

SOD-323 ESD 静电保护二极管

■Features 特点

Bidirectional 双向

ESD Protection 静电保护



■Applications 应用

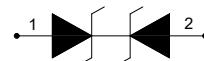
Set-top box 机顶盒

Communications systems 通信系统

Portable electronics 便携式电子产品

Control & monitoring systems 控制与监视系统

Servers, notebooks, and desktop PCs bus protection 服务器、笔记本及台式机总线保护



■Device Marking 产品打标



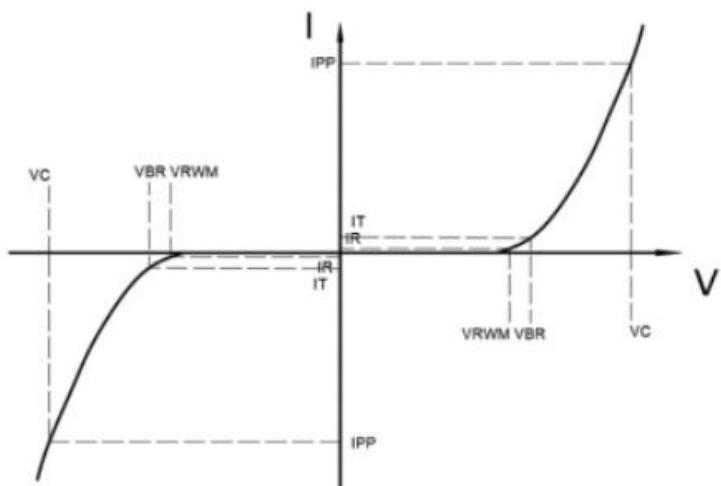
■Absolute Maximum Ratings 最大额定值

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}	±30	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±30	KV
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	250	W
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	20	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}	-40~85	°C
Junction Temperature 结温	T _J	-55~125	°C
Storage Temperature 储存温度	T _{stg}	-55~150	°C

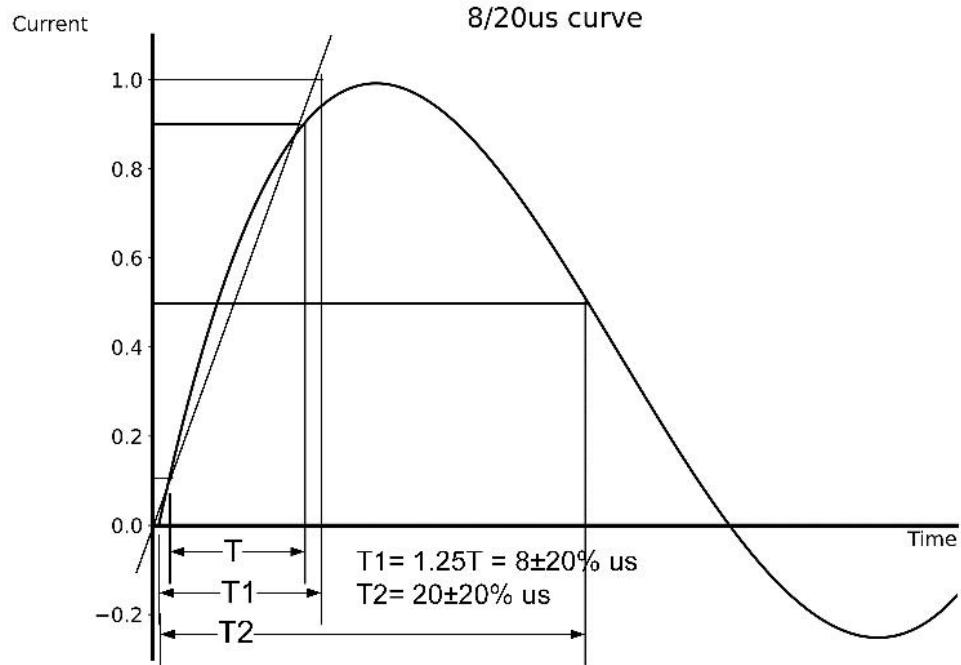
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

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}			3.3	V	
Reverse Breakdown Voltage 反向击穿电压	V _{BR}	3.5			V	I _T =1mA
Reverse Leakage Current 反向漏电流	I _R			1	μA	V _{RWM} =3.3V
Clamping Voltage 钳位电压	V _C		8		V	I _{PP} =1A, t _p =8/20μs
Clamping Voltage 钳位电压	V _C		15		V	I _{PP} =20A, t _p =8/20μs
Diode Capacitance 二极管电容	C _D		60		pF	V _R =0V, f=1MHz

