

SOD-323 ESD 静电保护二极管

■Features 特点

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

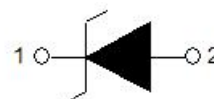
■Applications 应用

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

Control & monitoring systems 控制与监视系统

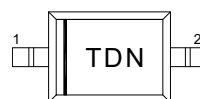
Portable Electronics 桌面电子产品

Communication system 通讯系统



■Internal Schematic Diagram 内部结构

■Device Marking 产品打标



■Absolute Maximum Ratings 最大额定值

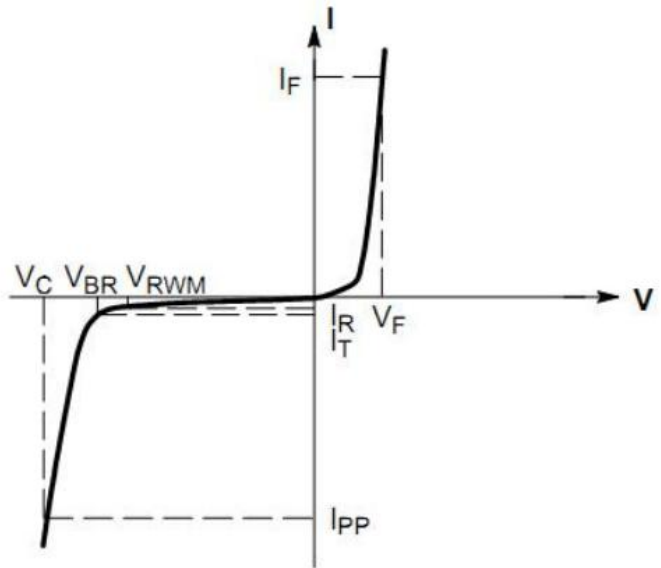
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V_{ESD}	± 30	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V_{ESD}	± 30	KV
Peak Pulse Power @25°C峰值脉冲功率	P_{PK}	2000	W
Peak Pulse Current @25°C峰值脉冲电流	I_{PP}	80	A
Lead Temperature 管脚温度	T_L	260	°C
Lead Solder Time 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

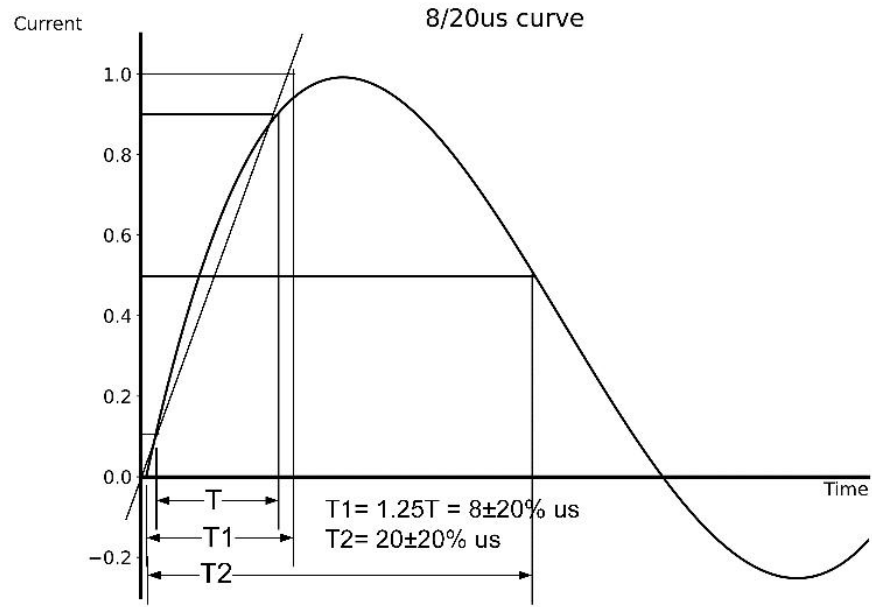
 (T_A=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

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}			15	V	
Reverse Breakdown Voltage 反向击穿电压	V _{BR}	16.5			V	I _T =1mA
Reverse Leakage Current 反向漏电流	I _R			1	μA	V _{RWM} =15V
Clamping Voltage 钳位电压	V _C		20		V	I _{PP} =1A, tp=8/20μs
Clamping Voltage 钳位电压	V _C		35		V	I _{PP} =80A, tp=8/20μs
Diode Capacitance 二极管电容	C _D		400		pF	V _R =0V, f=1MHz

