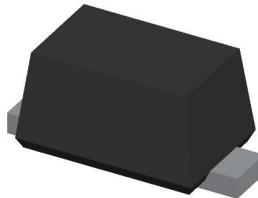


SOD-923 ESD 静电保护二极管**■Features 特点**

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

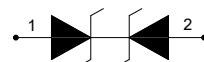
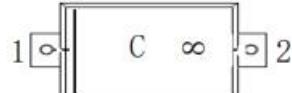
**■Applications 应用**

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

Peripherals 电脑外设

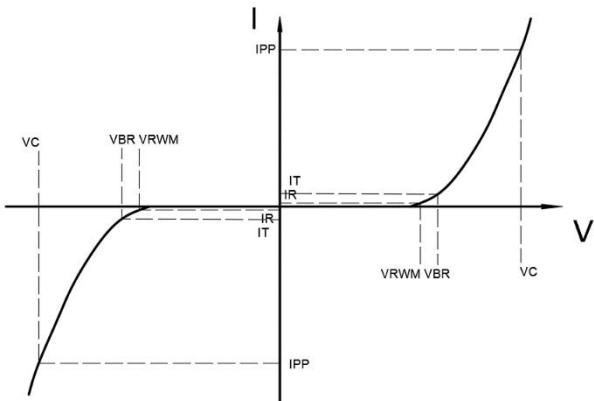
**■Internal Schematic Diagram 内部结构****■Device Marking 产品打标****■Absolute Maximum Ratings 最大额定值**

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}	±20	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±20	KV
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	68	W
Peak Pulse Current @25°C峰值脉冲电流	I _{PP}	5.5	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

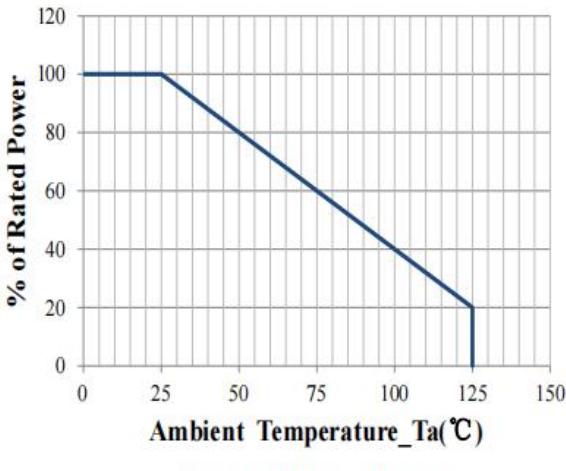
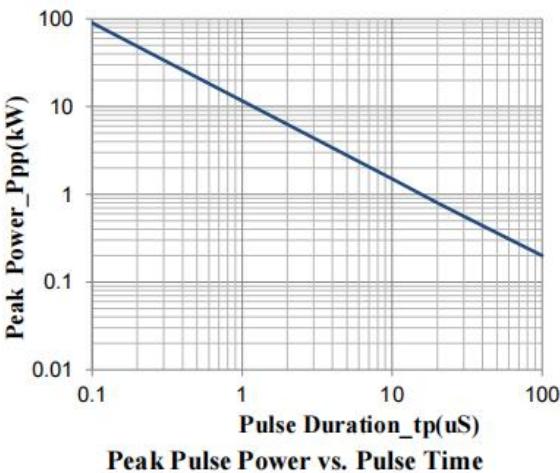
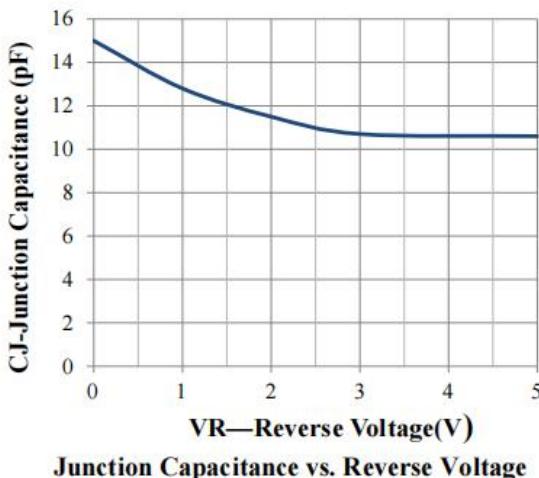
■ Electrical Characteristics 电特性(T_A=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

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}	5.7		9	V	I _T =1mA
Reverse Leakage Current 反向漏电流	I _R			0.1	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			17	V	I _{PP} =5.5A, tp=8/20μs
Diode Capacitance 二极管电容	C _D	8	8.9	15	pF	V _R =0V, f=1MHz

