

BAV19W-BAV21W

Rev.F Mar.-2016

描述 / Descriptions

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

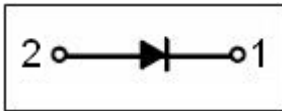
特征 / Features

开关速度快。
Fast switching diodes.

用途 / Applications

用于小信号处理。
Small signal 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	BAV19W	BAV20W	BAV21W
Marking	HA8	HT2	HT3

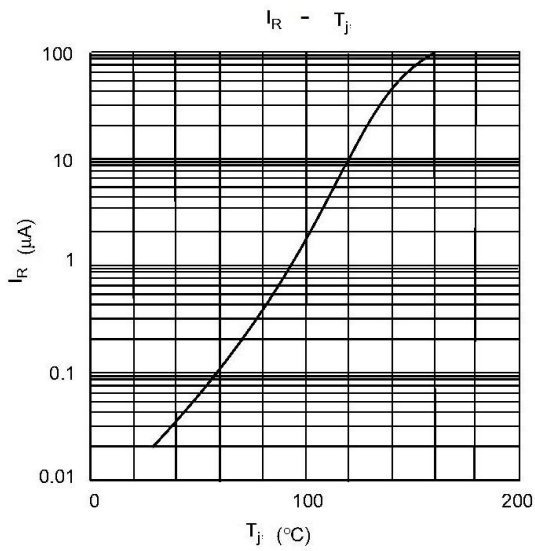
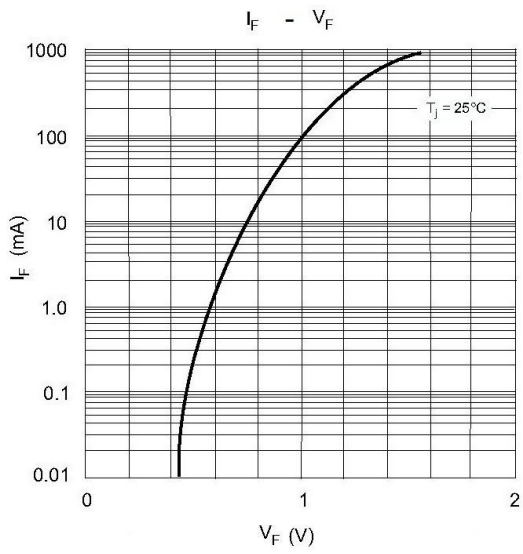
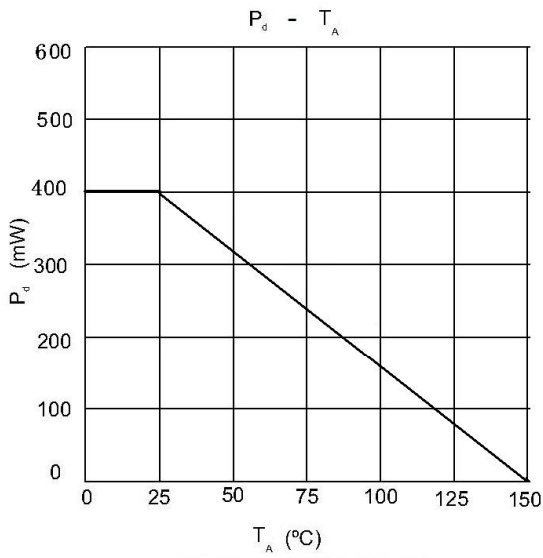
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating			单位 Unit
		BAV19W	BAV20W	BAV21W	
Peak Repetitive Reverse Voltage	V_{RRM}	120	200	250	V
Working Peak Reverse Voltage DC Reverse Voltage	V_{RWM} V_R	100	150	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Non-Repetitive Peak Forward Current	I_{FM}	400			mA
Output Current	I_O	200			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	t=1.0μs:2.5A t=1.0s:0.5A			A
Power Dissipation	P_d	400			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			°C/W
Junction and Storage Temperature Range	T_J, T_{stg}	-65°C TO +150°C			°C

