

Features

- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- Fast response ,response time less than 1ns.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates

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Mechanical Characteristics

- JEDEC SOD-923 package
- Molding compound flammability rating: UL 94V-0

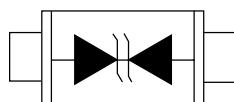
Applications

- USB 2.0
- HDMI 1.3
- SATA and eSATA
- DVI
- IEEE 1394
- PCI Express
- Portable Electronics
- Notebooks

Ordering Information

Part Number	Qty per Reel	Reel Size
ESD5V0B05-923	8000	7"

Pin Configuration



PROTECTION PRODUCTS

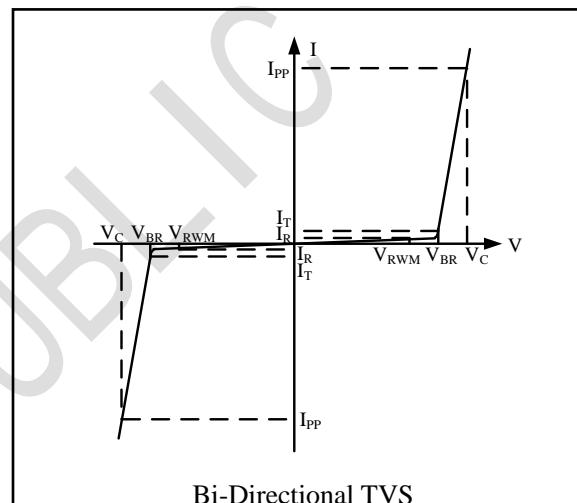
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Absolute Maximum Rating

Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		± 15 ± 8	kV
ESD Voltage per human body mode		16	kV
Peak Pulse Power(8/20us)	P _{pp}	80	W

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

Symbol	Parameter
V _{RWM}	Nominal Reverse Working Voltage
I _R	Reverse Leakage Current @ V _{RWM}
V _{BR}	Reverse Breakdown Voltage @ I _T
I _T	Test Current for Reverse Breakdown
V _C	Clamping Voltage @ I _{PP}
I _{PP}	Maximum Peak Pulse Current
C _{ESD}	Parasitic Capacitance
V _R	Reverse Voltage
f	Small Signal Frequency



Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Working Voltage	V _{RWM}				5	V
Breakdown Voltage	V _{BR}	I _t =1mA	5.6	6.7	7.8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Junction Capacitance	C _j	V _R =0V f = 1MHz		0.5		pF

PROTECTION PRODUCTS
 Typical characteristics

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Fig1. 8/20 μ s Pulse Waveform

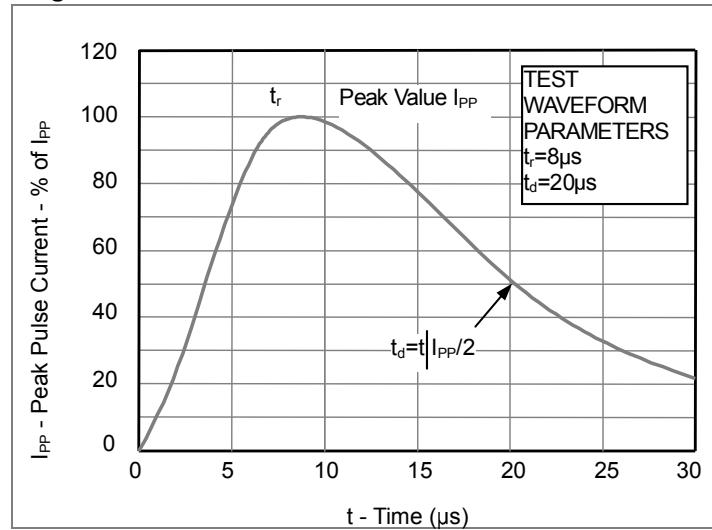


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

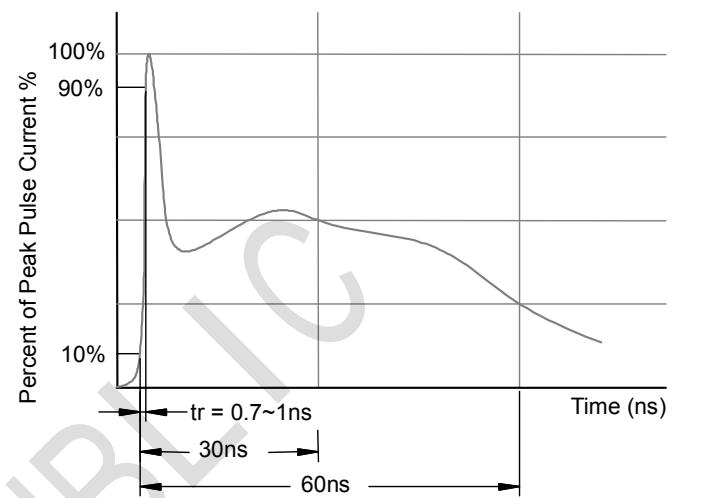
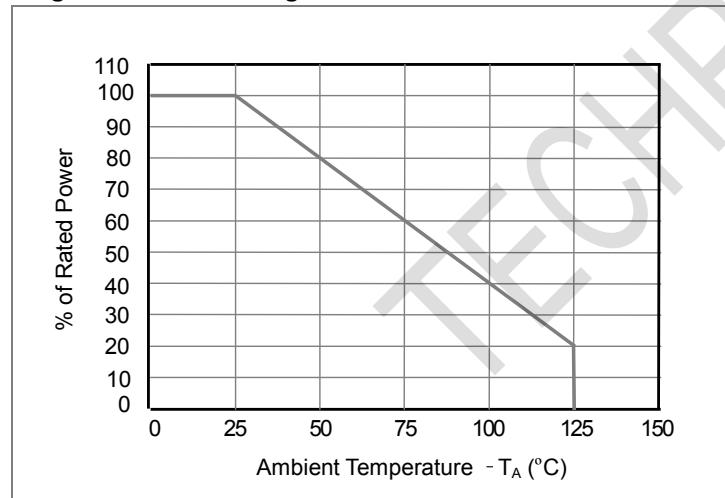
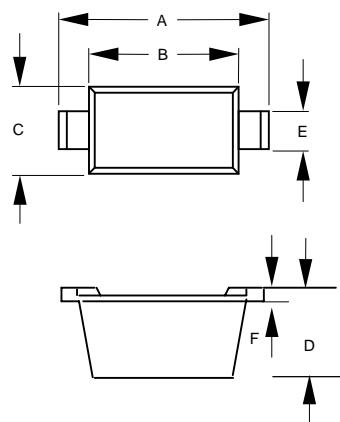


Fig3. Power Derating Curve



Outline Drawing - SOD-923



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.037	.041	0.95	1.05	
B	.030	.033	0.75	0.85	
C	.022	.026	0.55	0.65	
D	.014	.017	0.36	0.43	
E	.006	.010	0.15	0.25	
F	.003	.007	0.07	0.17	

Land Pattern - SOD-923

