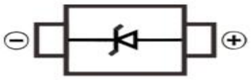
SOD-323 Schottky Barrier Diode 肖特基势垒二极管

■ 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

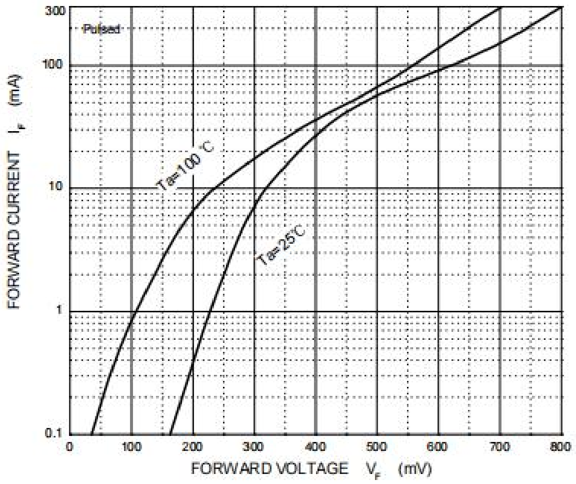
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Peak Reverse Voltage 反向峰值电压	V_{RRM}	100	V
Reverse Work Voltage 反向工作电压	V_{RWM}		
Forward Work Current 正向工作电流	$I_F(I_O)$	150	mA
Repetitive Peak Forward Current 重复正向峰值电流	I_{FRM}	350	mA
Surge Peak Forward Current 正向峰值浪涌电流	I_{FSM}	750	mA
Power dissipation 耗散功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

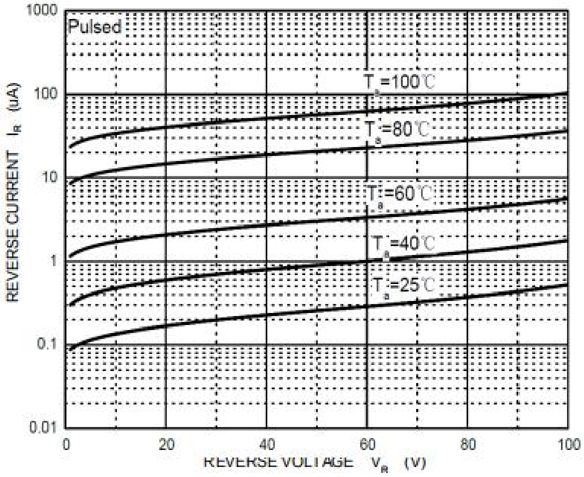
■Electrical Characteristics 电特性

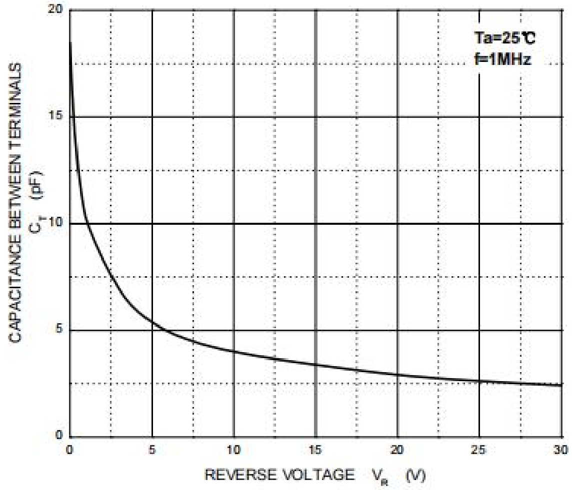
(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃)

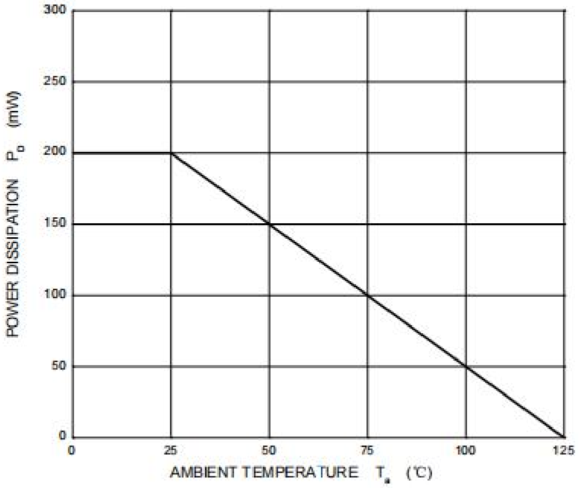
Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Reverse Breakdown Voltage 反向击穿电压(I_R=100μA)	$V_{(BR)}$	100	—	V
Reverse Leakage Current(V_R=10V) 反向漏电流(V_R=50V) (V_R=75V)	I_R	—	0.5 1 2	μA
Forward Voltage(I_F=0.1mA) 正向电压(I_F=10mA) (I_F=250mA)	V_F		0.25 0.45 1	V
Diode Capacitance(V_R=0V, f=1MHz) 二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

■Typical Characteristic Curve 典型特性曲线

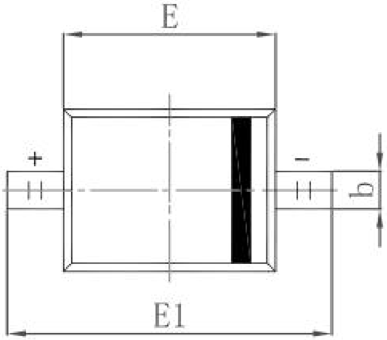

Forward Characteristics

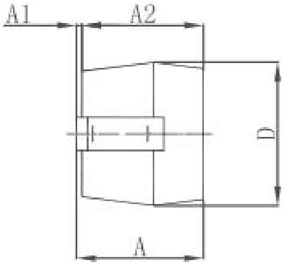

Reverse Characteristics

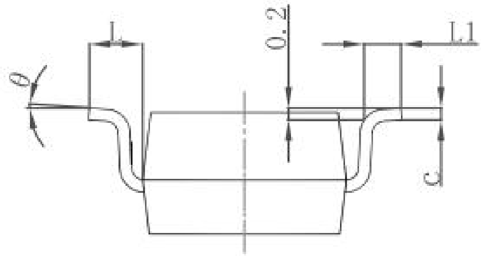

Capacitance Characteristics


Power Derating Curve

■Dimension 外形封装尺寸







Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°