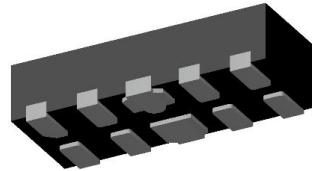


DFN2510-10L ESD 静电保护二极管

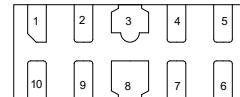
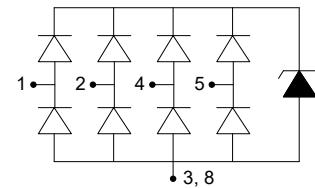
■ Features 特点

Un-directional ESD Protection 单向静电保护
Ultra-low capacitance 极低电容



■ 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

■ Device Marking 产品打标

• 0524P

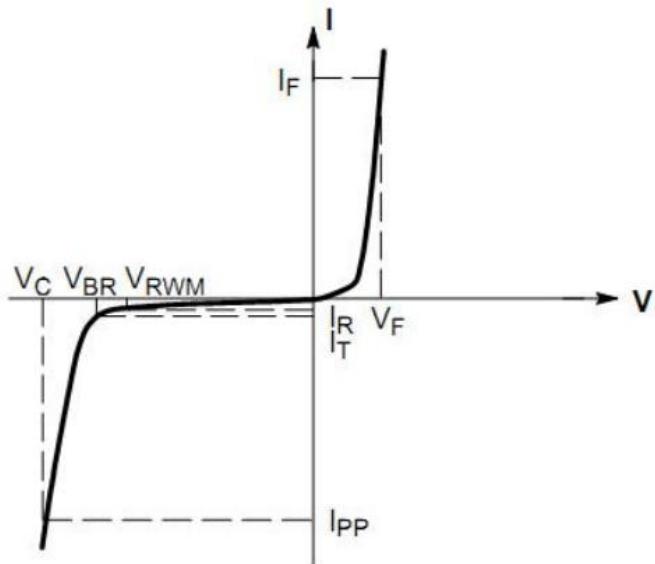
■ Absolute Maximum Ratings 最大额定值

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}	±10	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}	30	W
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	3	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

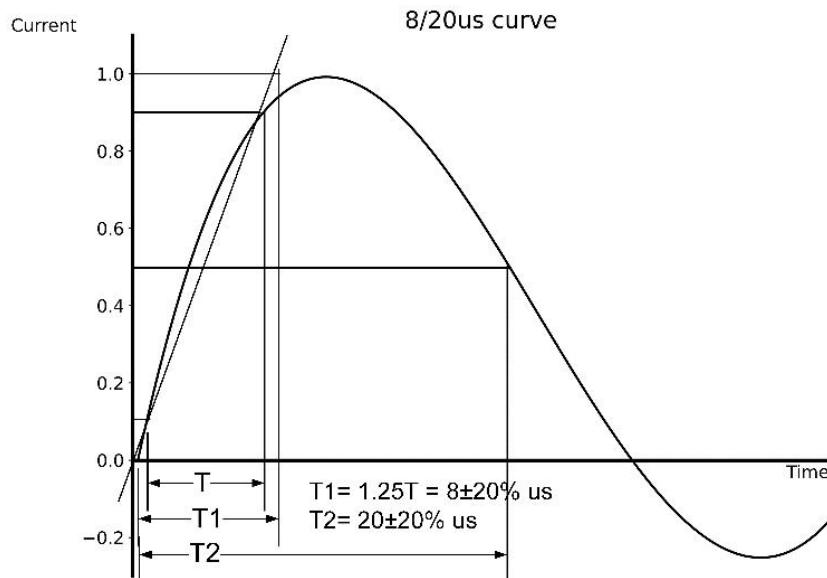
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

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		8		V	I _{PP} =1A, tp=8/20μs
Clamping Voltage 钳位电压	V _C		10		V	I _{PP} =4.5A, tp=8/20μs
Diode Capacitance 二极管电容	C _D	I/O to GND Between I/O	0.4 0.2		pF	V _R =0V, f=1MHz

