



安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

FSNC1524

SOD-323 ESD 静电保护二极管

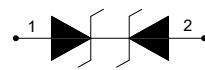
■Features 特点

Bidirectional ESD Protection 双向静电保护



■Applications 应用

LIN-bus protection 串行通信总线保护
Automotive applications 自动系统应用



■Device Marking 产品打标



■Absolute Maximum Ratings 最大额定值

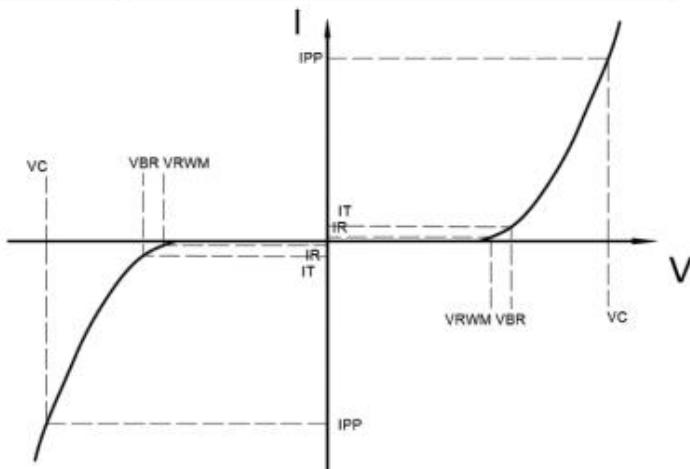
Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge)@25°C接触放电	V _{ESD}	±30	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±30	KV
Peak Pulse Current @25°C峰值脉冲电流 pin 1 to 2	I _{PP}	9	A
Peak Pulse Current @25°C峰值脉冲电流 pin 2 to 1	I _{PP}	6	A
Peak Pulse Power @25°C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

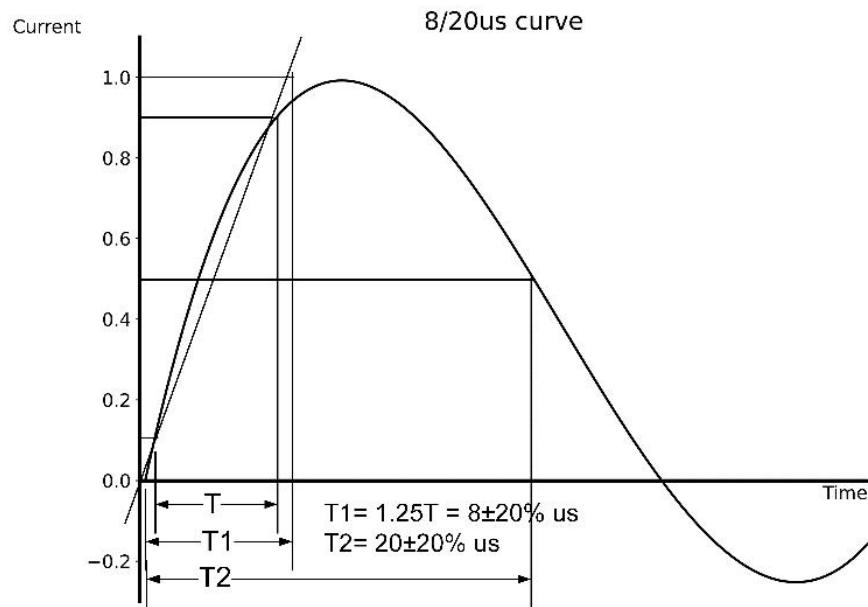
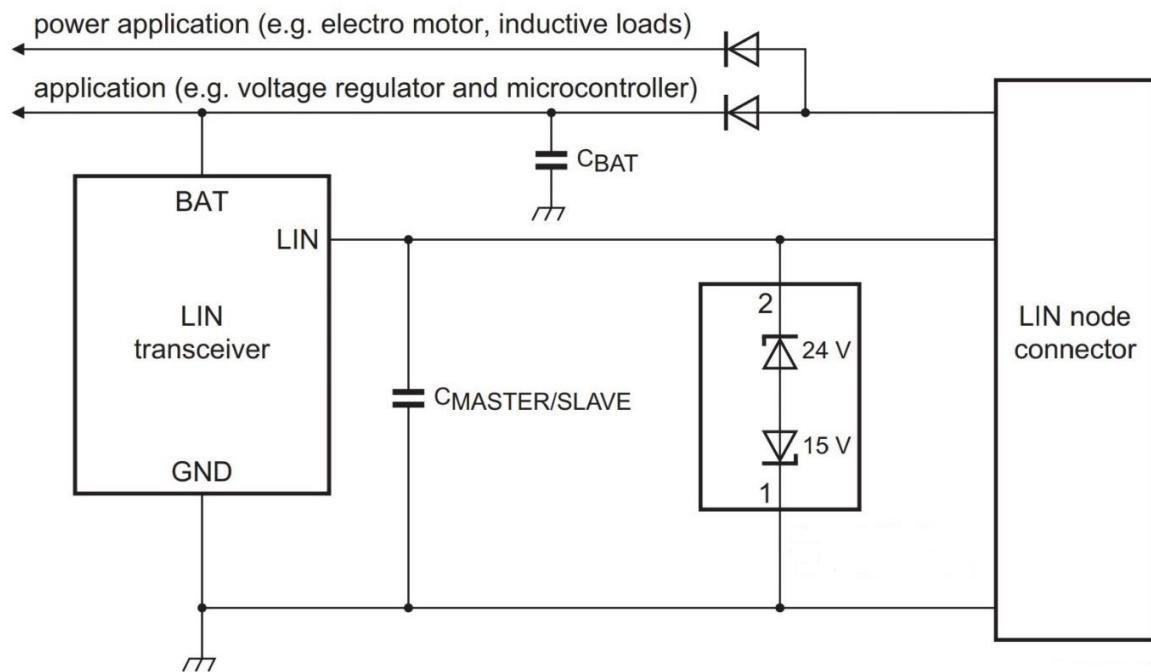
■ Electrical Characteristics 电特性

