BAS316

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
Marking 印字：A6



■Maximum Rating 最大额定值

(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃**)**

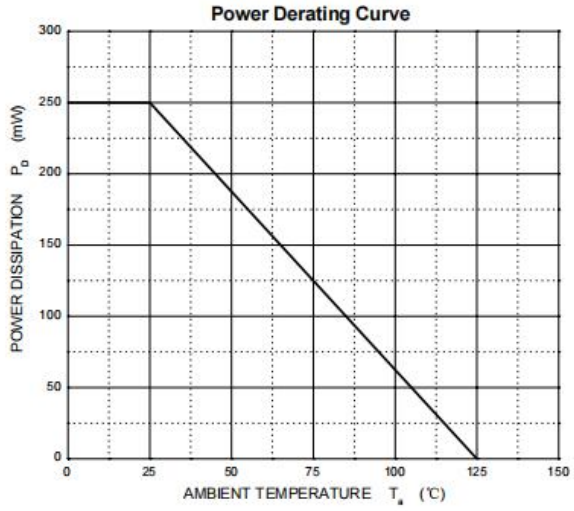
Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Non-Repetitive Peak Reverse Voltage 不重复反向峰值电压	V_{RM}	100	V
DC Reverse Voltage 直流反向电压	V_R	100	V
Forward Rectified Output Current 正向工作电流	I_O	250	mA
Non-Repetitive Peak Surge Current@t=1S 不重复峰值浪涌电流@t=1μS	I_{FSM}	0.5 4	A
Power Dissipation 耗散功率	P_D	250	mW
Thermal Resistance Junction-Ambient 结到环境热阻	$R_{\theta JA}$	500	℃/W
Junction/Storage Temperature 结温/储藏温度	T_J,T_{stg}	-50to+150℃	℃

■Electrical Characteristics 电特性

(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃**)**

Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位	Condition 条件
Reverse Voltage 反向电压	V_R	100		V	I_R=1μA
Forward Voltage 正向电压	V_F		0.715 0.855 1.0 1.25	V	I_F=1mA I_F=10mA I_F=50mA I_F=150mA
Reverse Current 反向电流	I_R		1 25 50 30	μA nA μA μA	V_R=100V V_R=20V V_R=100V T_J=150℃ V_R=20V T_J=150℃
Junction Capacitance 结电容	C_J		2	pF	V_R=4V,f=1MHz
Revers Recovery Time 反向恢复时间	Trr		4	nS	I_{rr} = 0.1*I_R, I_F = I_R = 10 mA, R_L= 100Ω