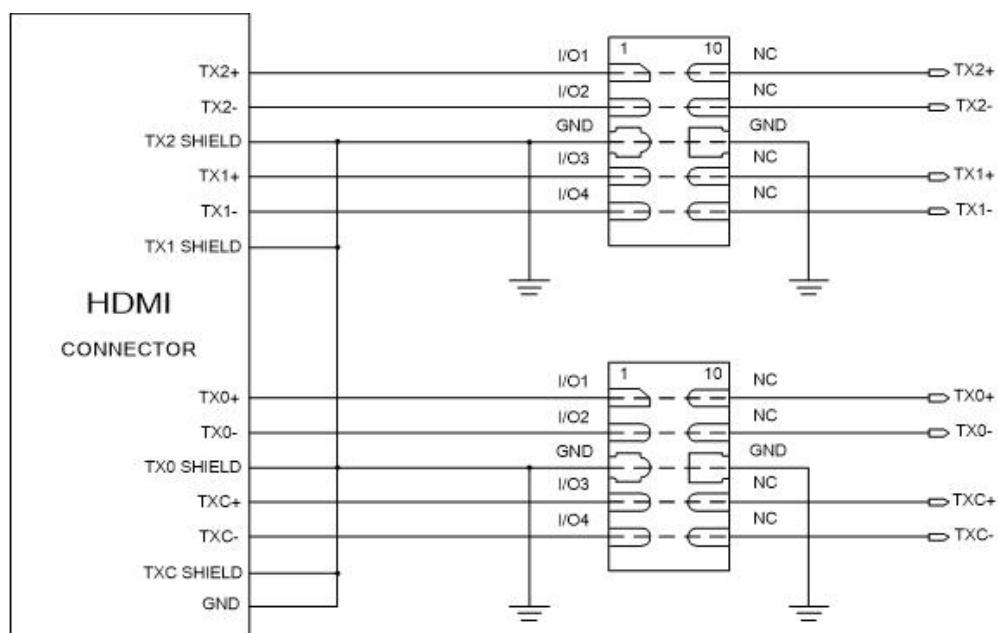
V _{RWM}	Reverse Working Voltage 反向工作电压
V _{R(BR)}	Reverse Breakdown Voltage 反向击穿电压@I _T =1mA
I _T	Test Current 测试电流
I _R	Reverse Leakage Current 反向漏电流@V _{RWM}
V _C	Clamping Voltage 钳位电压
I _{PP}	Reverse Peak Pulse Current 浪涌电流
C _D	Diode Capacitance 电容 V _{IO} =0V, f = 1MHz



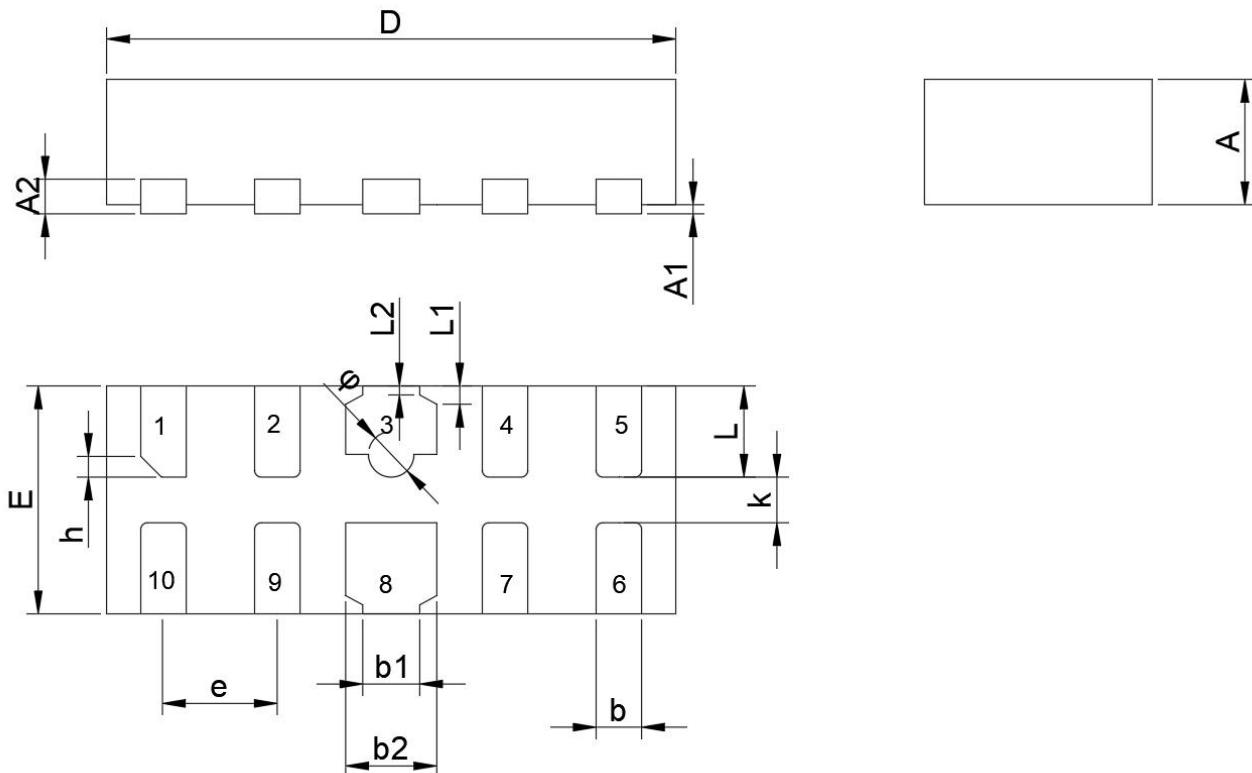
■Typical Characteristic Curve 典型特性曲线



■Typical Application 典型应用



■ Dimension 外形封装尺寸



Dimensions in Millimeter							
Symbol	Min.	Nom.	Max.	Symbol	Min.	Nom.	Max.
A	0.500	0.550	0.600	D	2.450	2.500	2.550
A1	0.00	/	0.05	E	0.950	1.00	1.050
A2	0.122	0.152	0.200	e	0.450	0.500	0.550
b	0.150	0.200	0.250	h	0.080	0.120	0.150
b1	0.200	0.250	0.300	k	0.150	0.200	0.250
b2	0.350	0.400	0.450	L	0.350	0.400	0.450
L1		0.075		L2		0.05	
φ	0.150	0.200	0.250				