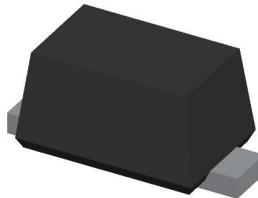


**SOD-923 ESD 静电保护二极管****■Features 特点**

Un-directional ESD Protection 单通道单向静电保护

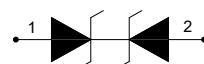
**■Applications 应用**

Notebooks, desktops, and servers 笔记本、台式机和服务器

Cellular handsets and accessories 蜂窝手机及附件

Personal Digital Assistants 个人数码助手

Peripherals 电脑外设

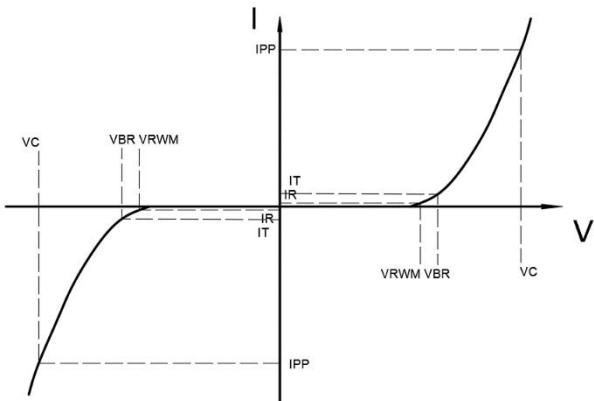
**■Internal Schematic Diagram 内部结构****■Device Marking 产品打标****■Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rate 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V <sub>ESD</sub>	±25	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V <sub>ESD</sub>	±25	KV
Peak Pulse Power @25°C峰值脉冲功率	P <sub>PK</sub>	80	W
Peak Pulse Current @25°C峰值脉冲电流	I <sub>PP</sub>	6	A
Lead Temperature 管脚温度	T <sub>L</sub>	260	°C
Lead Solder Time 管脚焊接时间	T <sub>L</sub>	10	S
Operating Temperature 工作温度	T <sub>op</sub>	-40~85	°C
Junction Temperature 结温	T <sub>J</sub>	-55~125	°C
Storage Temperature 储存温度	T <sub>stg</sub>	-55~150	°C

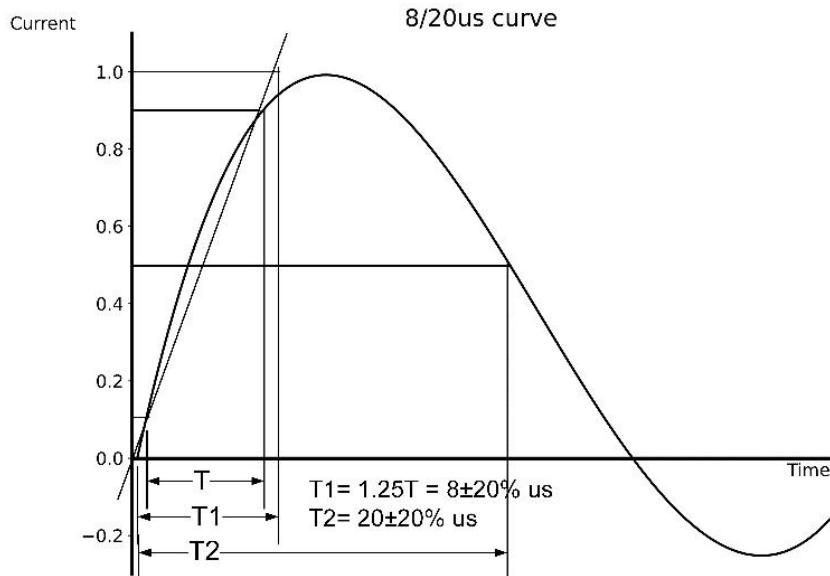
**■ Electrical Characteristics 电特性**(T<sub>A</sub>=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

Characteristic Parameters 特性参数	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位	Condition 条件
Reverse Stand-off Voltage 反向工作电压	V <sub>RWM</sub>			3.3	V	
Reverse Breakdown Voltage 反向击穿电压	V <sub>BR</sub>	3.7			V	I <sub>T</sub> =1mA
Reverse Leakage Current 反向漏电流	I <sub>R</sub>			1	μA	V <sub>RWM</sub> =3.3V
Clamping Voltage 钳位电压	V <sub>C</sub>		7		V	I <sub>PP</sub> =1A,tp=8/20μs
Clamping Voltage 钳位电压	V <sub>C</sub>		10		V	I <sub>PP</sub> =6A,tp=8/20μs
Diode Capacitance 二极管电容	C <sub>D</sub>		15		pF	V <sub>R</sub> =0V,f=1MHz