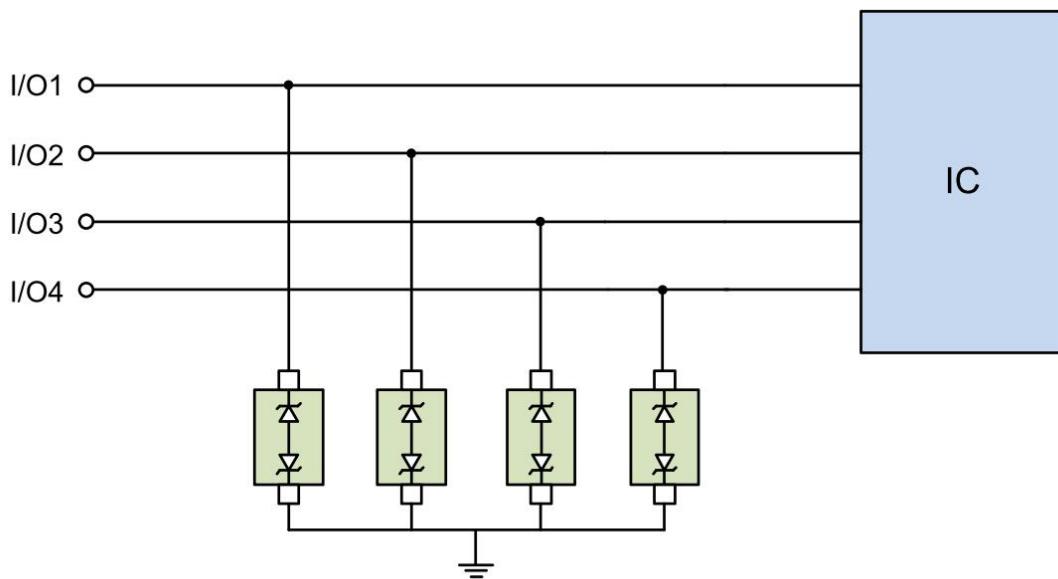
V _{RWM}	Reverse Working Voltage 反向工作电压
V _{R(BR)}	Reverse Breakdown Voltage 反向击穿电压@I _T =1mA
I _T	Test Current 测试电流
I _R	Reverse Leakage Current 反向漏电流@V _{RWM}
V _C	Clamping Voltage 钳位电压
I _{PP}	Reverse Peak Pulse Current 浪涌电流
C _J	Junction Capacitance 结电容 V _{IO} =0V, V _{P.P.} = 30mV, f = 1MHz



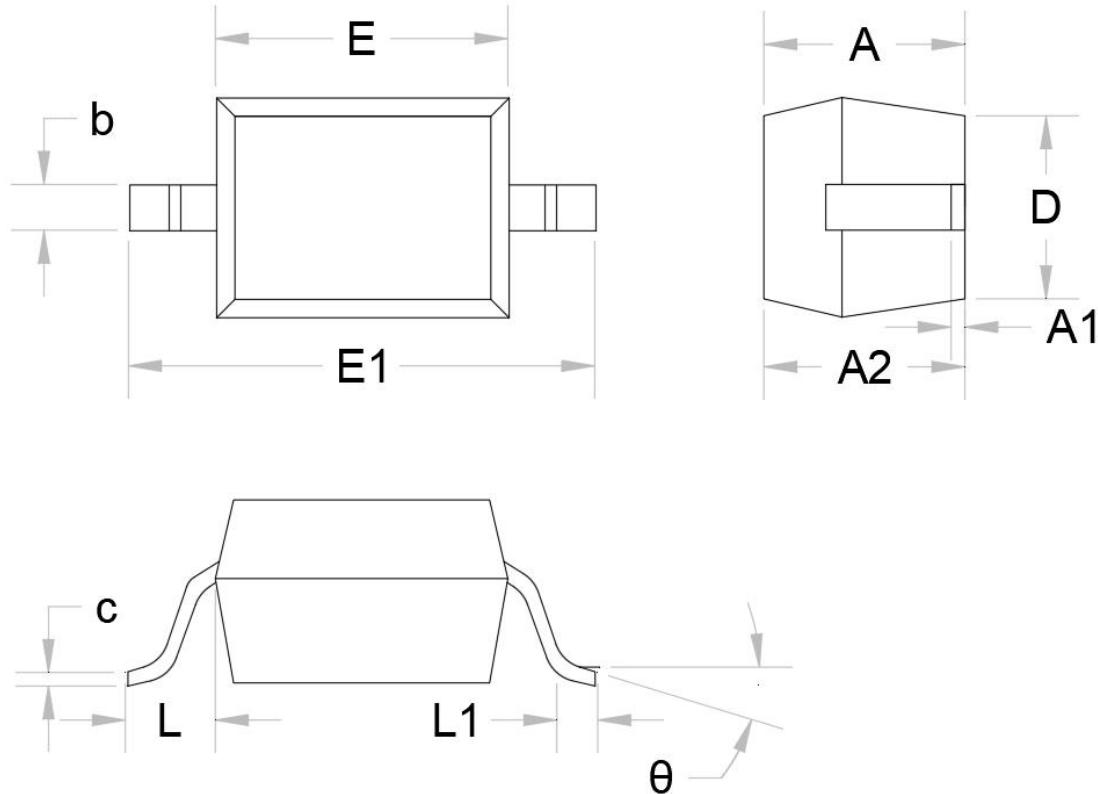
■Typical Characteristic Curve 典型特性曲线



■Typical Application 典型应用



■ Dimension 外形封装尺寸



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
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	2.550	2.750	0.100	0.108
L	0.475REF		0.019REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°