

MARKING: BAV19W: A8  
BAV20W: T2  
BAV21W: T3

### 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

### 机械数据 Mechanical Data

- 封装: SOD-123 封装 Flat Lead SOD-123 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

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			℃
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	IFSM	2.5			A

@tp=1ms; TA=25℃

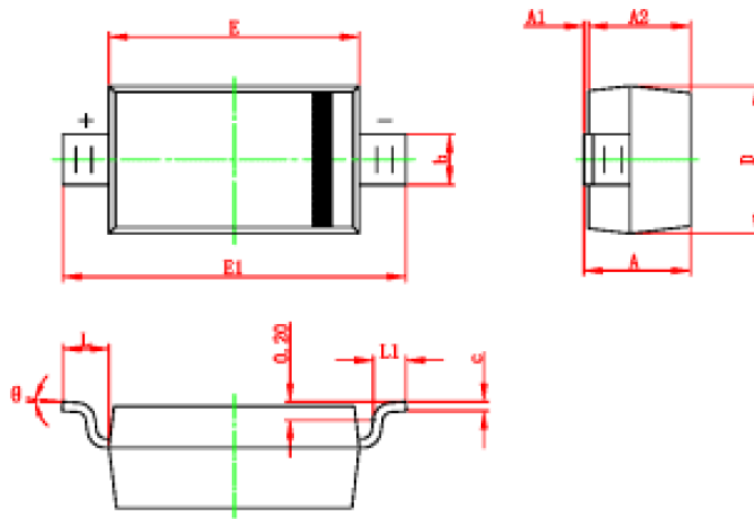
Valid provided that electrodes are kept at ambient temperature.

电特性 **Electrical Characteristics** (Ratings at 25℃ 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 IF=200mA	---	1.00 1.25	V
TRR	反向恢复时间 Reverse Recovery Time	IF= 30mA, IR=30mA RL=100Ω IRR=3mA	---	50	nS
C	结电容 Capacitance	VR=0V, f=1MHZ	---	5	pF

### SOD-123 PACKAGE OUTLINE

Plastic surface mounted package



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°