

DFN1610-2L ESD 静电保护二极管**■Features 特点**

Un-directional ESD Protection 单通道单向静电保护

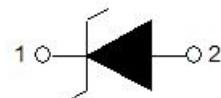
**■Applications 应用**

Notebooks, desktops, and servers 笔记本、台式机和服务器

Cellular handsets and accessories 蜂窝手机及附件

Personal Digital Assistants 个人数码助手

Portable Instrumentation 桌面仪器

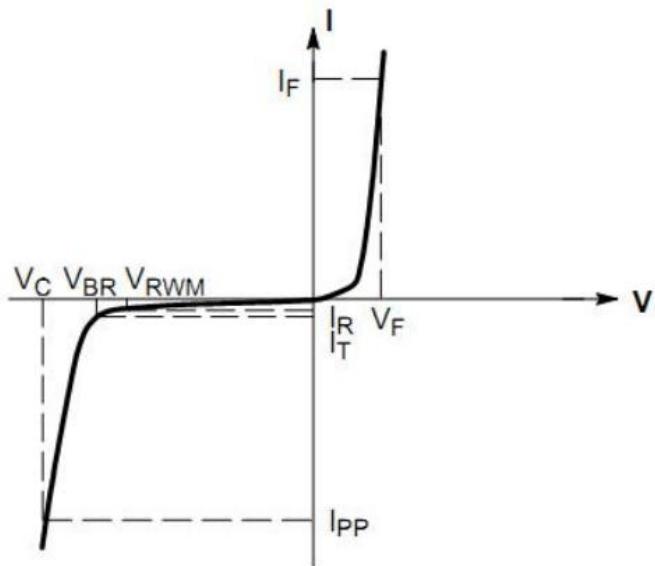
**■Internal Schematic Diagram 内部结构****■Device Marking 产品打标****■Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rate 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V _{ESD}	±30	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±30	KV
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	1000	W
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	70	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

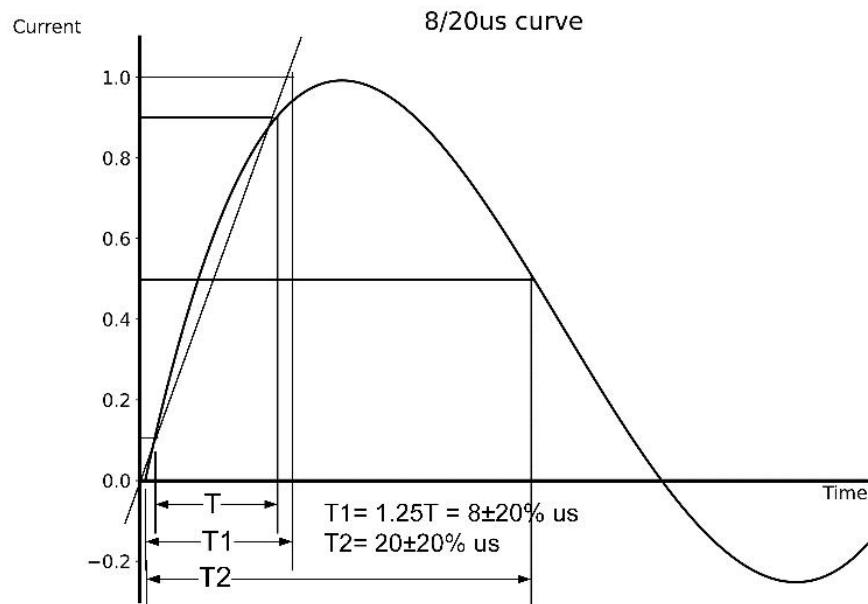
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

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}			7	V	
Reverse Breakdown Voltage 反向击穿电压	V _{BR}	7.5			V	I _T =1mA
Reverse Leakage Current 反向漏电流	I _R			1	μA	V _{RWM} =7V
Clamping Voltage 钳位电压	V _C		9		V	I _{PP} =1A,tp=8/20μs
Clamping Voltage 钳位电压	V _C		15		V	I _{PP} =70A,tp=8/20μs
Diode Capacitance 二极管电容	C _D		500		pF	V _R =0V,f=1MHz

