

SOD-323 Schottky Barrier Diode 肖特基势垒二极管

Internal Configuration & Device Marking 内部结构与产品打标

Type 型号	BAT46WS		
Pin 管脚			
Mark 打标	S9		

Absolute Maximum Ratings 最大额定值

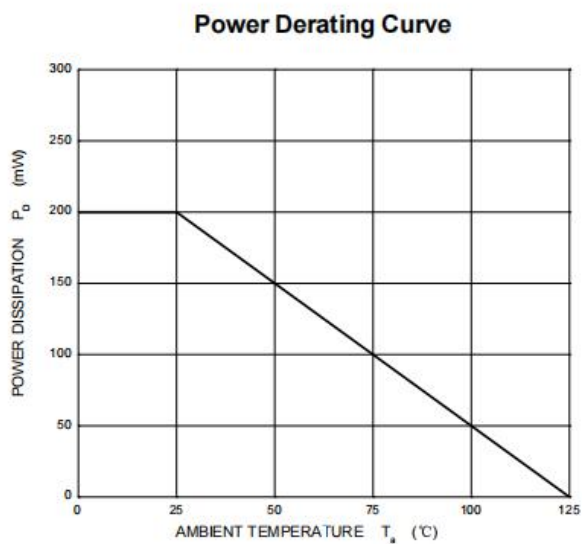
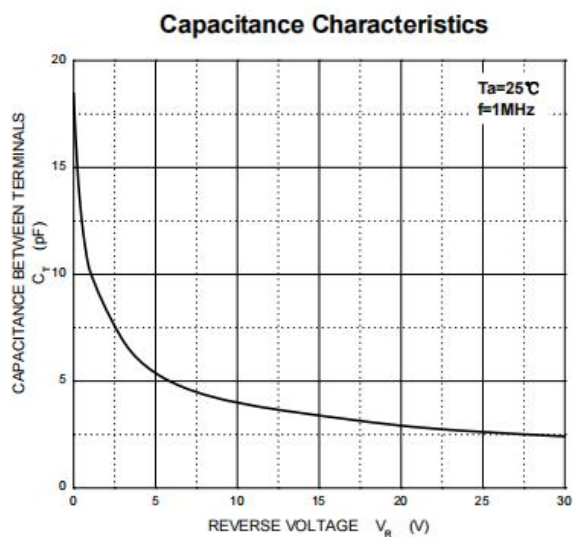
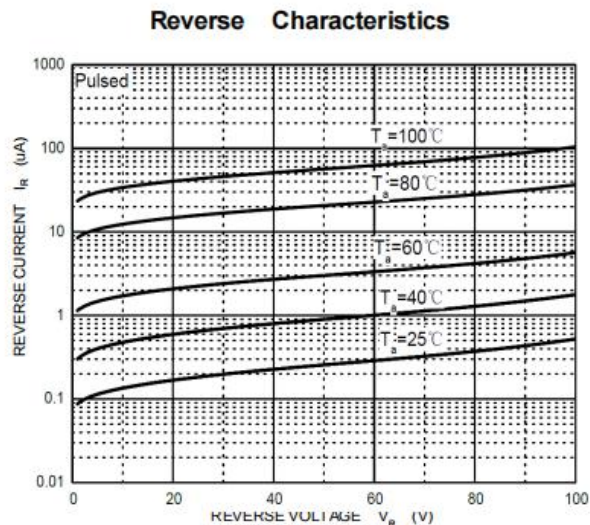
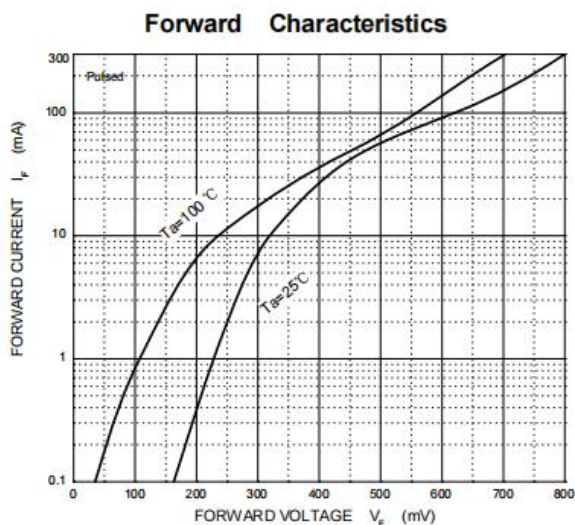
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Peak Reverse Voltage 反向峰值电压	V_{RRM}	100	V
Reverse Work Voltage 反向工作电压	V_{RWM}		
Forward Work Current 正向工作电流	$I_F(I_O)$	150	mA
Repetitive Peak Forward Current 重复正向峰值电流	I_{FRM}	350	mA
Surge Peak Forward Current 正向峰值浪涌电流	I_{FSM}	750	mA
Power dissipation 耗散功率	$P_D(T_a=25^\circ\text{C})$	200	mW
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Junction Temperature 结温	T_J	-40to+125 $^\circ\text{C}$	
Storage Temperature 储藏温度	T_{stg}	-55to+150 $^\circ\text{C}$	

