

SOD-323 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-323



■Maximum Rating 最大额定值

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	BAV19WS-6AF	BAV20WS-6AF	BAV21WS-6AF	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	I_{FSM}	1			A
@1S		3			
@1mS		9			
@1μS					
Power Dissipation 耗散功率	P_D	200			mW
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	625			$^{\circ}\text{C}/\text{W}$
Junction/Storage Temperature 结温/储藏温度	T_J, T_{stg}	$-50\text{to}+150^{\circ}\text{C}$			$^{\circ}\text{C}$

■Electrical Characteristics 电特性

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	BAV19WS-6AF	BAV20WS-6AF	BAV21WS-6AF	Unit 单位	Condition 条件
Reverse Voltage 反向电压	V_R	120	200	250	V	$I_R=1\text{mA}$
Forward Voltage 正向电压	V_F	1.25			V	$I_F=0.2\text{A}$
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	$V_R=4\text{V}, f=1\text{MHz}$

■ Typical Characteristic Curve 典型特性曲线

Fig.1 Forward Current Derating Curve

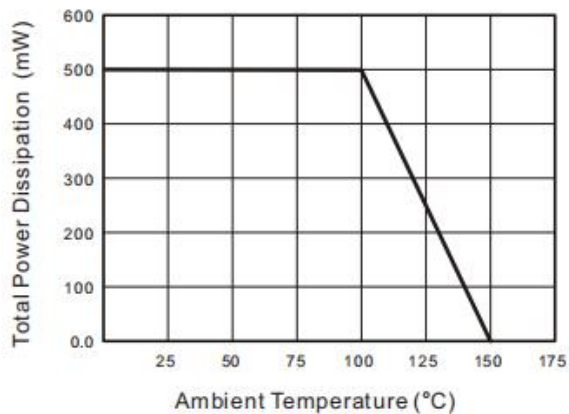


Fig.2 Typical Reverse Characteristics

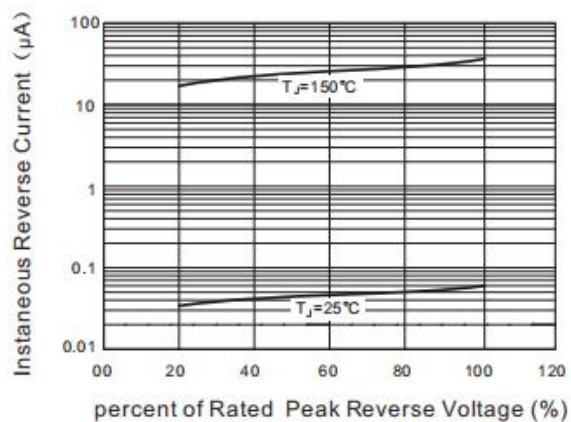


Fig.3 Typical Instaneous Forward Characteristics

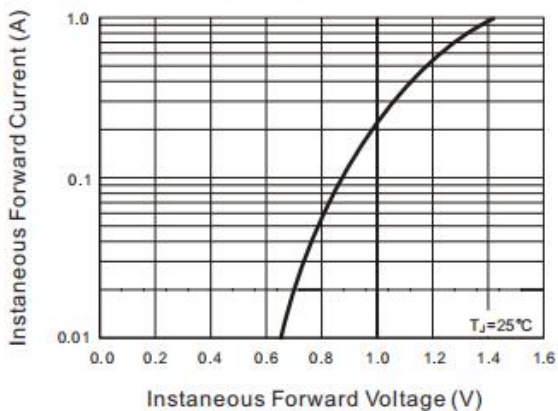
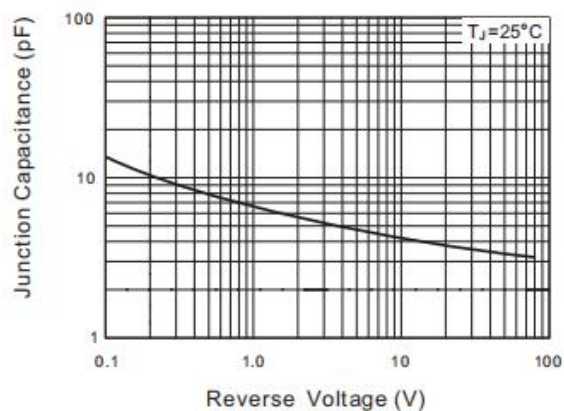
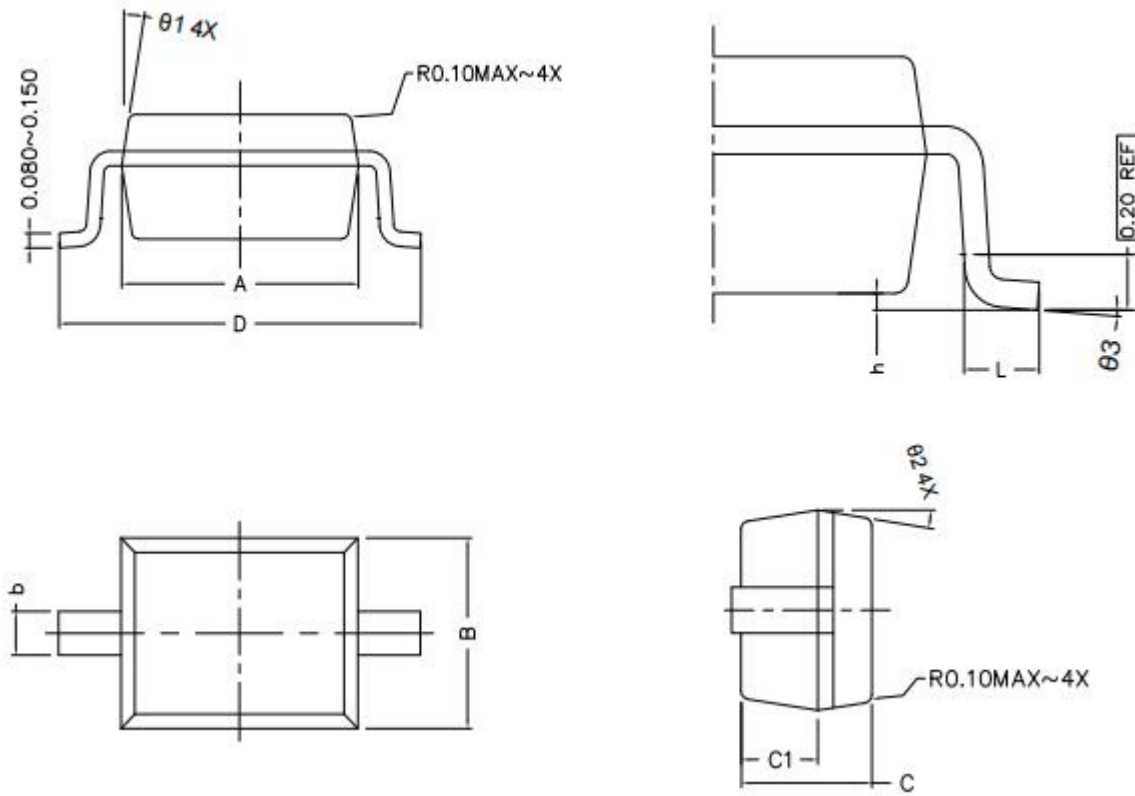


Fig.4 Typical Junction Capacitance



■ Dimension 外形封装尺寸 SOD-323



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.600	1.800	0.063	0.071
B	1.200	1.400	0.047	0.055
C	0.750	0.950	0.030	0.037
C1	0.450	0.550	0.018	0.022
D	2.450	2.800	0.096	0.110
L	0.200	0.400	0.008	0.016
b	0.200	0.400	0.008	0.016
h	0.020	0.120	0.001	0.005
$\ominus 3$	0°	8°	0°	8°