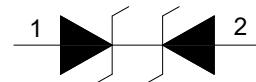


SOD-523 ESD 静电保护二极管**■Features 特点**

Bi-directional 双向
ESD Protection 静电保护

**■Applications 应用**

USB 2.0 and USB 3.0 USB 接口
HDMI 1.3 and HDMI 1.4 高清多媒体
Notebooks & Handhelds 笔记本或手持机
PCI Express 高速数据传输总线
Peripherals 外部设备

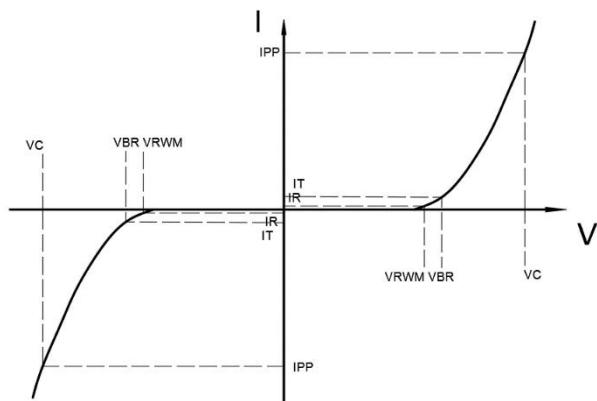
**■Device Marking 产品打标****■Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V _{ESD}	±25	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±25	KV
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	90	W
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	5	A
Lead Temperature 管脚温度	T _L	260	°C
Lead Solder Time 管脚焊接时间	T _L	10	S
Operating Temperature 工作温度	T _{op}	-40~125	°C
Junction Temperature 结温	T _J	-55~150	°C
Storage Temperature 储存温度	T _{stg}	-55~150	°C

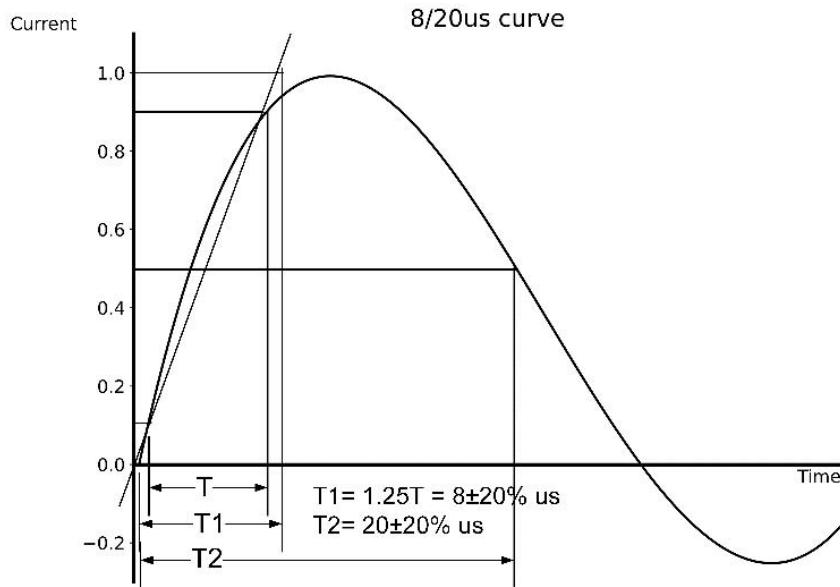
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

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 _{RWM}			5	V	
Reverse Breakdown Voltage 反向击穿电压	V _{BR}	6			V	I _T =1mA
Reverse Leakage Current 反向漏电流	I _R			1	μA	V _{RWM} =5V
Clamping Voltage 钳位电压	V _C		10		V	I _{PP} =1A, t _p =8/20μs
Clamping Voltage 钳位电压	V _C		15		V	I _{PP} =5A, t _p =8/20μs
Diode Capacitance 二极管电容	C _D		3.5		pF	V _R =0V, f=1MHz

