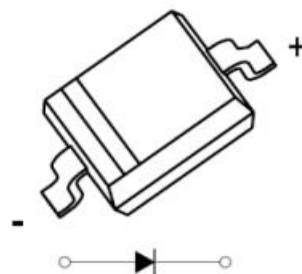


**SOD-323 Schottky Barrier Rectifier Diode 肖特基势垒整流二极管**

**SOD-323**

■ **Features 特点**

Fast switching time 快速开关时间  
Low forward voltage drop 低正向压降  
Surface mounted device 表面贴装器件  
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  $25^{\circ}\text{C}$ )

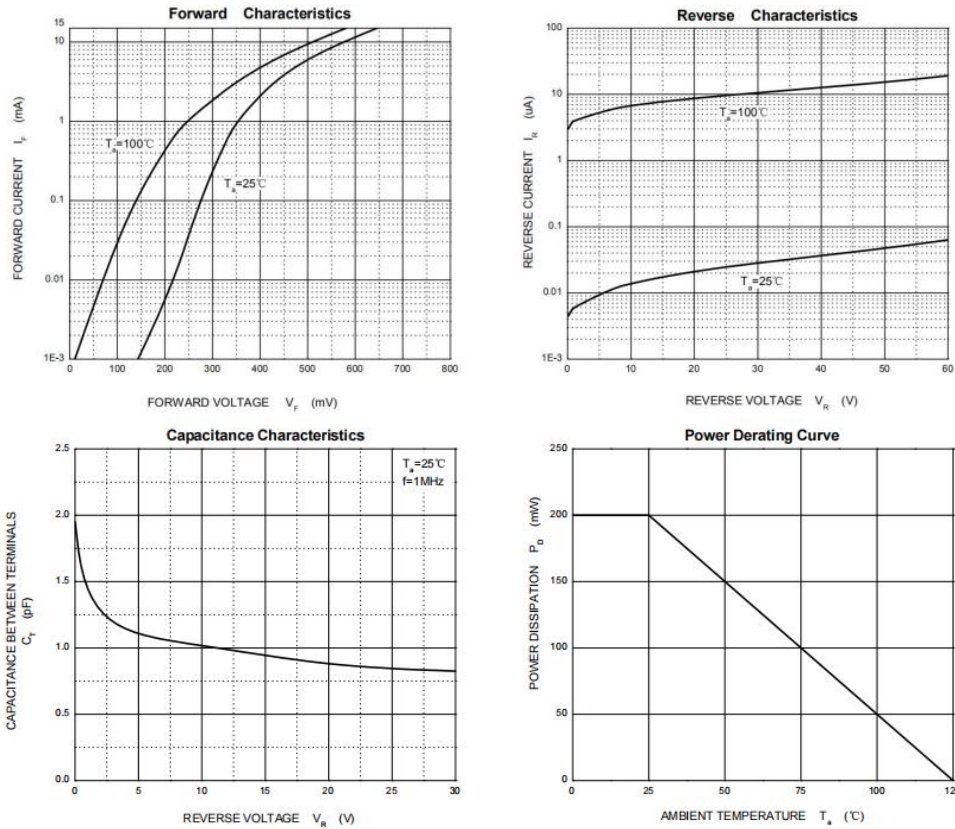
Characteristic 特性参数	Symbol 符号	SD101AWS	SD101BWS	SD101CWS	Unit 单位
Device Marking 产品印字		S1	S2	S3	
Peak Reverse Voltage 反向峰值电压	$V_{RRM}$	60	50	40	V
DC Reverse Voltage 直流反向电压	$V_R$	60	50	40	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	42	35	28	V
Forward Rectified Current 正向整流电流	$I_F$	15			mA
Peak Surge Current 峰值浪涌电流	$I_{FSM}$	2			A
Power Dissipation 耗散功率	$P_D$	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	$T_J$	125			$^{\circ}\text{C}$
Storage Temperature 储藏温度	$T_{stg}$	-50to+150			$^{\circ}\text{C}$

■ **Electrical Characteristics 电特性**

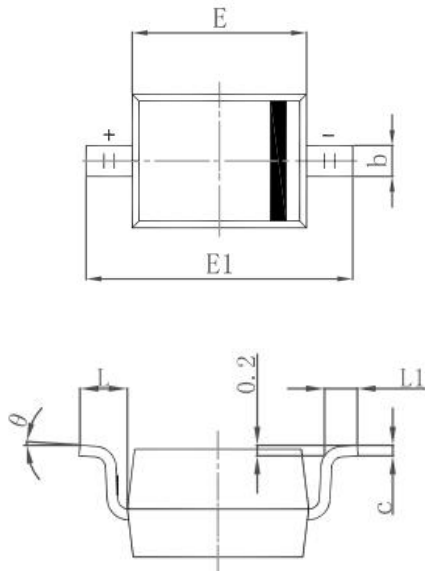
( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

Characteristic 特性参数	Symbol 符号	SD101AWS	SD101BWS	SD101CWS	Unit 单位	Condition 条件
Reverse Voltage 反向电压	$V_R$	60	50	40	V	$I_R=10\mu\text{A}$
Forward Voltage 正向电压	$V_F$	0.41 1	0.4 0.95	0.39 0.9	V	$I_F=1\text{mA}$ $I_F=15\text{mA}$
Reverse Current 反向电流	$I_R$	0.2			$\mu\text{A}$	$V_R=V_{RRM}$
Reverse Recovery Time 反向恢复时间	$T_{rr}$	1			nS	$I_F=I_R=5\text{mA}$ $I_{rr}=0.5\text{mA}$
Diode Capacitance 二极管电容	$C_T$	2			pF	$V_R=1\text{V}, f=1\text{MHz}$

■ Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸 SOD-323



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
$\theta$	0°	8°	0°	8°