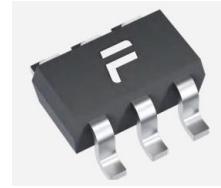


SOT-363 ESD 静电保护二极管

■Features 特点

Un-directional ESD Protection 单向静电保护



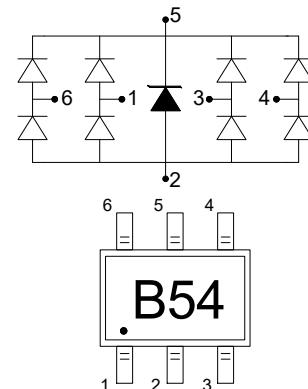
■Applications 应用

Cellular handsets and accessories 蜂窝手机及附件

Personal Digital Assistants 个人数码助手

Notebooks & Handhelds 笔记本与手持机

Portable Instrumentation 桌面仪器



■Internal Schematic Diagram 内部结构

■Device Marking 产品打标

■Absolute Maximum Ratings 最大额定值

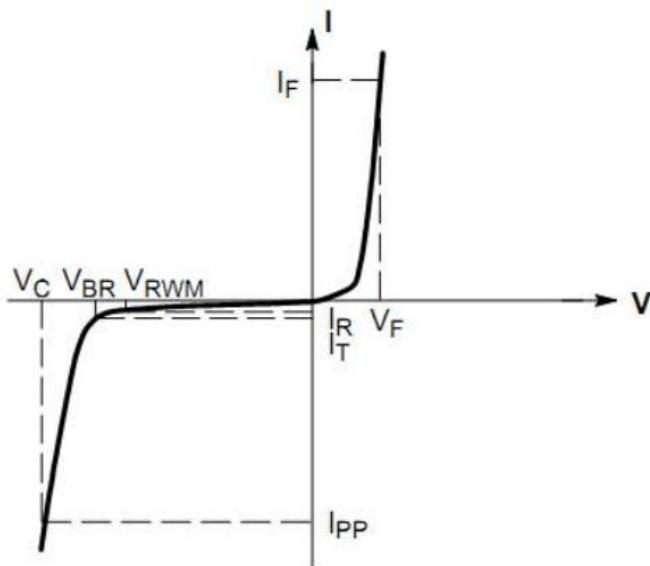
Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V _{ESD}	±12	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±17	KV
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	60	W
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	4	A
Lead Temperature 管脚温度	T _L	260	°C
Lead Solder 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

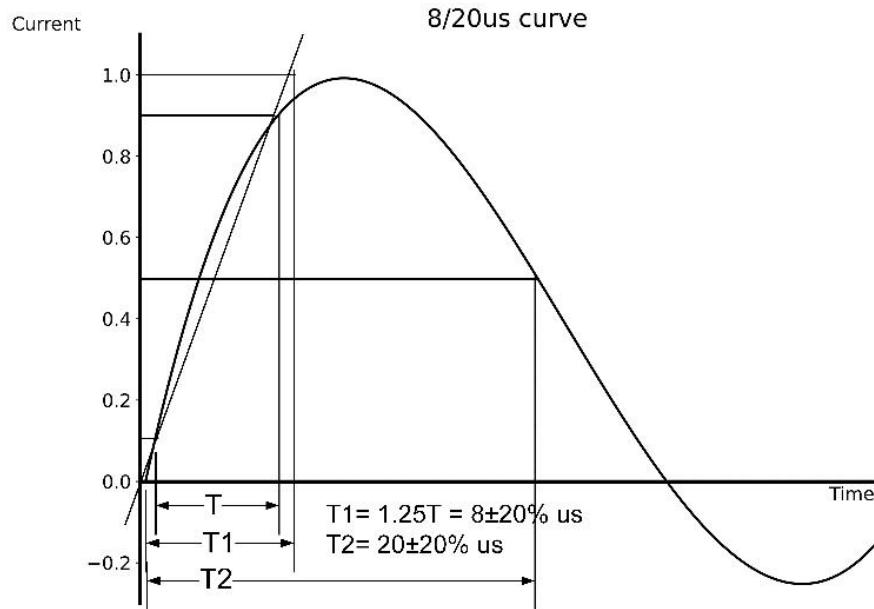
($T_A=25^\circ\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

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	$I_T=1\text{mA}$
Reverse Leakage Current 反向漏电流	I_R			1	μA	$V_{RWM}=5\text{V}$
Clamping Voltage 钳位电压	V_C		8.5		V	$I_{PP}=1\text{A},$ $tp=8/20\mu\text{s}$
Clamping Voltage 钳位电压	V_C		15		V	$I_{PP}=8\text{A},$ $tp=8/20\mu\text{s}$
Diode Capacitance 二极管电容	C_D	I/O to GND Between I/O	0.8 0.4		pF	$V_R=0\text{V},$ $f=1\text{MHz}$