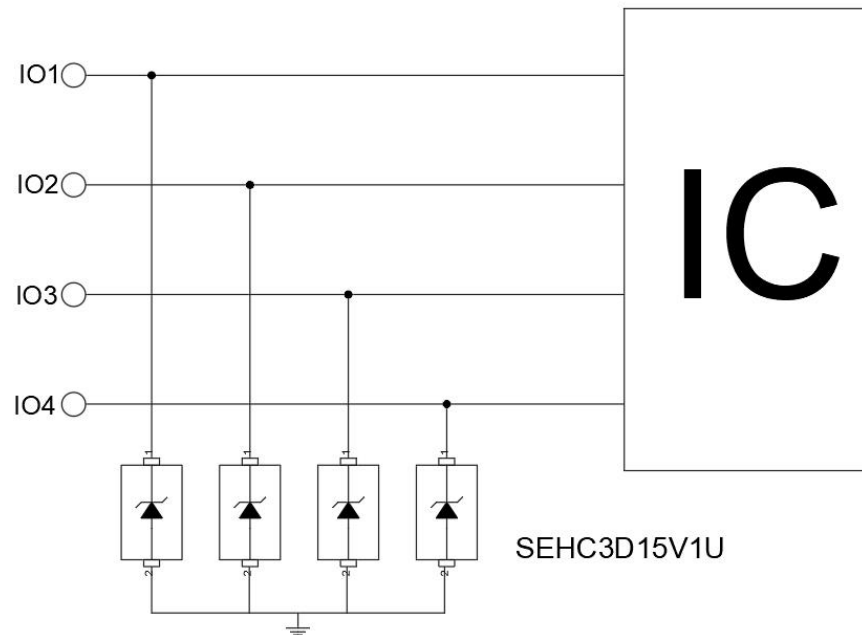
V _{RWM}	Reverse Working Voltage 反向工作电压
V _{R(BR)}	Reverse Breakdown Voltage 反向击穿电压@I _T =1mA
I _T	Test Current 测试电流
I _R	Reverse Leakage Current 反向漏电流@V _{RWM}
V _C	Clamping Voltage 钳位电压
I _{PP}	Reverse Peak Pulse Current 浪涌电流
C _D	Diode Capacitance 结电容 V _{IO} =0V, f = 1MHz



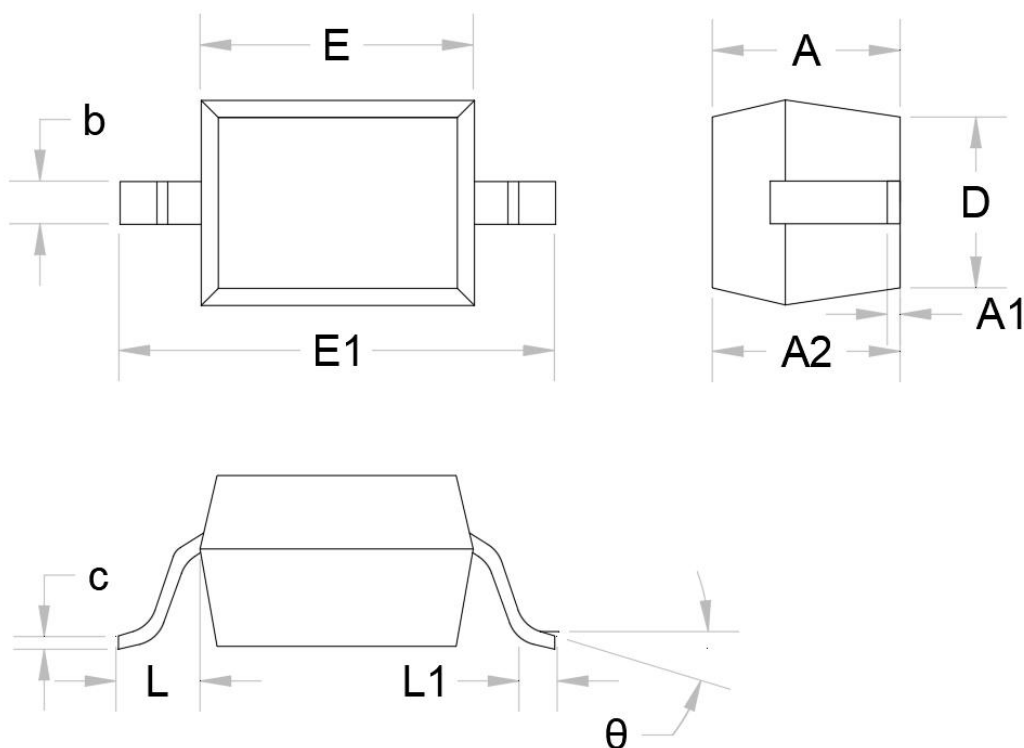
■ Typical Characteristic Curve 典型特性曲线



■ Typical Application 典型应用



■ **Dimension** 外形封装尺寸



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°