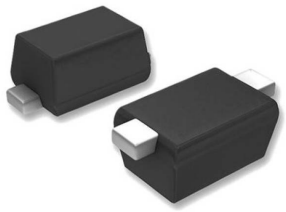
Features

- 63W (tp=8/20μs) Peak Pulse Power
- Bi-directional configurations
- Low clamping voltage
- Low leakage current
- Moisture sensitivity level: Level 3
- Solid-state silicon avalanche technology
- Meet IEC61000-4-2
  Contact discharge ±30kV
  Air discharge ±30kV



Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

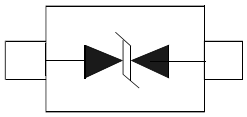
Meachanical Data

- SOD923 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel(7 inch)

Agency Approvals

Icon	Description
RoHS	Compliance with (EU)2015/863
HF	Compliance with IEC61249-2-21:2003
Pb	Mean lead free

Schematic & PIN Configuration



Absolute Maximum Ratings

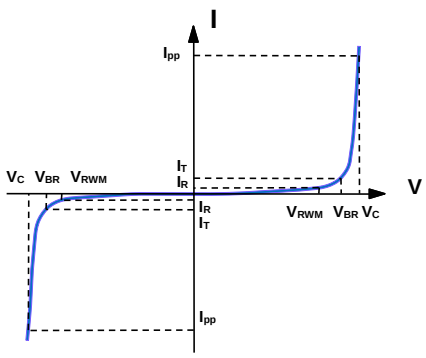
Parameter	Symbol	Value	Unit
Peak Pulse Power(t_p=8/20us)	P_{PK}	63	W
Peak Pulse Current(t_p=8/20us)	I_{PP}	7	A
Lead Soldering Temperature	T_L	260(10seconds)	℃
Maximum junction temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55 to +150	℃

Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V_{RWM}				5	V
Breakdown Voltage	V_{BR}	I_T = 1mA	6			V
Reverse Leakage Current	I_R	V_{RWM} = 5V			1	μA
Clamping Voltage	V_C	I_{PP} = 7A, t_p=8/20μs			9	V
Junction Capacitance	C_J	V_R = 0V, f = 1MHz		13.5		pF

I-V Curve Characteristics

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Reverse Stand-Off Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Curent



Note:. 8/20μs pulse waveform.

Characteristics Cureves(TA=25°C unless otherwise Specified)

Fig 1. 8/20μs Pulse Waveform

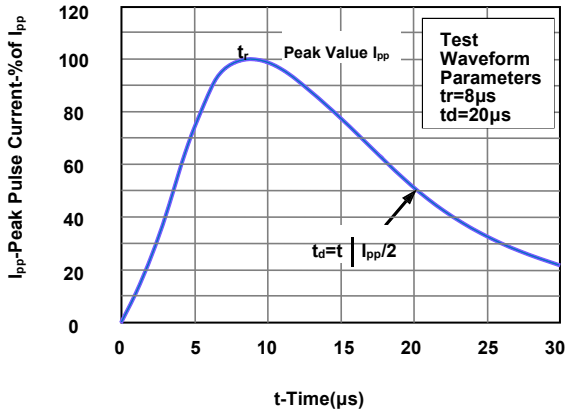


Figure 2.ESD Pulse Waveform (according to IEC61000-4-2)