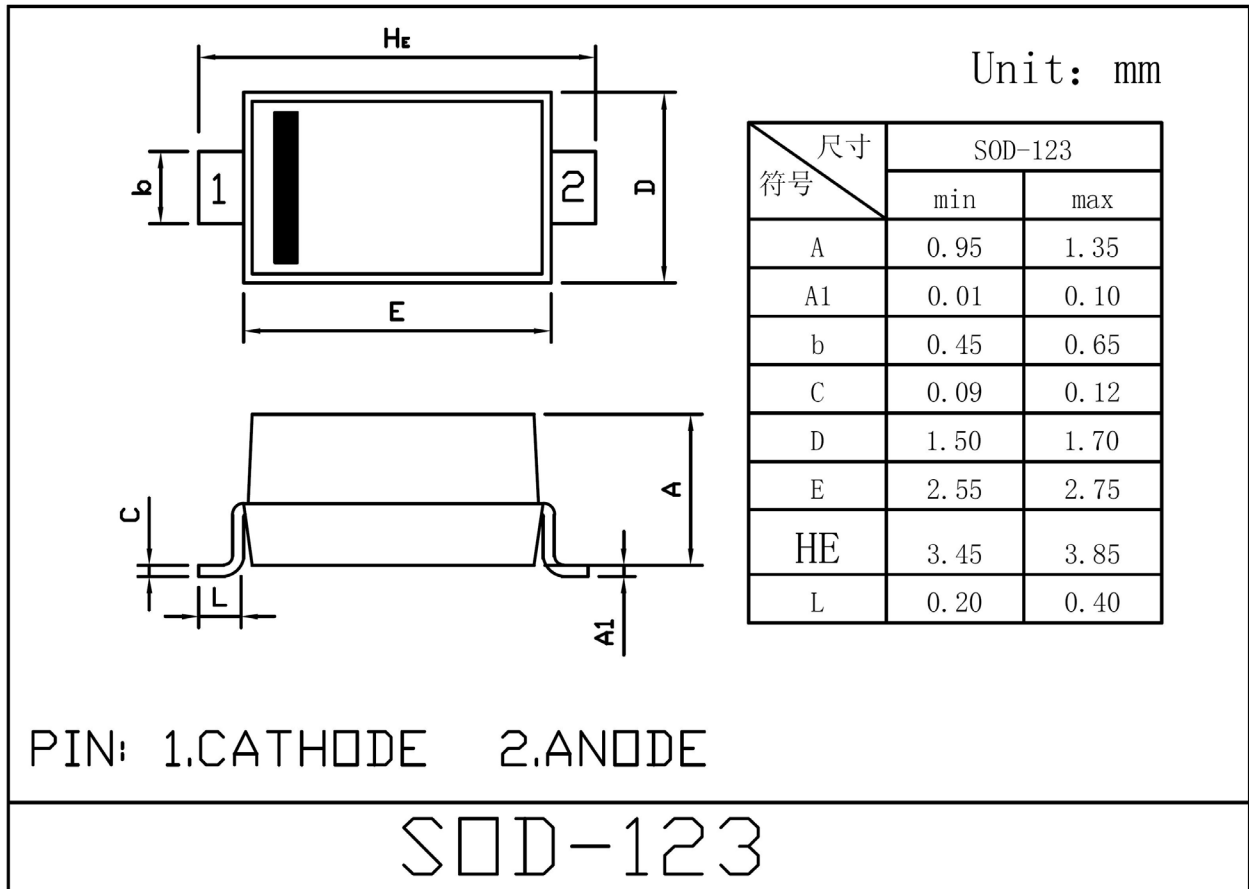
电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating		单位 Unit	
			MIN	MAX		
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100\mu A$	BAV19W	120		V
			BAV20W	200		
			BAV21W	250		
Peak Forward Voltage	V_{FM}	$I_F=100mA$		1.0	V	
		$I_F=200mA$		1.25		
Instantaneous Reverse Current	I_{RM}	$T_J=25^\circ C$ $V_R=V_{RWM}$		100	nA	
		$T_J=100^\circ C$ $V_R=V_{RWM}$		15	uA	
Reverse Recovery Time	t_{rr}	$I_F=I_R=30mA$, $I_{rr}=0.1I_R$ $R_I=100\Omega$		50	ns	
Total Capacitance	C_T	$V_R=0$ $f=1.0MHz$		5.0	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

A8： 为型号代码

Note:

H: Company Code.

A8: 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 25~150°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:25~150°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	8	240,000	7" x8	180×120×180	385×257×392

使用说明 / Notices