■Typical Characteristic Curve 典型特性曲线



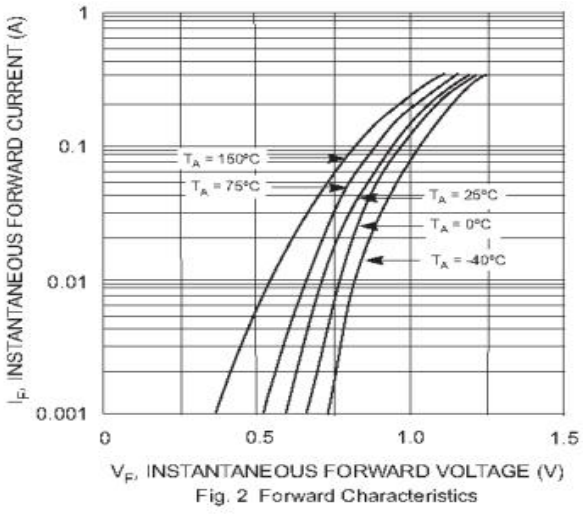


Fig. 2 Forward Characteristics

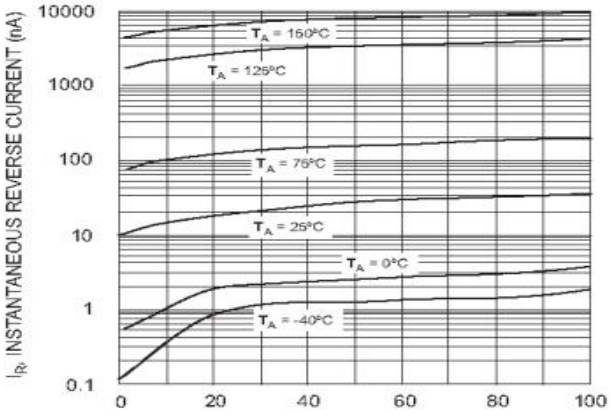


Fig. 3 Typical Reverse Characteristics

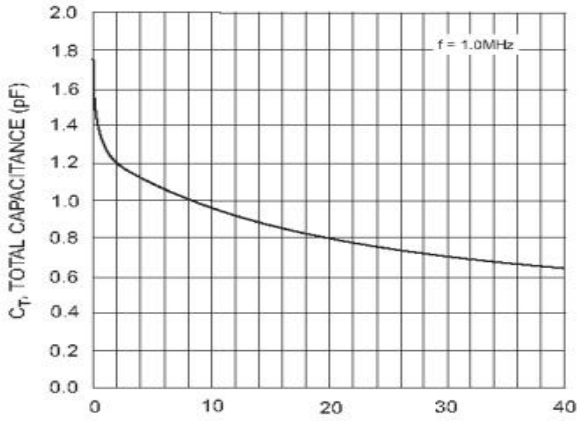
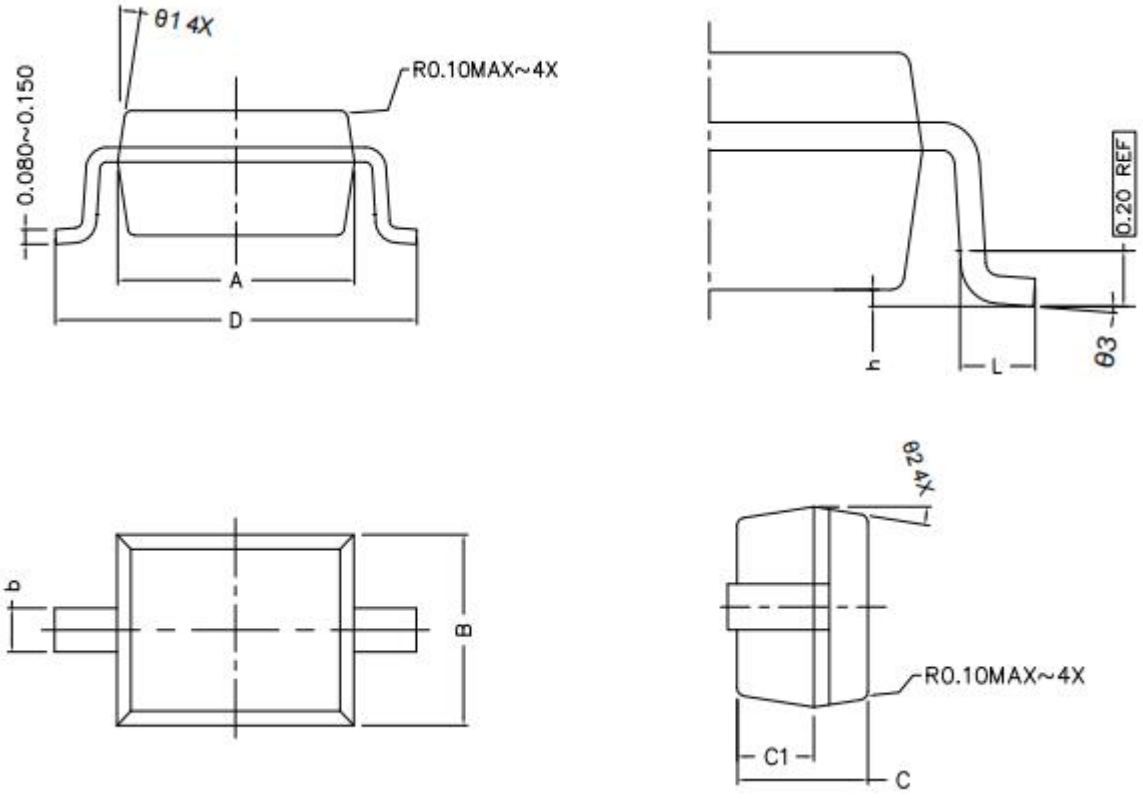


Fig. 4 Typical Capacitance vs. Reverse Voltage

■ **Dimension 外形封装尺寸**



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
Θ3	0°	8°	0°	8°