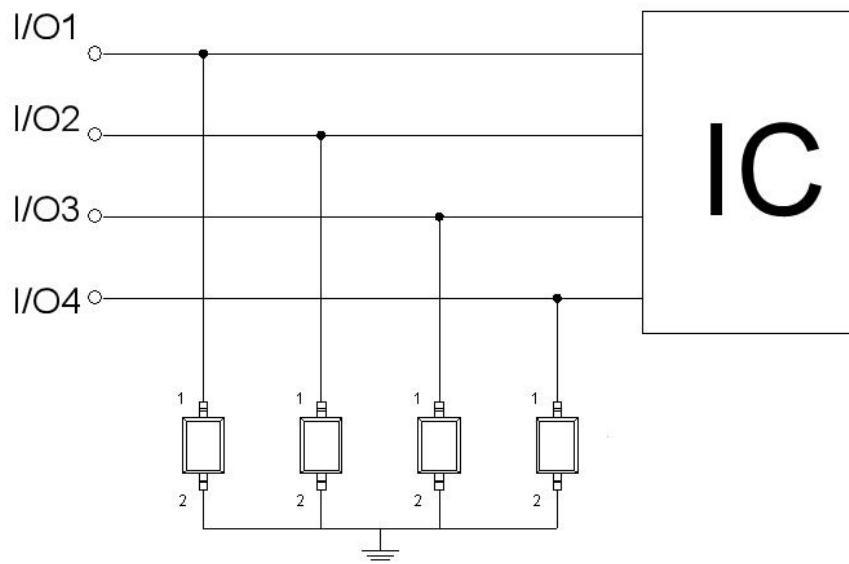
V _{RWM}	Reverse Working Voltage 反向工作电压
V _{R(BR)}	Reverse Breakdown Voltage 反向击穿电压@I _T =1mA
I _T	Test Current 测试电流
I _R	Reverse Leakage Current 反向漏电流@V _{RWM}
V _C	Clamping Voltage 钳位电压
I _{PP}	Reverse Peak Pulse Current 浪涌电流
C _D	Diode Capacitance 二极管电容 V _{IO} =0V, V _{P-P} = 30mV, f = 1MHz



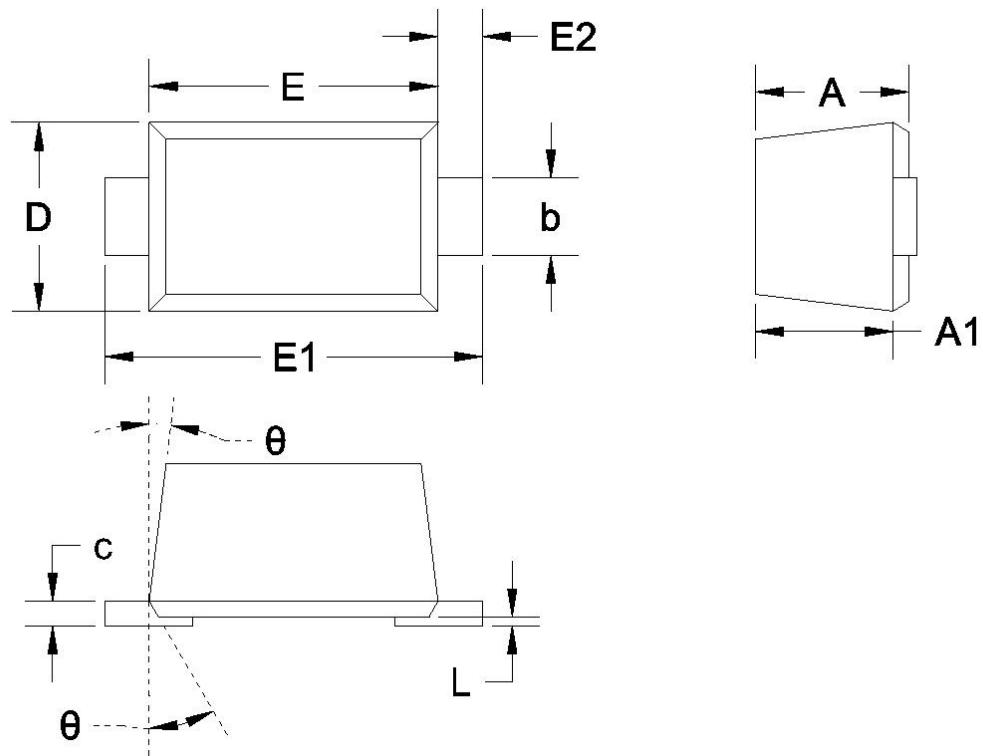
■Typical Characteristic Curve 典型特性曲线



■Typical Application 典型应用



■ Dimension 外形封装尺寸



Unit mm	A	A1	b	c	D	E	E1	E2	L	θ
Max.	0.77	0.70	0.35	0.15	0.85	1.30	1.70	0.20	0.07	7°
Min.	0.51	0.50	0.25	0.08	0.75	1.10	1.50	REF.	0.01	REF.