DFN0603-2L ESD 静电保护二极管

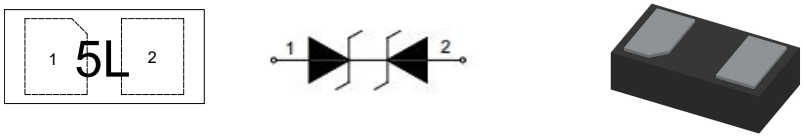
■Features 特点

IEC 61000-4-2 Level 4 ESD Protection 静电保护
- ±10kV Contact Discharge 接触放电
- ±15kV Air Discharge 空气放电

■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



■Absolute Maximum Ratings 最大额定值

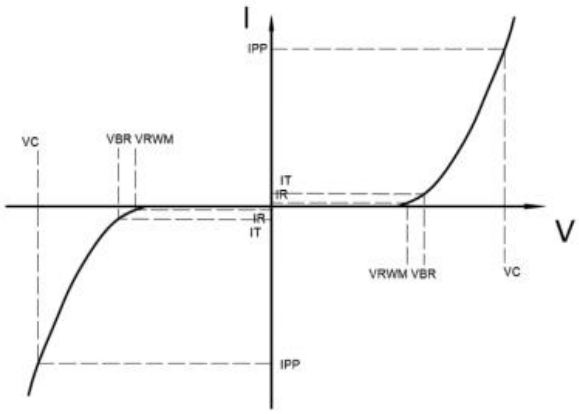
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25℃接触放电	V_{ESD}	±10	KV
ESD (IEC61000-4-2 air discharge) @25℃ 空气放电	V_{ESD}	±15	KV
Peak Pulse Current @25℃峰值脉冲电流	I_{PP}	4	A
Peak Pulse Power @25℃峰值脉冲功率	P_{PK}	80	W
Lead Temperature 管脚温度	T_L	260	℃
Operating Temperature 工作温度	T_{op}	-40~85	℃
Junction Temperature 结温	T_J	125	℃
Storage Temperature 储存温度	T_{stg}	-55~150	℃

■Electrical Characteristics 电特性

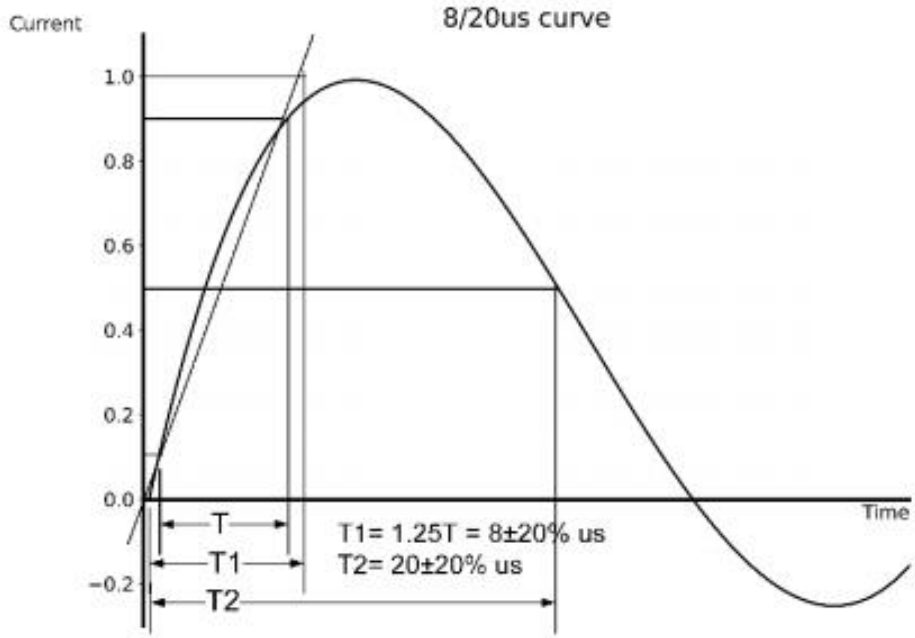
(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃)

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		12		V	I_{PP}=1A,tp=8/20μs
Clamping Voltage 钳位电压	V_C		18		V	I_{PP}=4A,tp=8/20μs
Diode Capacitance 二极管电容	C_D		0.35		pF	V_R=0V,f=1MHz