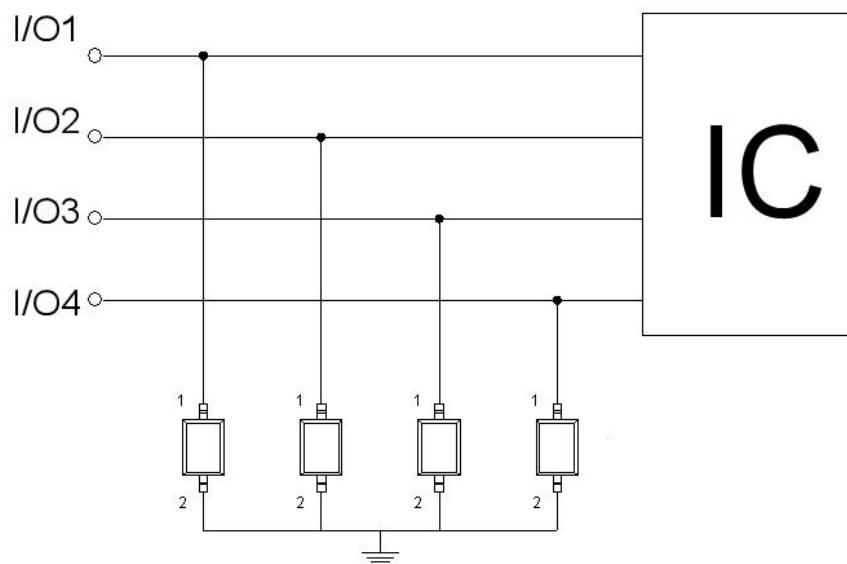
V <sub>RWM</sub>	Reverse Working Voltage 反向工作电压
V <sub>R(BR)</sub>	Reverse Breakdown Voltage 反向击穿电压@I <sub>T</sub> =1mA
I <sub>T</sub>	Test Current 测试电流
I <sub>R</sub>	Reverse Leakage Current 反向漏电流@V <sub>RWM</sub>
V <sub>C</sub>	Clamping Voltage 钳位电压
I <sub>PP</sub>	Reverse Peak Pulse Current 浪涌电流
C <sub>D</sub>	Diode Capacitance 结电容 V <sub>IO</sub> =0V, f = 1MHz



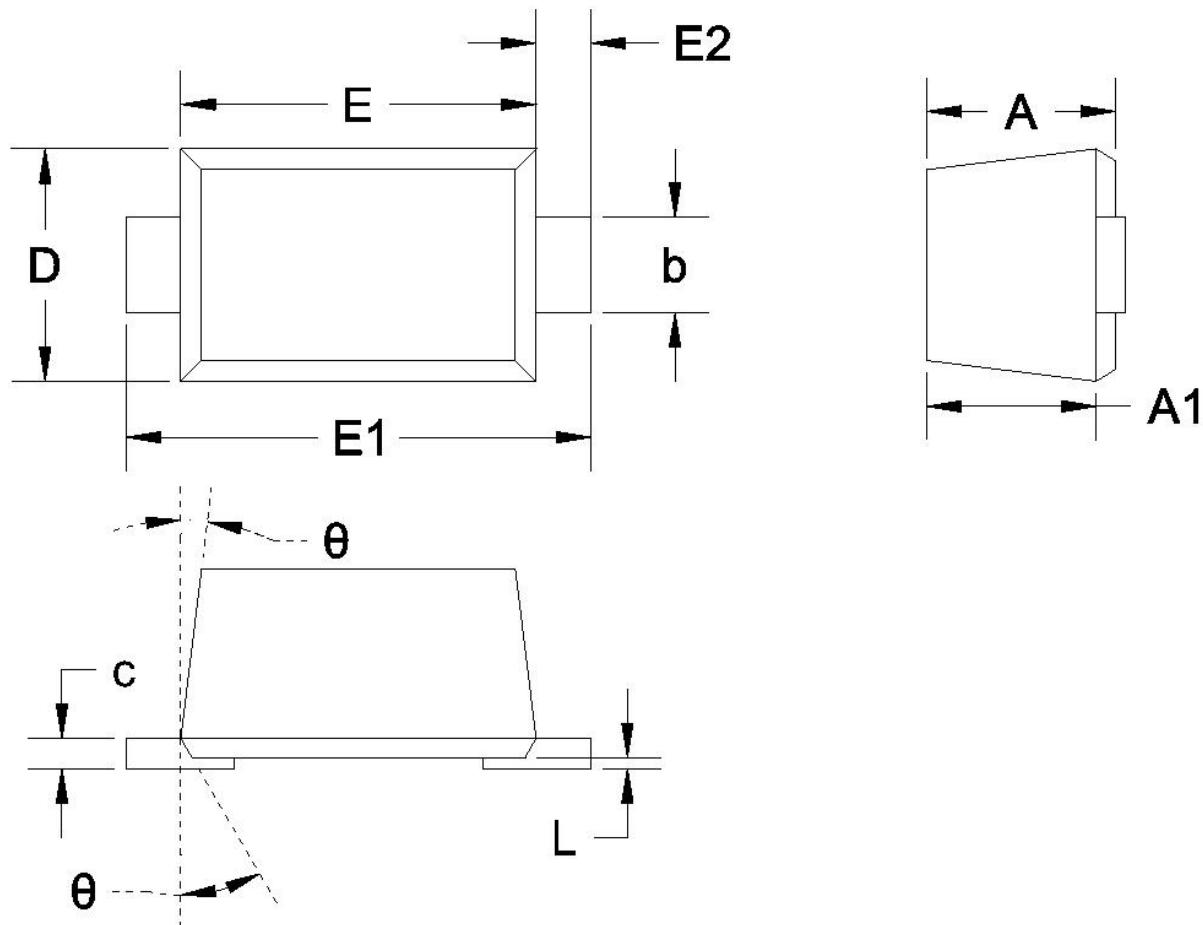
### ■Typical Characteristic Curve 典型特性曲线



### ■Typical Application 典型应用



■ Dimension 外形封装尺寸



Unit	A	A1	b	c	D	E	E1	E2	L	$\theta$
Max.	0.38	0.28	0.27	0.15	0.65	0.85	1.10	0.15	0.05	7°
Min.	0.30	0.20	0.17	0.08	0.55	0.75	0.90	REF.	0.01	REF.

Units: Millimeters