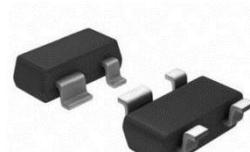


SOT-143 ESD 静电保护二极管

■Features 特点

Un-directional ESD Protection 单向静电保护

Low capacitance 低电容



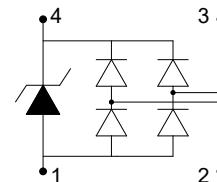
■Applications 应用

Mobile and cordless phones 移动和子母电话

DVI and HDMI interfaces 数字视频和高清多媒体接口

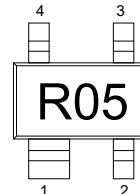
Personal Digital Assistants 个人数码助手

Notebooks, Printers and PCs 笔记本、打印机和电脑



■Internal Schematic Diagram 内部结构

■Device Marking 产品打标



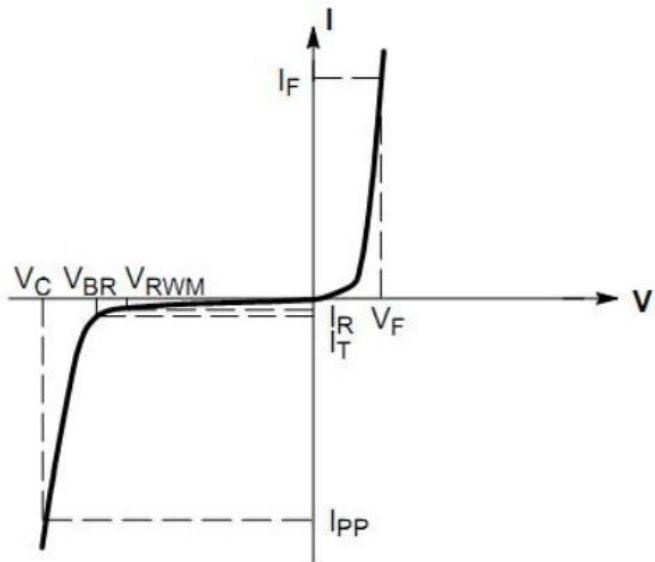
■Absolute Maximum Ratings 最大额定值

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}	±15	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±15	KV
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	75	W
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	6	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

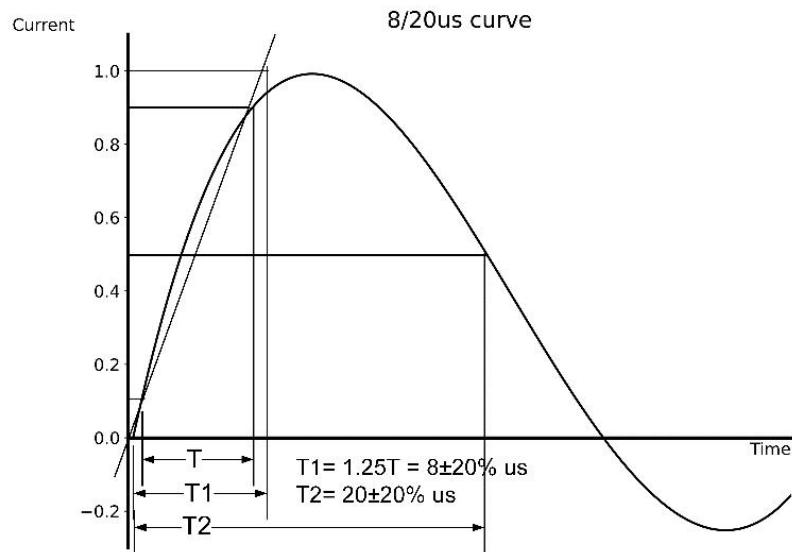
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

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}			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, tp=8/20μs
Clamping Voltage 钳位电压	V _C		15		V	I _{PP} =6A, tp=8/20μs
Diode Capacitance 二极管电容	C _D	I/O to GND Between I/O	1.2 0.6		pF	V _R =0V, f=1MHz