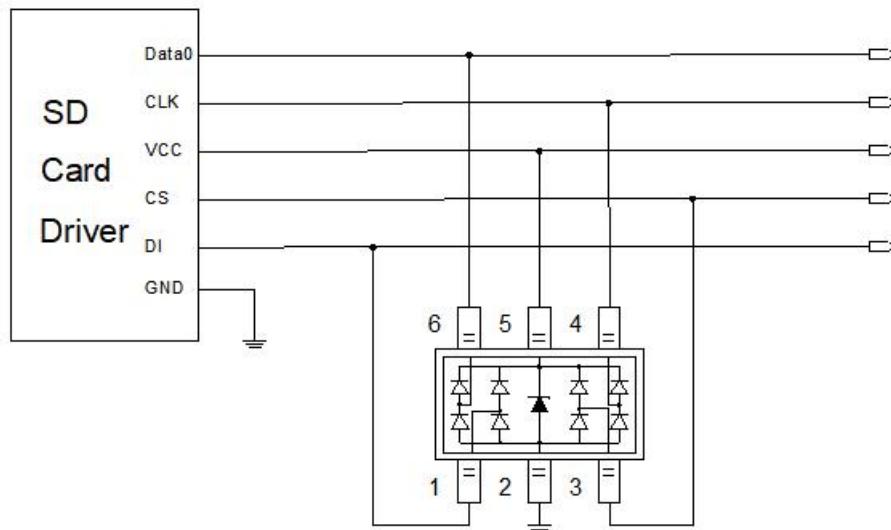
V_{RWM}	Reverse Working Voltage 反向工作电压
$V_{R(BR)}$	Reverse Breakdown Voltage 反向击穿电压@ $I_T=1\text{mA}$
I_T	Test Current 测试电流
I_R	Reverse Leakage Current 反向漏电流@ V_{RWM}
V_C	Clamping Voltage 钳位电压
I_{PP}	Reverse Peak Pulse Current 浪涌电流
C_D	Diode Capacitance 二极管电容 $V_{IO}=0\text{V}, V_{P-P} = 30\text{mV}, f = 1\text{MHz}$



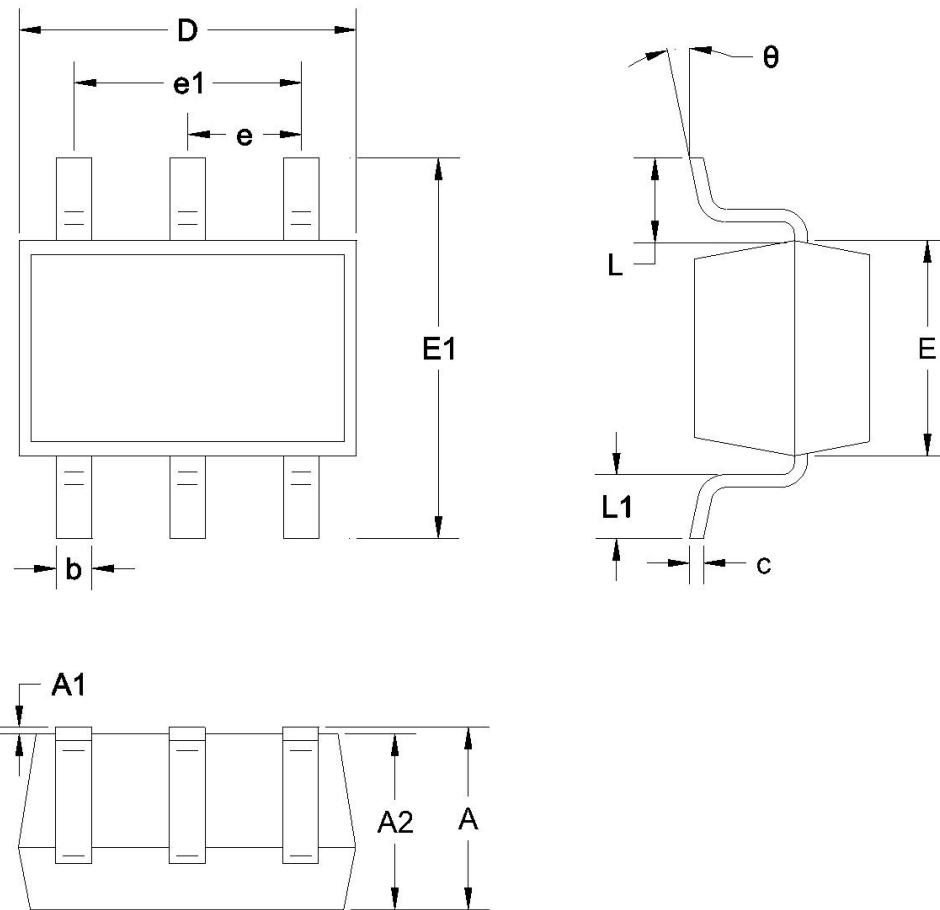
■Typical Characteristic Curve 典型特性曲线



■Typical Application 典型应用



■ Dimension 外形封装尺寸



Symbol		A	A1	A2	b	c	D	θ
Spec	Min	0.900	0.000	0.900	0.150	0.080	2.000	0°
	Max	1.100	0.100	1.000	0.350	0.150	2.200	8°
Symbol		E	E1	e	e1	L	L1	-
Spec	Min	1.150	2.150	0.650 REF	1.200	0.525 REF	0.2600	-
	Max	1.350	2.450		1.400		0.4600	-

dimensions in millimeter