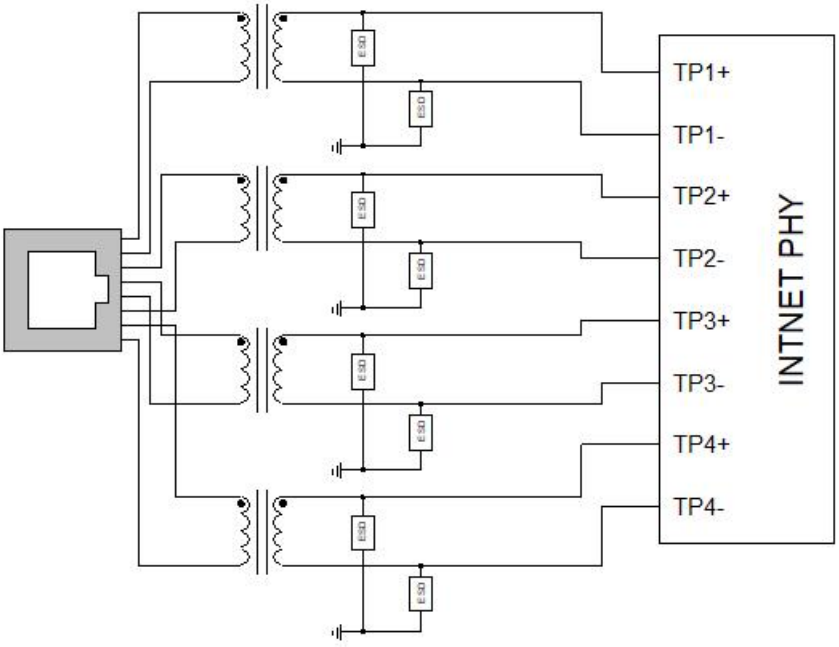
Symbol	Parameters
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
I_F	Forward Current
V_F	Forward Voltage @ I_F



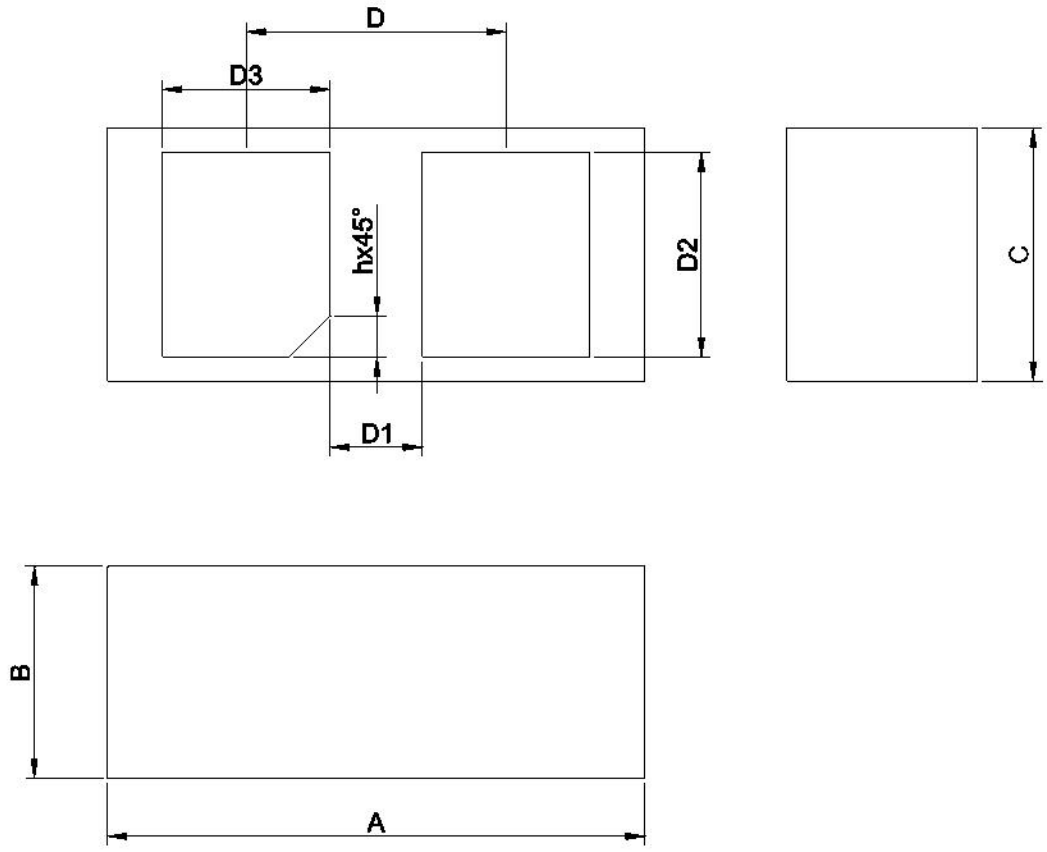
■Typical Characteristic Curve 典型特性曲线



■Typical Applications 典型应用



■ Dimension 外形封装尺寸



Units in millimeters

SYMBOL	MIN	NOM	MAX
A	0.585	0.600	0.635
B	0.270	0.300	0.310
C	0.285	0.310	0.335
D		0.340REF	
D1		0.150REF	
D2	0.210	0.230	0.250
D3	0.170	0.190	0.210