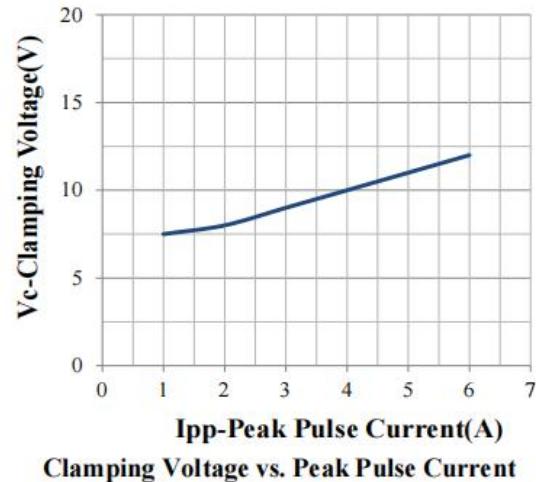
V _{RWM}	Reverse Working Voltage 反向工作电压
V _{R(BR)}	Reverse Breakdown Voltage 反向击穿电压@I _T =1mA
I _T	Test Current 测试电流
I _R	Reverse Leakage Current 反向漏电流@V _{RWM}
V _C	Clamping Voltage 钳位电压
I _{PP}	Reverse Peak Pulse Current 浪涌电流
C _D	Diode Capacitance 结电容 V _{IO} =0V, f = 1MHz



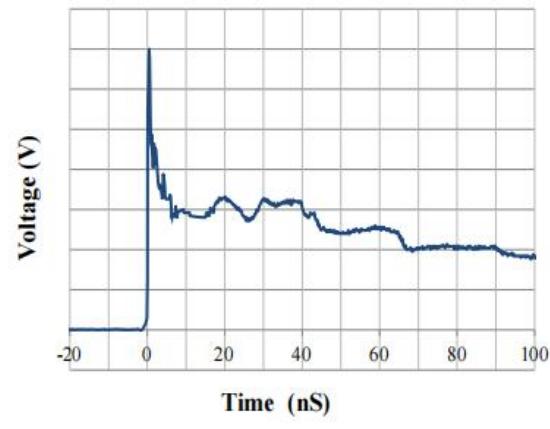
■Typical Characteristic Curve 典型特性曲线



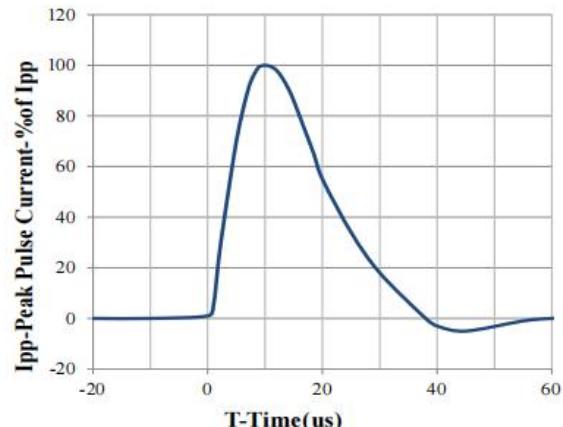
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current

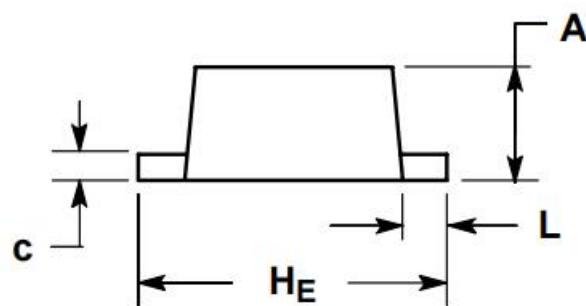
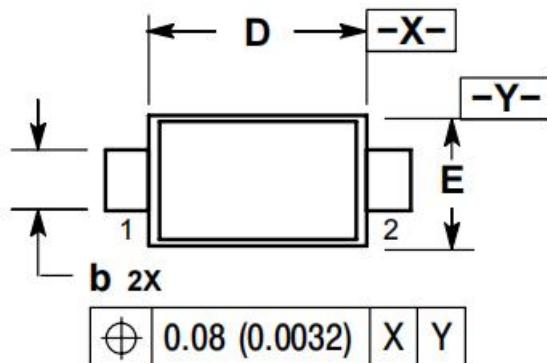


IEC61000-4-2 Pulse Waveform



8 X 20us Pulse Waveform

■ Dimension 外形封装尺寸



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.34	0.37	0.40	0.013	0.015	0.016
b	0.15	0.20	0.25	0.006	0.008	0.010
c	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	0.55	0.60	0.65	0.022	0.024	0.026
H _E	0.95	1.00	1.05	0.037	0.039	0.041
L	0.05	0.10	0.15	0.002	0.004	0.006