

Features

- 300W ($t_p=8/20\mu s$) Peak Pulse Power
 - Uni-directional configurations
 - Protects one I/O line or power line
 - Low clamping voltage
 - Low leakage current
 - Moisture sensitivity level: Level 1
 - Solid-state silicon avalanche technology
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - Meet IEC61000-4-2
- Contact discharge $\pm 8kV$
Air discharge $\pm 15kV$



Applications

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

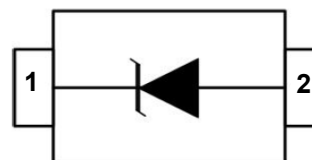
Mechanical Data

- SOD-323 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel(7 inch)
- Weight 5.0 Milligrams (Approximate)

Agency Approvals

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

Schematic & PIN Configuration



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Peak Pulse Power($t_p=8/20\mu s$)	P_{PK}	300	W
Lead Soldering Temperature	T_L	260(10seconds)	$^{\circ}C$
Junction Temperature	T_J	-55 to +150	$^{\circ}C$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}C$

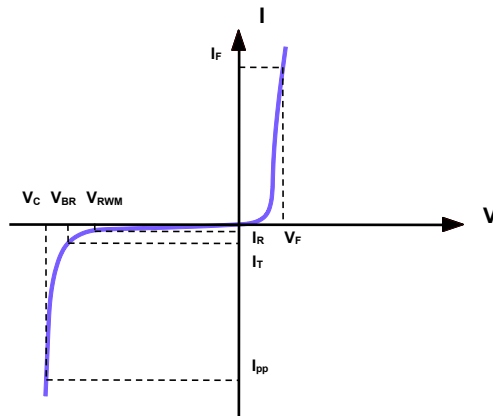
Electrical Characteristics (TA=25 $^{\circ}C$ unless otherwise specified)

Type Number	Reverse Stand-Off Voltage	Minimum Breakdown Voltage	Peak Pulse Voltage @8/20 μs	V_C @8/20 μs		Reverse Leakage @ V_{RWM}	Typical Capacitance
	V_{RWM}	V_{BR} @1mA	V_C @1A	(max.)	@ I_{PP}	I_R @ V_{RWM}	DC=0V C_J @ 1 MHz
	V	V	V	V	A	μA	pF
RLSD32A031V	3.3	5	7.8	15	20	1	195
RLSD32A051V	5	6	9.8	15	21	5	228
RLSD32A081V	8	8.5	13.4	21	18	10	150
RLSD32A121V	12	13.3	19.0	25.9	15	1	120
RLSD32A151V	15	16.7	24.0	30	12	1	100
RLSD32A241V	24	26.7	43.0	48	8	1	80
RLSD32A361V	36	40.0	60.0	75	5	1	30

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 Current
I_F	Forward Current
V_F	Forward Voltage @ I_F

Note: 8/20 μs pulse waveform.



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

Fig 1. 8/20μs Pulse Waveform

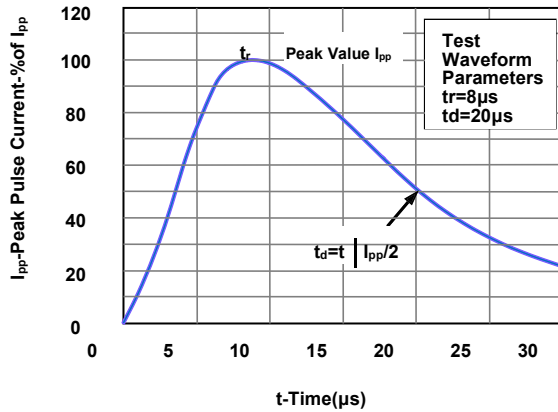
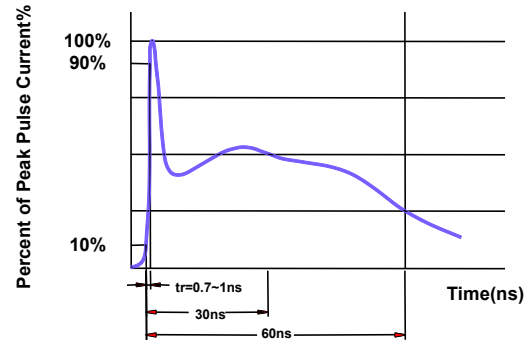
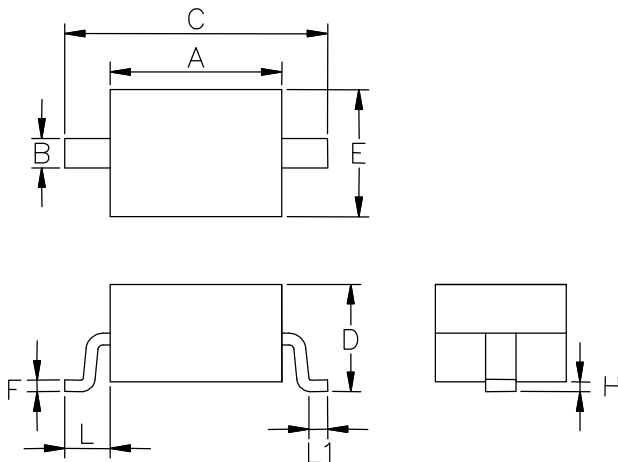


Fig2.ESD Pulse Waveform (according to IEC61000-4-2)

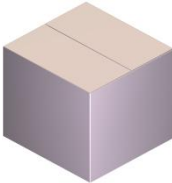
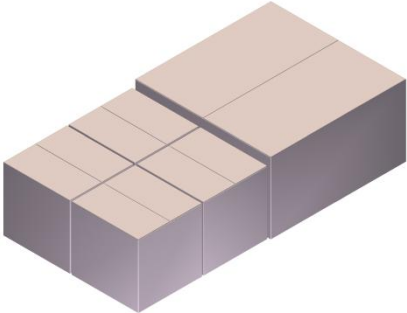


SOD-323 Package Outline



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	0.00	1.00	0.00	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.00	0.004

Packaging Information

	Reel	Inner Box	Carton
Size	φ178mm(7 inch)	215×205×205mm	435×435×230mm
Quantity	MPQ/MOQ: 1 reel=3000pcs	1 Inner box=10 reels=30,000pcs	1Carton=4 Inner boxes=120,000pcs
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.