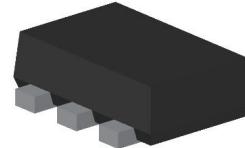


## SOT-563 ESD 静电保护二极管

### ■Features 特点

Un-directional ESD Protection 单向静电保护

Low capacitance 低电容



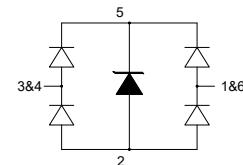
### ■Applications 应用

Notebooks Computer 笔记本电脑

SIM Ports and Ethernet 用户识别和以太网

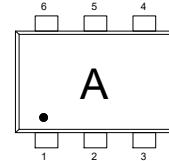
USB&ATM Interface 移动 U 盘及自动柜员机接口

Monitors and flat panel display 监视器和平板显示器



### ■Internal Schematic Diagram 内部结构

### ■Device Marking 产品打标



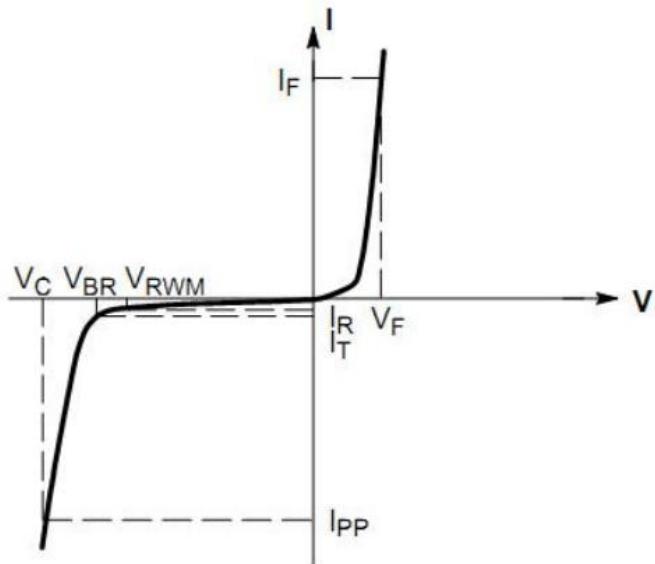
### ■Absolute Maximum Ratings 最大额定值

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 <sub>ESD</sub>	±12	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V <sub>ESD</sub>	±17	KV
Peak Pulse Power @25°C峰值脉冲功率	P <sub>PK</sub>	60	W
Peak Pulse Current @25°C峰值脉冲电流	I <sub>PP</sub>	4.5	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

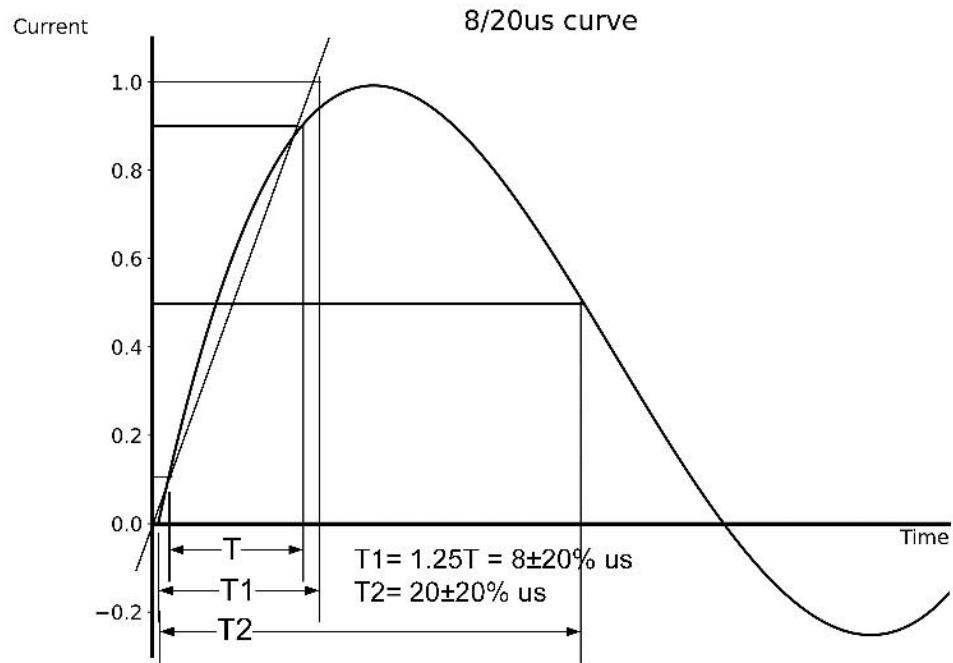
**■ Electrical Characteristics 电特性**(T<sub>A</sub>=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

