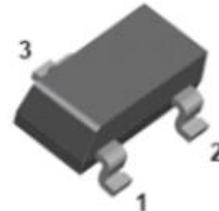


SOT-23 ESD 静电保护二极管**■Features 特点**

Bidirectional ESD Protection 双向静电保护

Operating voltage 工作电压: 7V or 12V

**■Applications 应用**

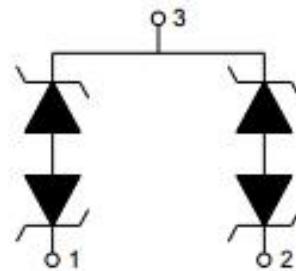
Portable electronics 便携式电子产品

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

**■Device Marking 产品打标**

FSNC712A=712

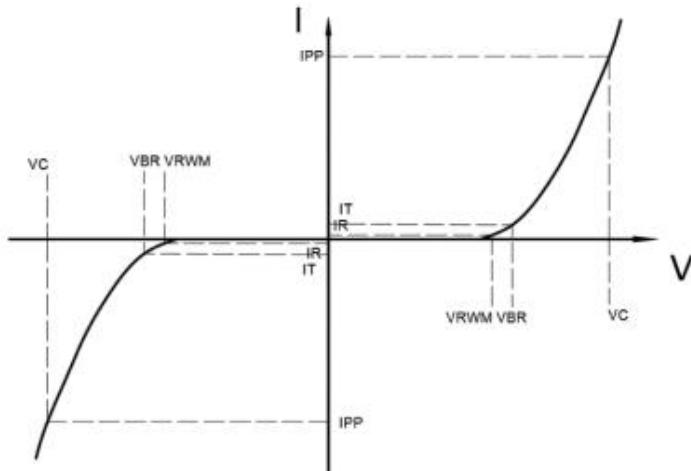
■Absolute Maximum Ratings 最大额定值

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}	±8	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±15	KV
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	17	A
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	350	W
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

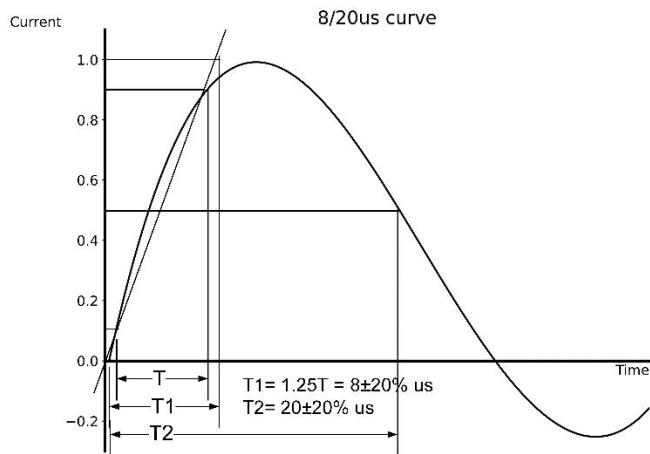
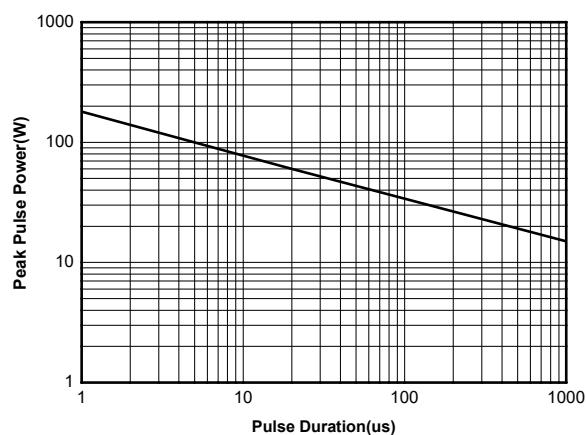
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

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}			7/12	V	
Reverse Breakdown Voltage 反向击穿电压	V _{R(BR)}	7.5/13.3			V	I _T =1mA
Reverse Leakage Current 反向漏电流	I _R			1	μA	V _R =V _{RWM}
Clamping Voltage 钳位电压	V _C		14/20		V	I _{PP} =5A,tp=8/20μs
Clamping Voltage 钳位电压	V _C		19/26		V	I _{PP} =17A,tp=8/20μs
Junction Capacitance 结电容	C _J		55		pF	V _R =0V,f=1MHz