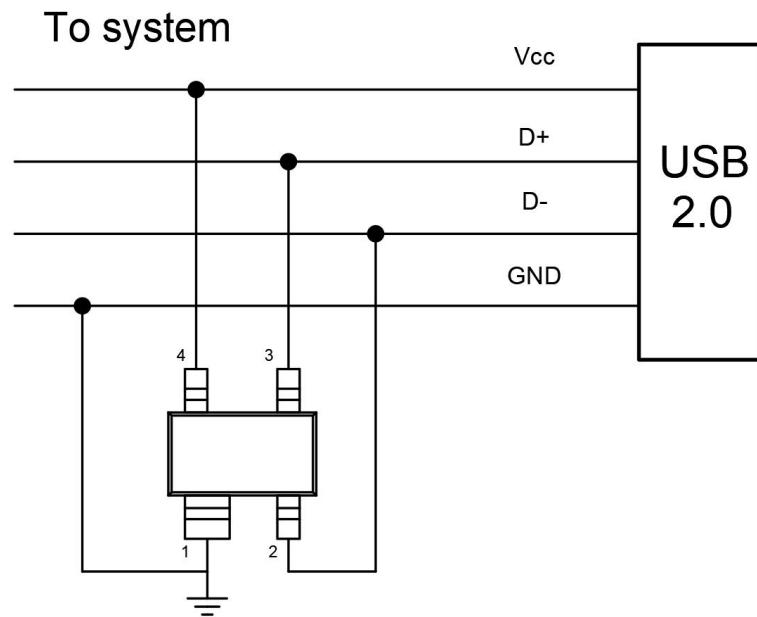
V _{RWM}	Reverse Working Voltage 反向工作电压
V _{R(BR)}	Reverse Breakdown Voltage 反向击穿电压@I _T =1mA
I _T	Test Current 测试电流
I _R	Reverse Leakage Current 反向漏电流@V _{RWM}
V _C	Clamping Voltage 钳位电压
I _{PP}	Reverse Peak Pulse Current 浪涌电流
C _D	Diode Capacitance 二极管电容 V _{IO} =0V, V _{P-P} = 30mV, f = 1MHz



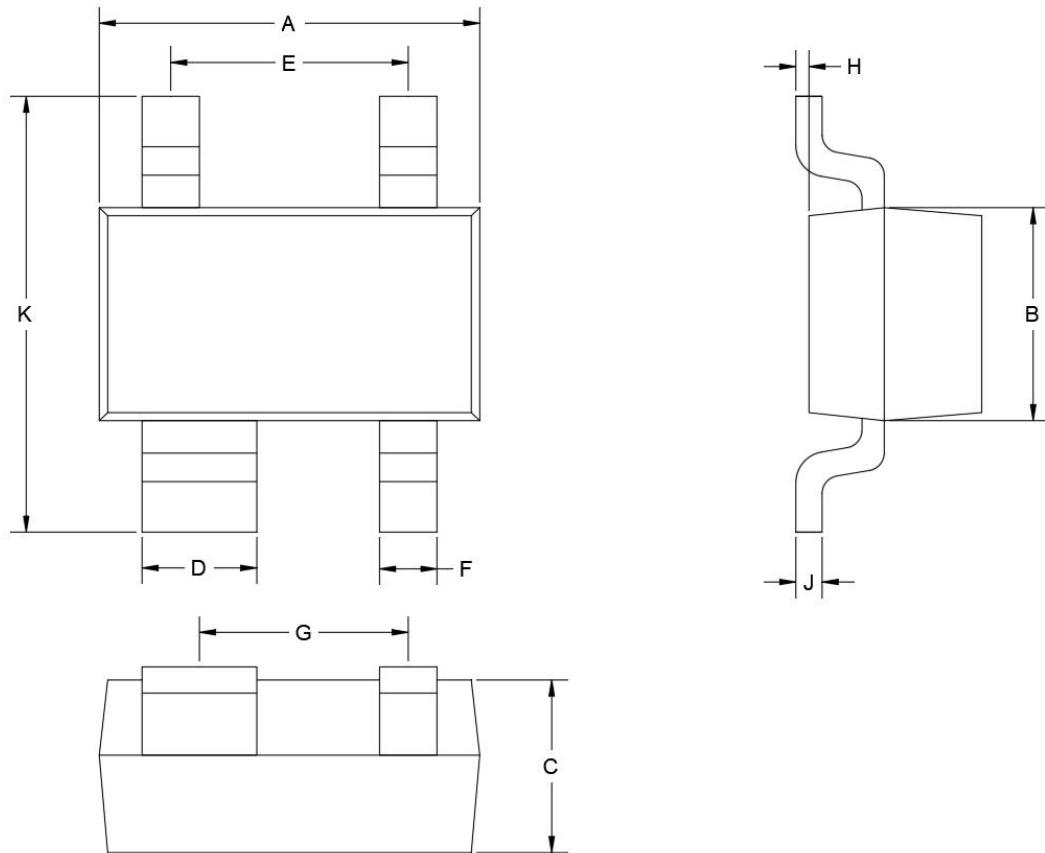
■Typical Characteristic Curve 典型特性曲线



■Typical Application 典型应用



■ Dimension 外形封装尺寸



Symbol	A	B	C	D	E	F	G	H	J	K
Min	2.70	1.10	0.90	0.78	1.80	0.37	1.59	0.02	0.05	2.20
Max	3.10	1.50	1.10	0.88	2.00	0.43	1.79	0.10	0.15	2.60

dimensions in millimeter