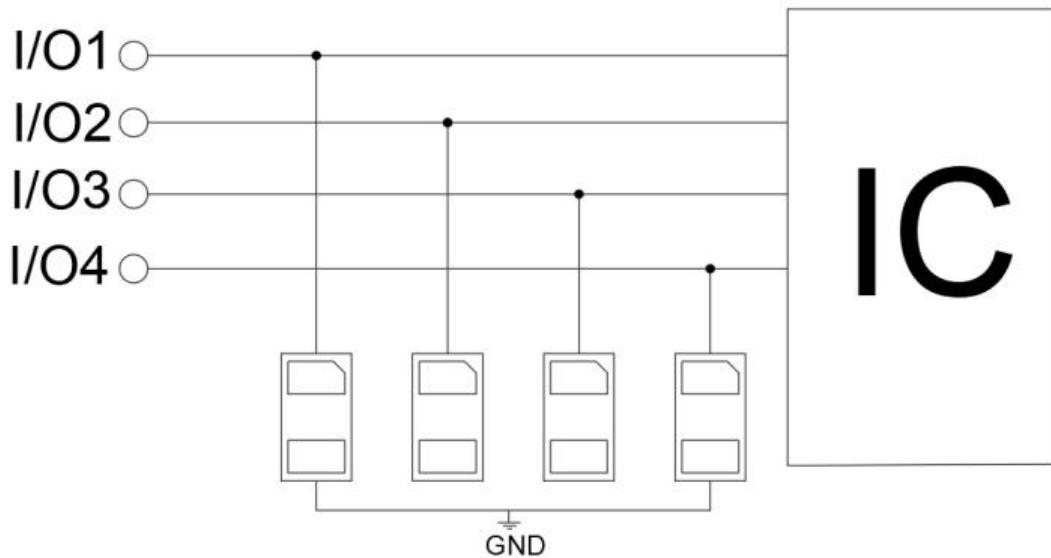
V _{RWM}	Reverse Working Voltage 反向工作电压
V _{R(BR)}	Reverse Breakdown Voltage 反向击穿电压@I _T =1mA
I _T	Test Current 测试电流
I _R	Reverse Leakage Current 反向漏电流@V _{RWM}
V _C	Clamping Voltage 钳位电压
I _{PP}	Reverse Peak Pulse Current 浪涌电流
C _D	Diode Capacitance 结电容 V _{IO} =0V, f = 1MHz



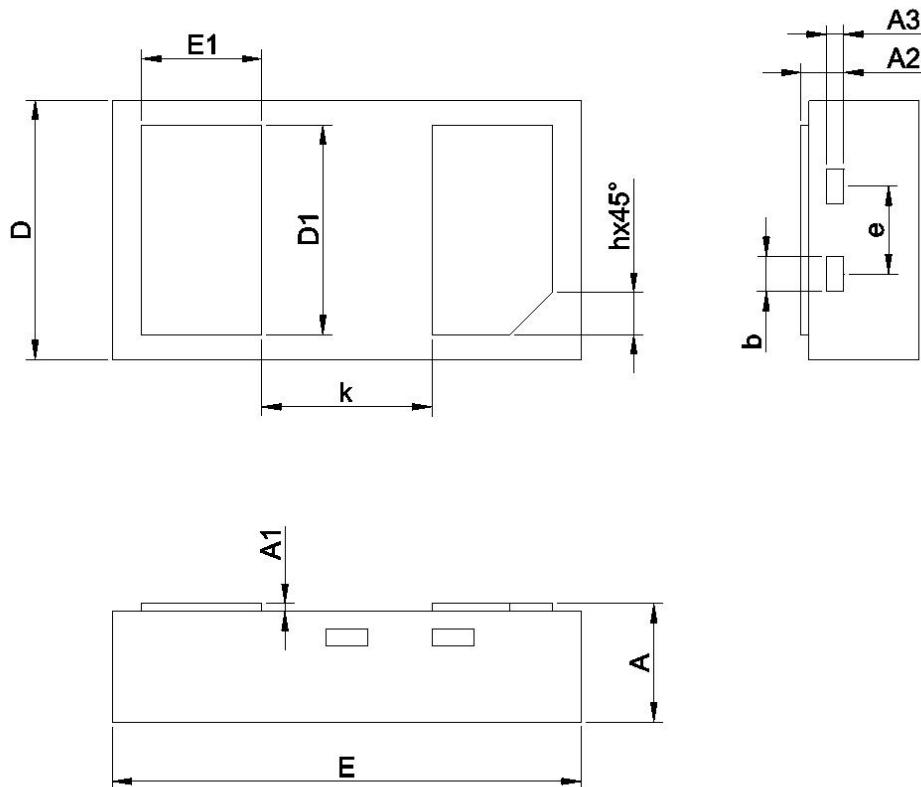
■Typical Characteristic Curve 典型特性曲线



■Typical Application 典型应用



■ Dimension 外形封装尺寸



SYMBOL	MIN	NOM	MAX
A	0.400	0.450	0.500
A1	0.000	0.020	0.050
A2	0.077	0.127	0.177
A3	0.0635 BSC		
b	0.100	0.150	0.200
D	0.950	1.000	1.050
D1	0.750	0.800	0.850
E	1.550	1.600	1.650
E1	0.350	0.400	0.450
e	0.400	0.450	0.500
h	0.150	0.200	0.250
k	0.650	0.700	/

Units: Millimeters