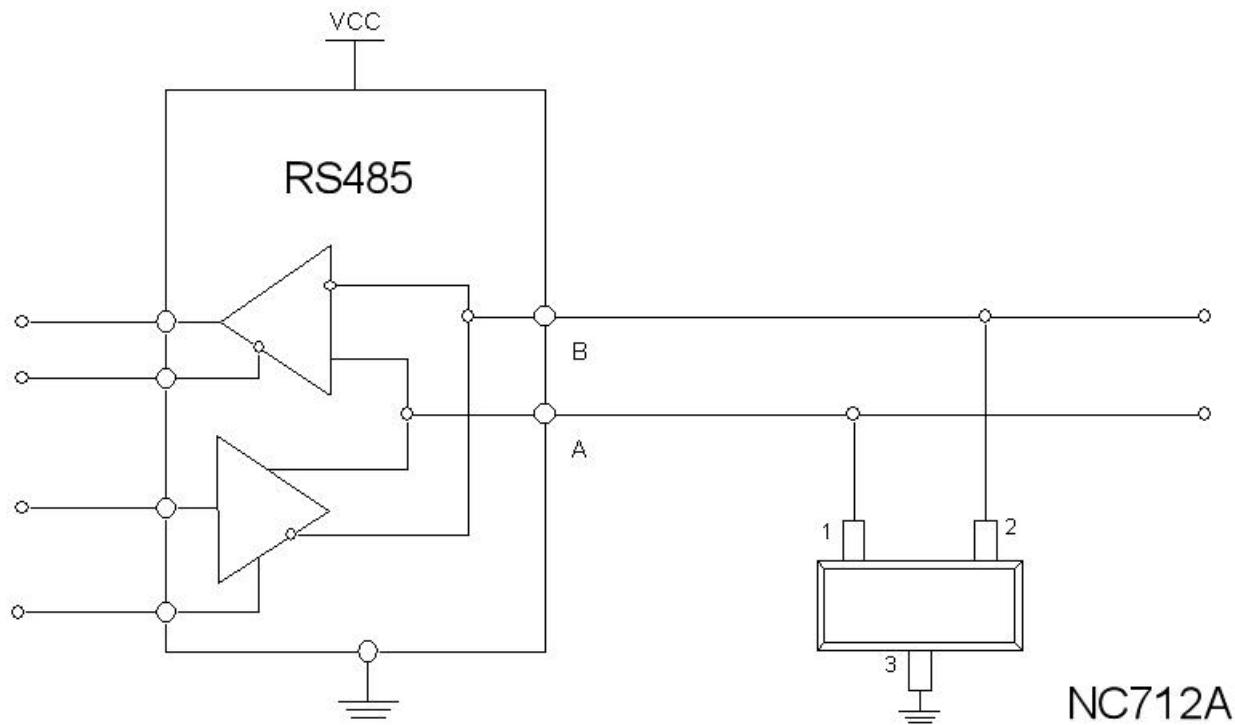
Symbol	Parameters
V _{RWM}	Peak Reverse Working Voltage
I _R	Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
I _F	Forward Current
V _F	Forward Voltage @ I _F



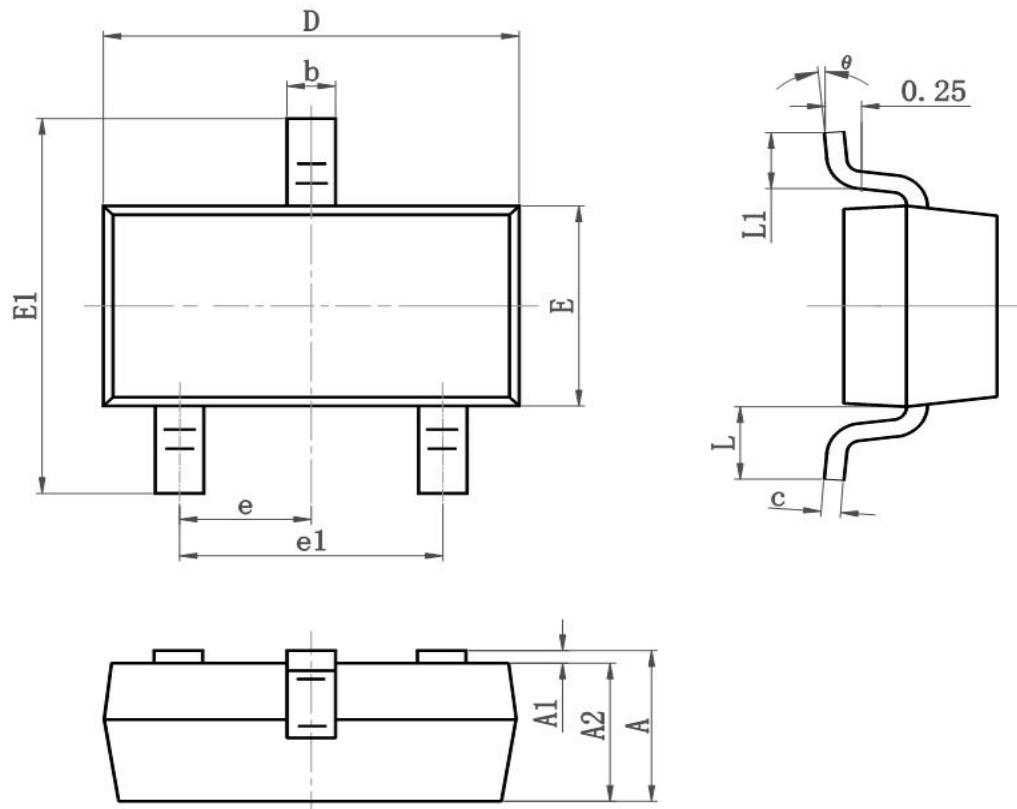
■Typical Characteristic Curve 典型特性曲线



■Typical 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°