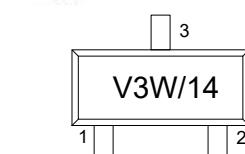
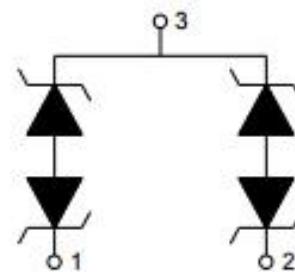
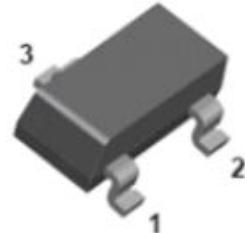


SOT-23 ESD 静电保护二极管**■Features 特点**

Two Bidirectional Lines 两个双向
ESD Protection 静电保护

■Applications 应用

Portable electronics 便携式电子产品
Control & monitoring systems 控制与监视系统
Cellular handsets and accessories 蜂窝手机及附件
Servers, notebooks, and desktop PCs bus protection
服务器、笔记本及台式机总线保护

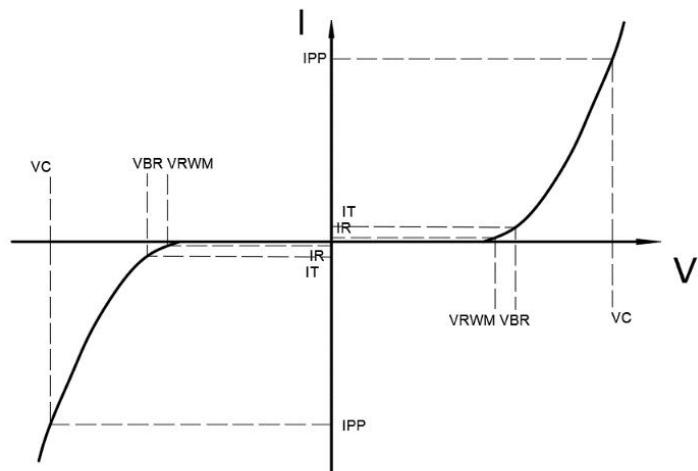
**■Internal Schematic Diagram 内部结构****■Device Marking 产品打标****■Absolute Maximum Ratings 最大额定值**

| Characteristic 特性参数 | Symbol 符号 | Rating 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} | 8 | 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 |

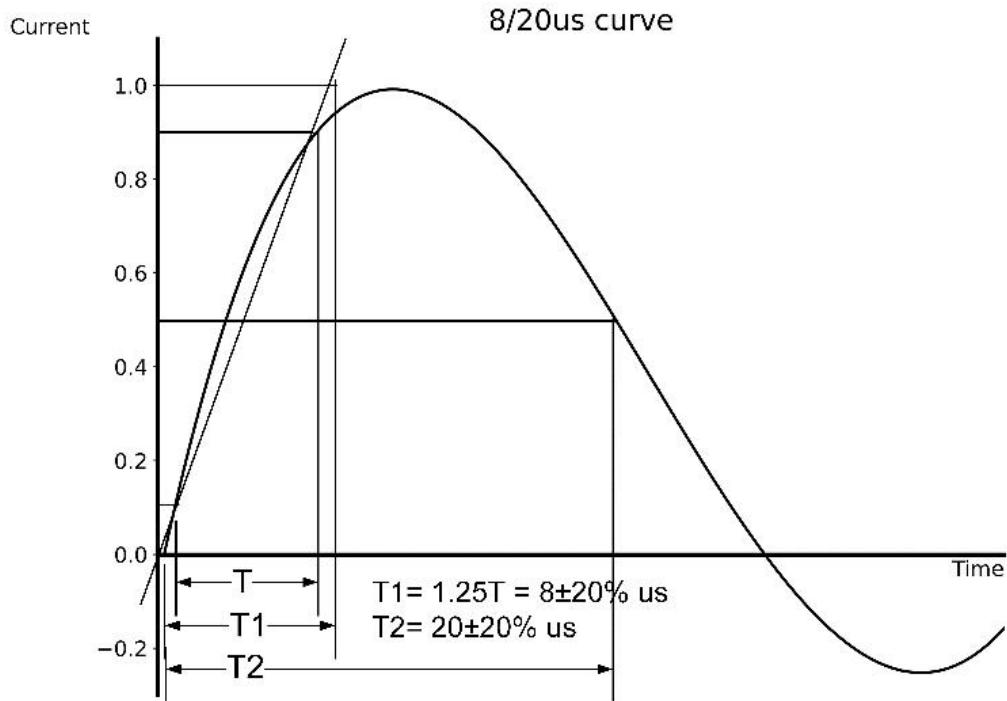
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

| 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} | 5.5 | | | 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 | | 6.5 | | V | I _{PP} =1A, tp=8/20μs |
| Clamping Voltage 钳位电压 | V _C | | 9 | | V | I _{PP} =8A, tp=8/20μs |
| Diode Capacitance 二极管电容 | C _D | | 12 | | pF | V _R =0V, f=1MHz |

