

BAV19W-BAV21W

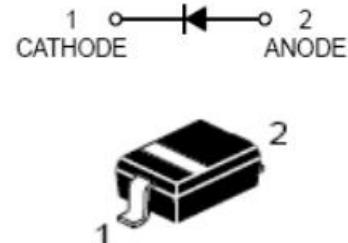
SOD-123 Switching Diode 开关二极管**■Features 特点**

Fast Switching Speed 快的开关速度

Surface mount device 表面贴装器件

High Conductance 高电导率

Case 封装:SOD-123

**■Maximum Rating 最大额定值**

(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	BAV19W	BAV20W	BAV21W	Unit 单位	
Peak Reverse Voltage 反向峰值电压	V _{RRM}	120	200	250	V	
DC Reverse Voltage 直流反向电压	V _R	120	200	250	V	
RMS Reverse Voltage 反向电压均方根值	V _{R(RMS)}	100	150	200	V	
Forward Rectified Current 正向整流电流	I _F	0.25			A	
Peak Surge Current 峰值浪涌电流 @1S	I _{FSM}	1			A	
Peak Surge Current 峰值浪涌电流 @1mS		3				
Peak Surge Current 峰值浪涌电流 @1μS		9				
Power Dissipation 耗散功率	P _D	250			mW	
Thermal Resistance J-A 结到环境热阻	R _{θJA}	500			°C/W	
Junction/Storage Temperature 结温/储藏温度	T _J , T _{stg}	-50to+150°C			°C	

■Electrical Characteristics 电特性

(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	BAV19W	BAV20W	BAV21W	Unit 单位	Condition 条件
Reverse Voltage 反向电压	V _R	120	200	250	V	I _R =1mA
Forward Voltage 正向电压	V _F	1.25			V	I _F =0.2A
Reverse Current 反向电流	I _R	0.1			μA	V _R =V _{RRM}
Reverse Recovery Time	T _{rr}	50			nS	
Diode Capacitance 二极管电容	C _T	5			pF	V _R =4V,f=1MHz

■ Typical Characteristic Curve 典型特性曲线

Fig.1 Forward Current Derating Curve

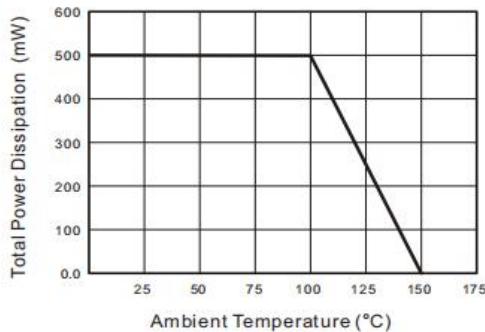


Fig.2 Typical Reverse Characteristics

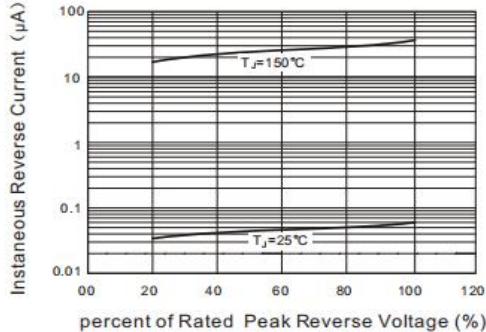


Fig.3 Typical Instantaneous Forward Characteristics

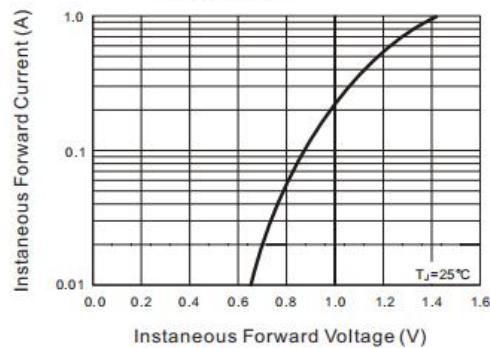
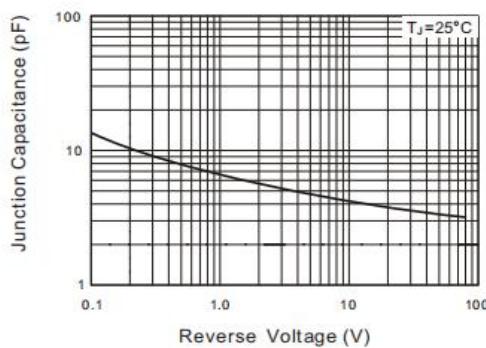
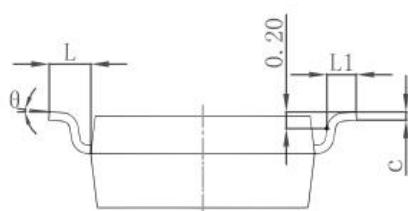
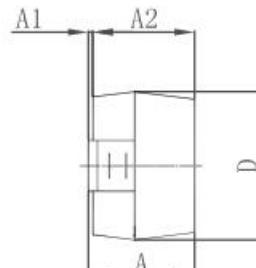
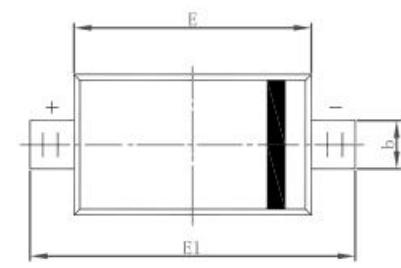


Fig.4 Typical Junction Capacitance



■ Dimension 外形封装尺寸 SOD-123



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°