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

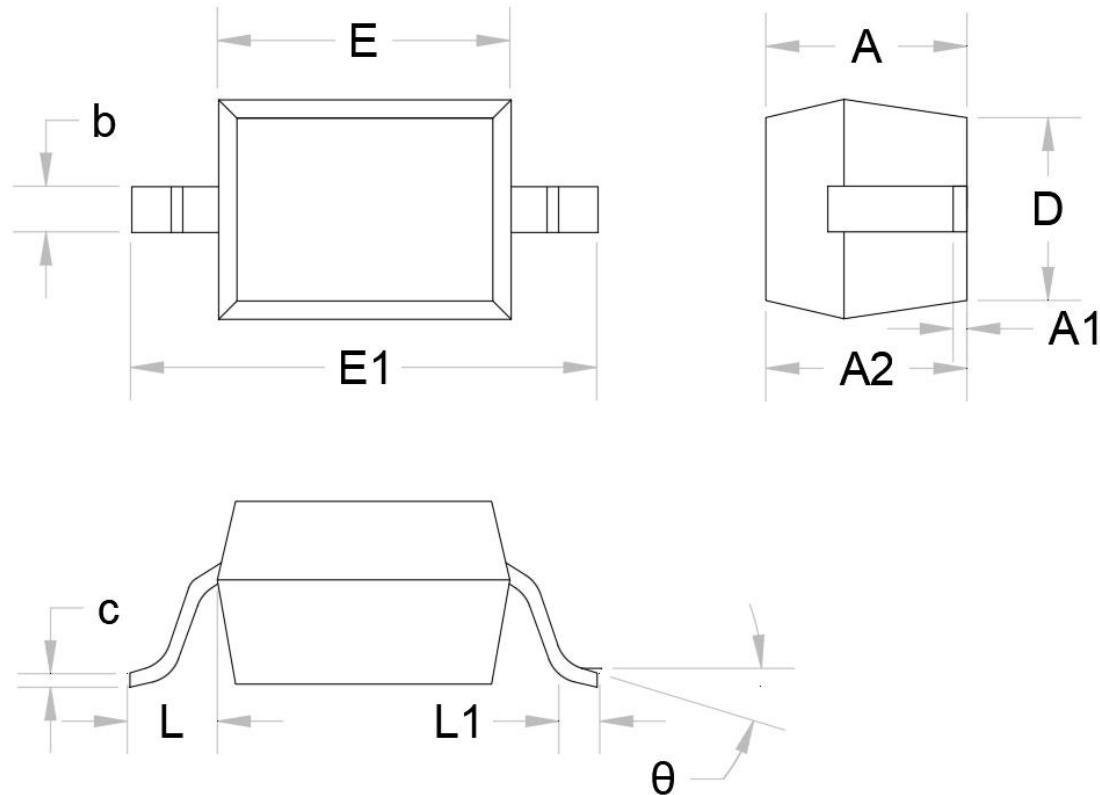
Characteristic Parameters 特性参数	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位	Condition 条件
Reverse Stand-off Voltage 反向工作电压	V_{RWM}			15/24	V	
Reverse Breakdown Voltage 反向击穿电压	$V_{R(BR)}$	16.5/26			V	$I_T=1\text{mA}$
Reverse Leakage Current 反向漏电流	I_R			1	μA	$V_R=V_{RWM}$
Clamping Voltage 钳位电压	V_C		25/40		V	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$
Clamping Voltage 钳位电压	V_C		55/63		V	$I_{PP}=9/6\text{A}, t_p=8/20\mu\text{s}$
Junction Capacitance 结电容	C_J		30		pF	$V_R=0\text{V}, f=1\text{MHz}$

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		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
C	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475REF		0.019REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°