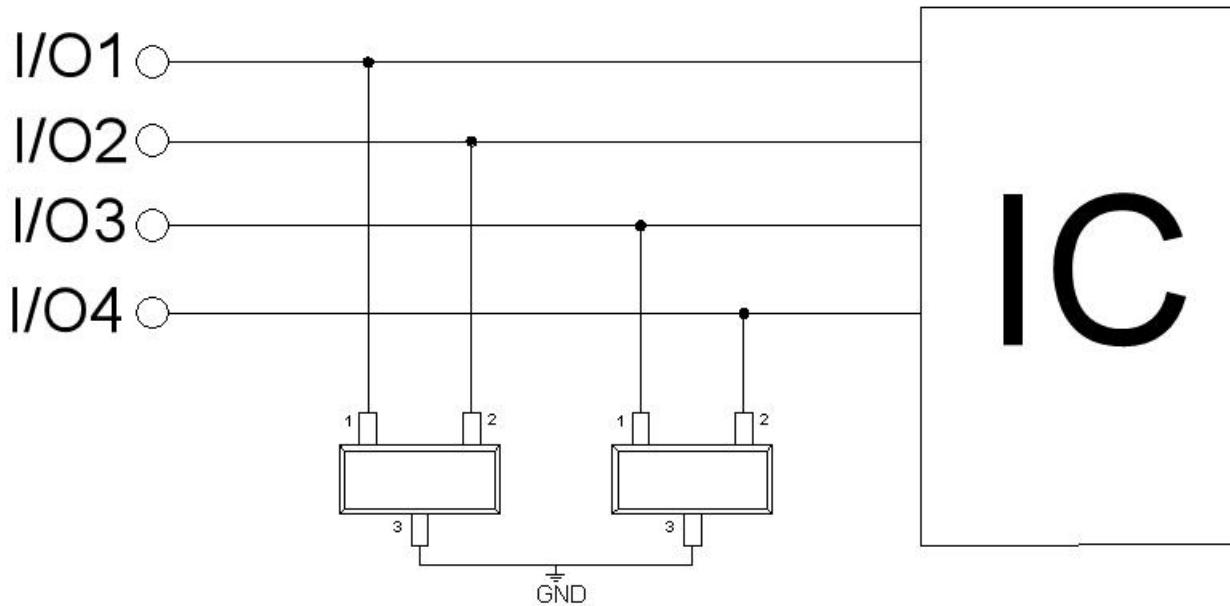
| | |
|--------------------|---|
| V _{RWM} | Reverse Working Voltage 反向工作电压 |
| V _{R(BR)} | Reverse Breakdown Voltage 反向击穿电压@I _T =1mA |
| I _T | Test Current 测试电流 |
| I _R | Reverse Leakage Current 反向漏电流@V _{RWM} |
| V _C | Clamping Voltage 钳位电压 |
| I _{PP} | Reverse Peak Pulse Current 浪涌电流 |
| C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



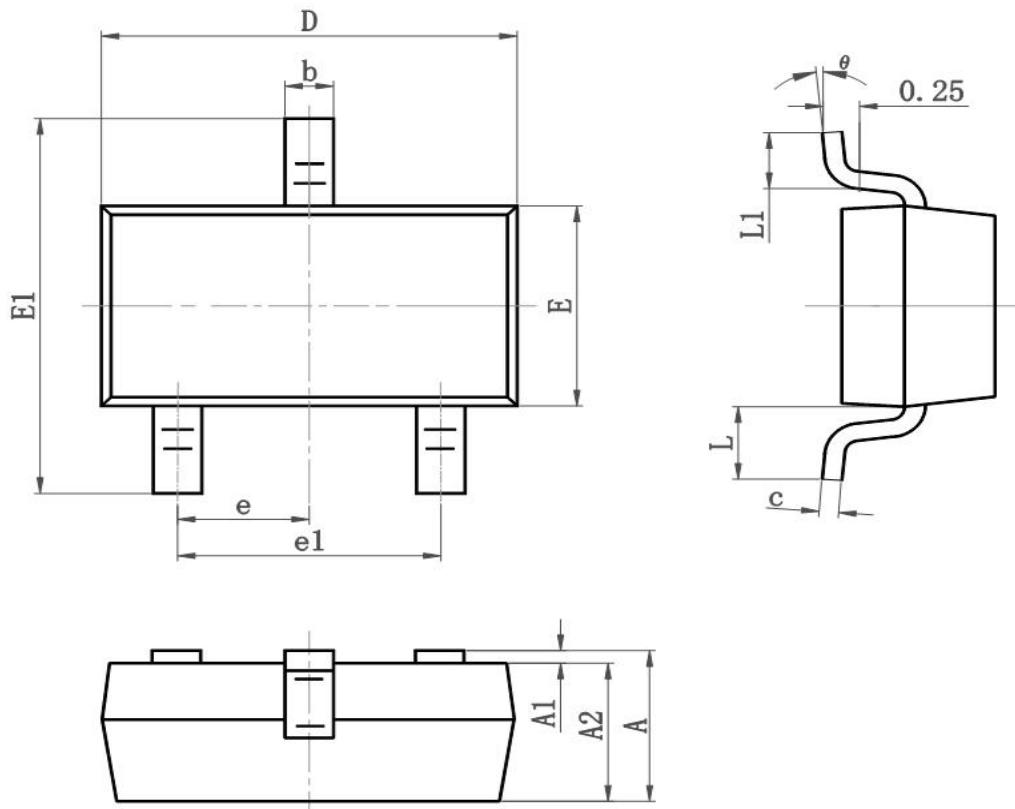
■Typical Characteristic Curve 典型特性曲线



■Typical Application 典型应用



■ Dimension 外形封装尺寸



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|----------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 1.200 | 1.400 | 0.050 | 0.055 |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 |
| e | 0.900 | 1.00 | 0.035 | 0.039 |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.500 | 0.600 | 0.020 | 0.024 |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |
| θ | 0° | 8° | 0° | 8° |