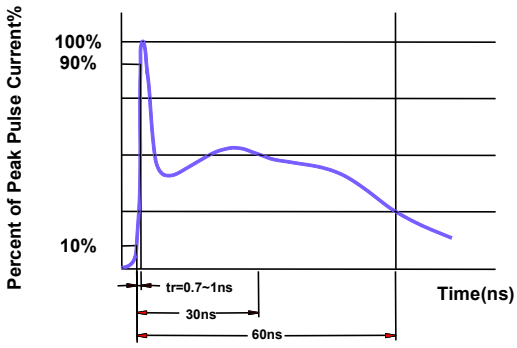


Fig 3. Power Derating Curve

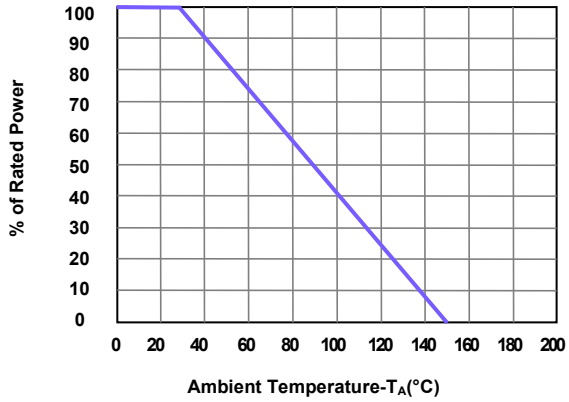
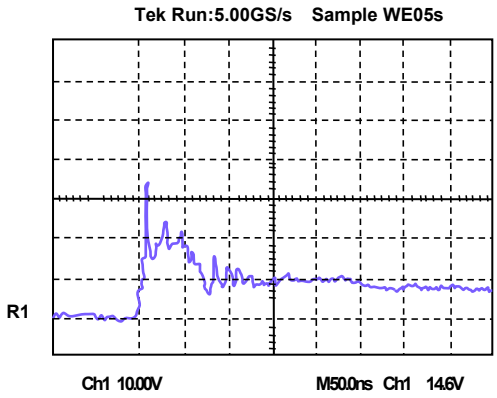
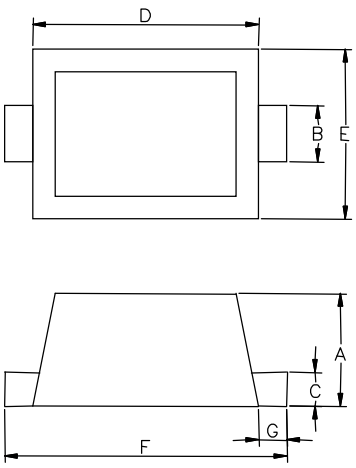


Figure 4.ESD Clamping(8KV Contact per IEC61000-4-2)

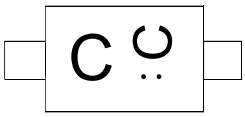


SOD923 Package Outline



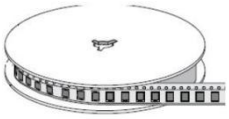
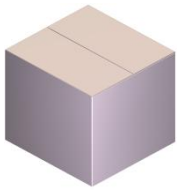
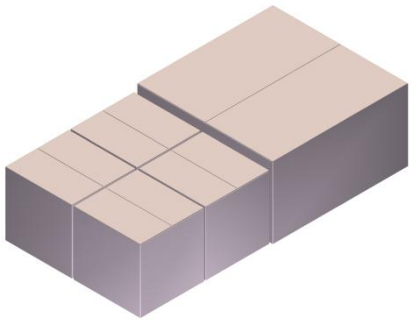
DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	0.34	0.40	0.013	0.016
B	0.15	0.25	0.006	0.010
C	0.07	0.17	0.003	0.007
D	0.75	0.85	0.030	0.033
E	0.55	0.65	0.022	0.026
F	0.95	1.05	0.037	0.041
G	0.05	0.15	0.002	0.006

Marking Information



● ●: Date code

Packaging Information

	Reel	Inner Box	Carton
Size	φ178mm(7 inch)	215×205×205mm	435×435×230mm
Quantity	MPQ/MOQ: 1 reel=8000pcs	1 Inner box=10 reels=80,000pcs	1Carton=4 Inner boxes=320,000pcs
Photos			

Notice: 1、Each reel is placed in an aluminum foil bag and vacuum-packed separately.
2、Above packaging photos make from 3D software for reference only，please refer to actual product as the standard.