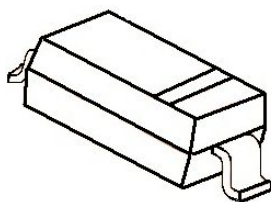




特征 Features

- 开关速度小于 50nS; Fast Switching Device (TRR <50nS)
- 最大功率耗散 500mW; Power Dissipation of 500mW
- 高稳定性和可靠性。High Stability and High Reliability
- 反向漏电流小。Low reverse leakage

SOD-123



机械数据 Mechanical Data

- 封装 : SOD-123 封装 SOD-123 Small Outline Plastic Package
- 极性 : 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position:Any

Ordering Information

Type No.	Marking	Package Code
BAV19W	A8	SOD-123
BAV20W	T2	SOD-123
BAV21W	T3	SOD-123

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value			单位 Unit
		BAV19W	BAV20W	BAV21W	
反向电压 Reverse Voltage	VR	120	200	250	V
反向峰值电压 Peak Reverse Voltage	VRM	100	150	250	V
功率消耗 Power Dissipation	Pd	500			mW
工作结温 Operating junction temperature	Tj	150			℃
存储温度 Storage temperature range	Ts	-65+ 150			℃
热阻 Thermal Resistance from Junction to Ambient	RθJA	250			℃/W
反向工作电压 Working Inverse Voltage	WIV	75			V
平均整流电流 Average Rectified Current	IO	200			mA
正向(不重复)电流 Non-repetitive Peak Forward Current	IFM	400			mA
正向(不重复)浪涌电流 Peak Forward Surge Current @tp=1ms; TA=25℃	IFSM	2.5			A

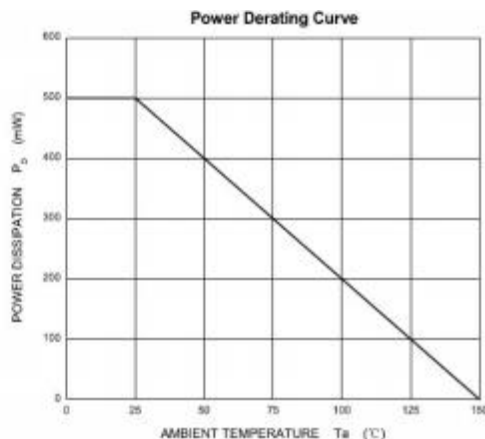
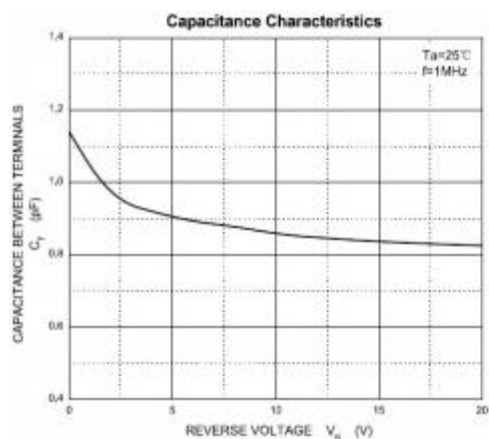
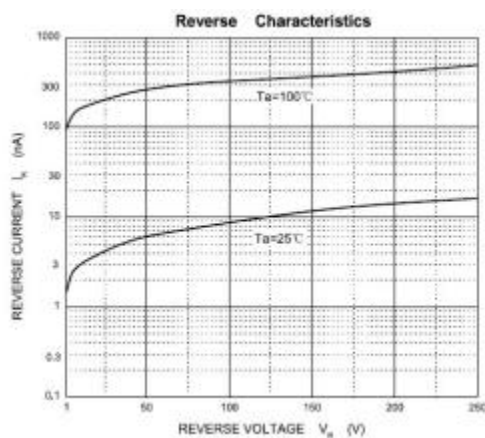
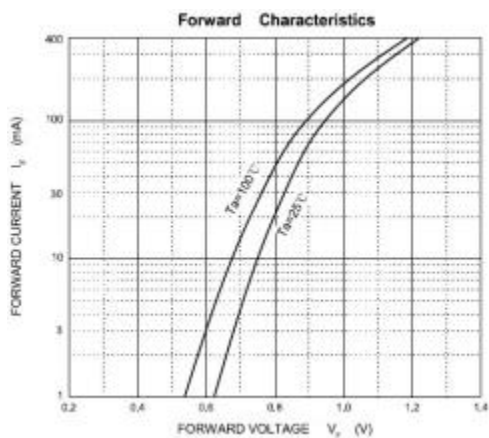
Valid provided that electrodes are kept at ambient temperature.



电特性 Electrical Characteristics (Ratings at 25 °C ambient temperature unless otherwise specified).

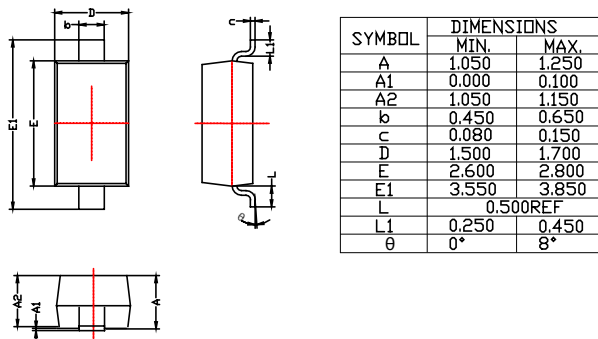
符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
VRB	反向击穿电压 Reverse Voltage	IB=100uA BAV19W BAV20W BAV21W	120 200 250	---	V
IR	反向漏电流 Reverse Leakage Current	VR=100V BAV19W VR=150V BAV20W VR=200V BAV21W	---	0.1	uA
VF	正向电压 Forward Voltage	IF=100mA	---	1.00	V
		IF=200mA	---	1.25	
TRR	反向恢复时间 Reverse Recovery Time	IF= 30mA, IR=30mA	---	50	nS
		RL=100Ω			
		IRR=3mA			
C	结电容 Capacitance	VR=0V, f=1MHZ	---	5	pF

典型特性 Typical Characteristics



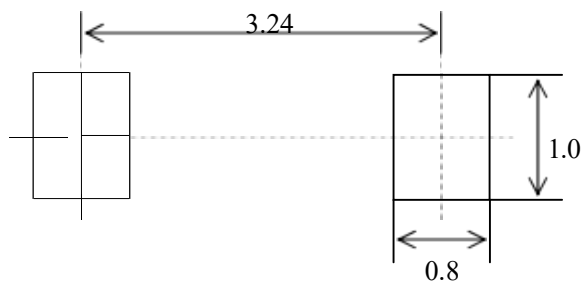


SOD-123 PACKAGE OUTLINE Plastic surface mounted package



焊盘设计参考 Precautions: PCB Design

Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs



中心距: 3.24
脚宽: 0.55
焊盘宽: 1.00
脚长: 0.50
焊盘长: 0.80

技术要求:

- 1, 塑封体尺寸: 2.70 X 1.60
- 2, 未注公差为: ±0.05
- 3, 所有单位: mm