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>			5	V	
Reverse Breakdown Voltage 反向击穿电压	V <sub>BR</sub>	6			V	I <sub>T</sub> =1mA
Reverse Leakage Current 反向漏电流	I <sub>R</sub>			1	μA	V <sub>RWM</sub> =5V
Clamping Voltage 钳位电压	V <sub>C</sub>		8.5		V	I <sub>PP</sub> =1A, tp=8/20μs
Clamping Voltage 钳位电压	V <sub>C</sub>		12		V	I <sub>PP</sub> =4.5A, tp=8/20μs
Diode Capacitance 二极管电容	C <sub>D</sub>	I/O to GND Between I/O	0.6 0.3		pF	V <sub>R</sub> =0V, f=1MHz

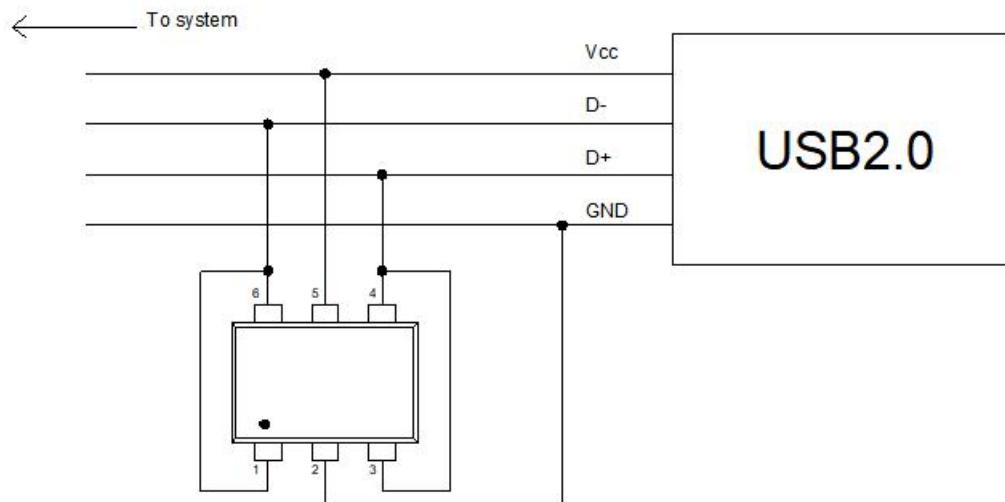
V <sub>RWM</sub>	Reverse Working Voltage 反向工作电压
V <sub>R(BR)</sub>	Reverse Breakdown Voltage 反向击穿电压@I <sub>T</sub> =1mA
I <sub>T</sub>	Test Current 测试电流
I <sub>R</sub>	Reverse Leakage Current 反向漏电流@V <sub>RWM</sub>
V <sub>C</sub>	Clamping Voltage 钳位电压
I <sub>PP</sub>	Reverse Peak Pulse Current 浪涌电流
C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



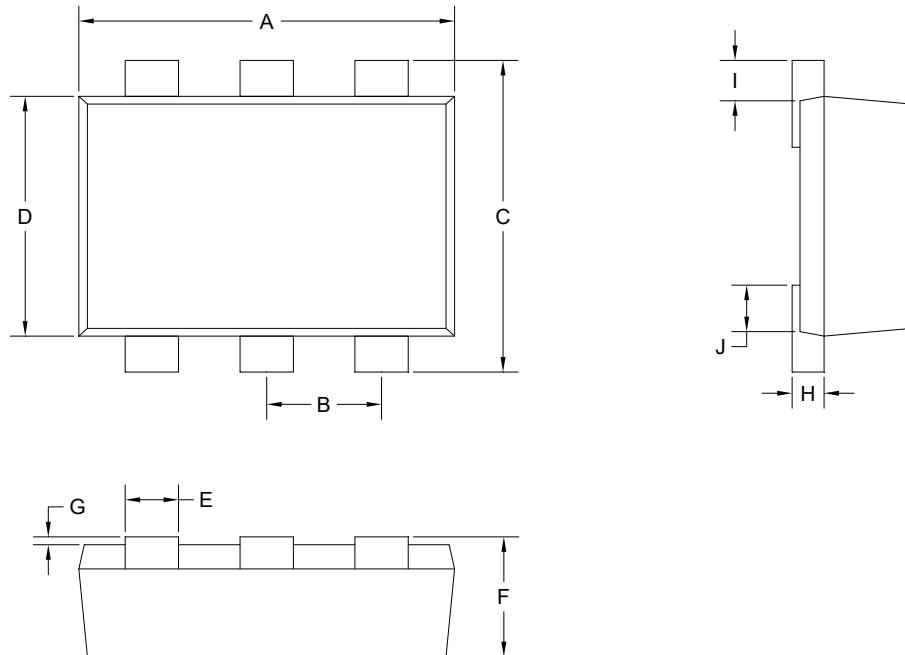
### ■Typical Characteristic Curve 典型特性曲线



### ■Typical Application 典型应用



■ Dimension 外形封装尺寸



Units in millimeters

symbol	A	B	C	D	E	F	G	H	I	J
Min.	1.50	0.50	1.55	1.10	0.15	0.50	0.00	0.10	0.10	0.15
Max.	1.70	0.60	1.70	1.25	0.30	0.60	0.05	0.18	0.30	0.20