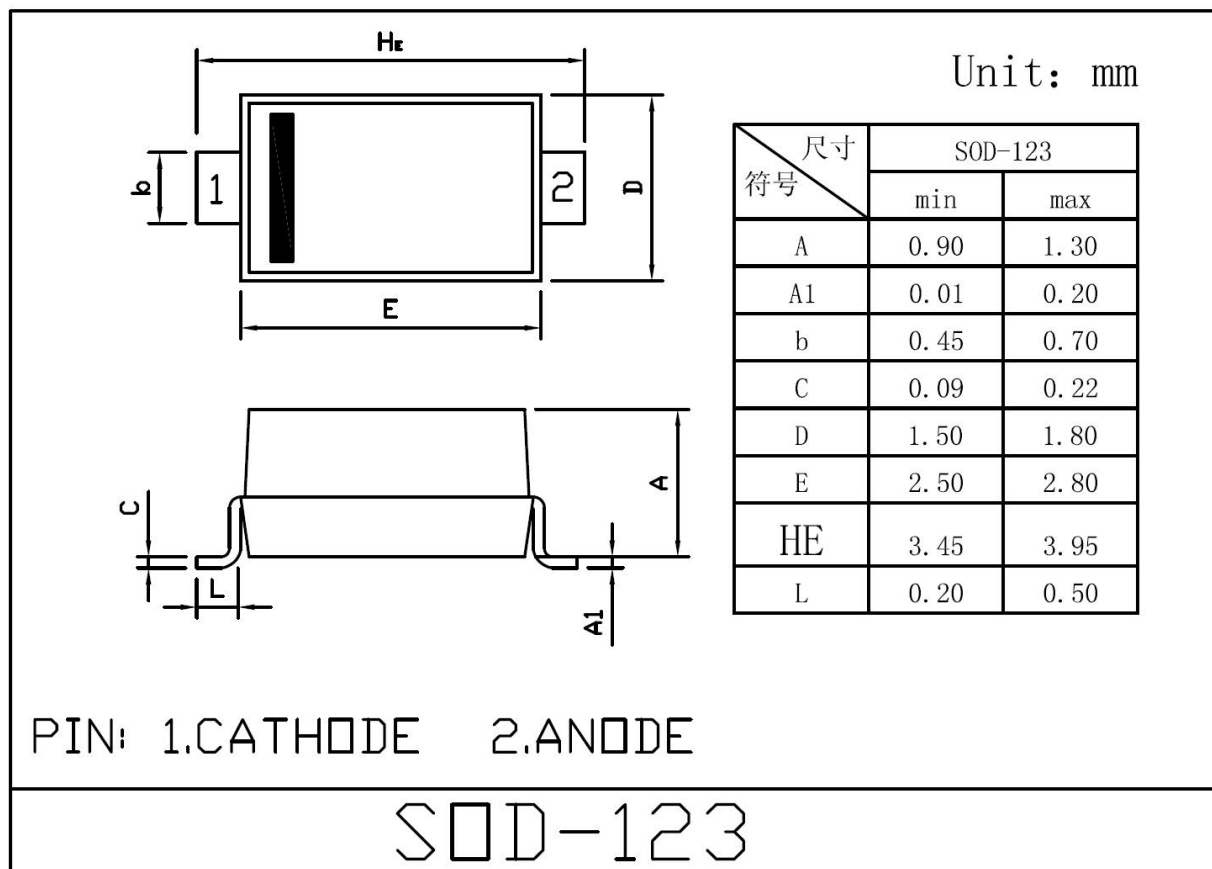
电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter		符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Forward Breakdown Voltage		$V_{(BR)R}$	$I_R=100\mu A$	V_R			V
Peak Forward Voltage		V_{FM}	$I_F=20mA$			0.37	
			$I_F=200mA$			0.6	
Peak Reverse Current	SD103AW	I_{RM}	$V_R=30V$			5	μA
	SD103BW		$V_R=20V$				
	SD103CW		$V_R=10V$				
Total Capacitance		C_T	$V_R=0V$ $f=1.0MHz$		28		pF
Resistance Range Time		t_{rr}	$I_F=I_R=200mA$ $I_{rr}=0.1 \times I_R$ $R_L=100\Omega$		10		ns

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

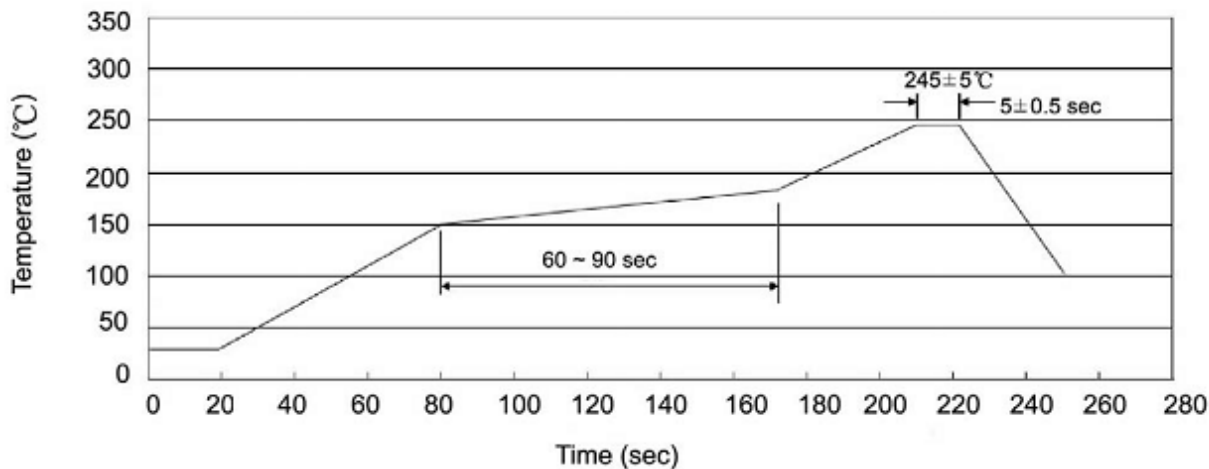
S5： 为型号代码

Note:

H: Company Code.

S5: 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℃，时间 60 ~ 90sec;
- 2、峰值温度 245±5℃，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10℃/sec.

Note:

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

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

温度：260±5℃

时间：10±1 sec.

Temp.:260±5℃

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" x8	180×120×180	390×385×205

使用说明 / Notices