Electrical Characteristics 电特性

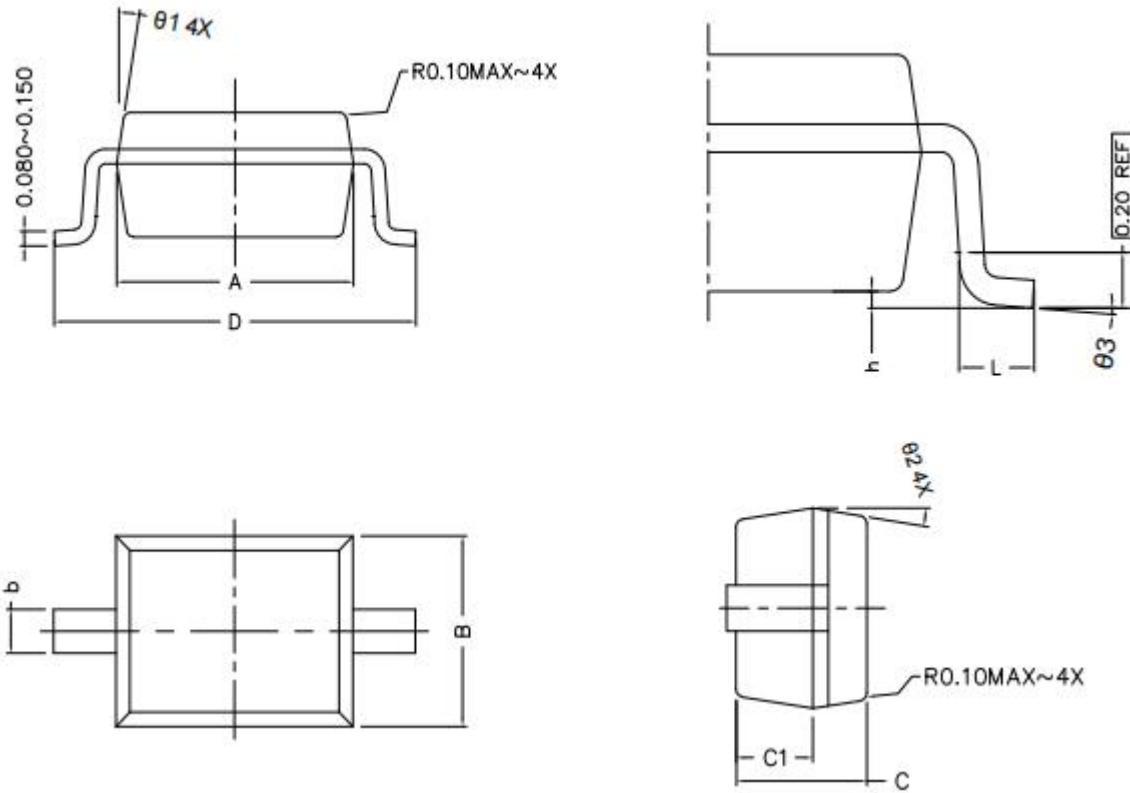
($T_A=25^\circ\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25 $^\circ\text{C}$)

Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Reverse Breakdown Voltage 反向击穿电压($I_R=100\mu\text{A}$)	$V_{(BR)}$	100	—	V
Reverse Leakage Current($V_R=10\text{V}$) 反向漏电流($V_R=50\text{V}$) ($V_R=75\text{V}$)	I_R	—	0.5 1 2	μA
Forward Voltage($I_F=0.1\text{mA}$) 正向电压($I_F=10\text{mA}$) ($I_F=250\text{mA}$)	V_F		0.25 0.45 1	V
Diode Capacitance($V_R=0\text{V}$, $f=1\text{MHz}$) 二极管电容($V_R=1\text{V}$, $f=1\text{MHz}$)	C_D	—	20 12	pF

■ Typical Characteristic Curve 典型特性曲线



■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
Θ_3	0°	8°	0°	8°