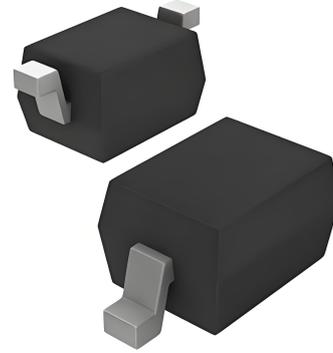


Features

- 400W (tp=8/20μs) Peak Pulse Power
- Bi-directional configurations
- Low clamping voltage
- Low leakage current
- Low Capacitance ESD Protection
- Moisture sensitivity level: Level 1
- Solid-state silicon avalanche technology
- Meet IEC61000-4-2
Contact discharge ±30kV
Air discharge ±30kV



Applications

- Ethernet-10/100/1000 Base T
- Handheld-Wireless Systems
- USB Interface
- Personal Digital Assistant(PDA's)
- Cellular Phones

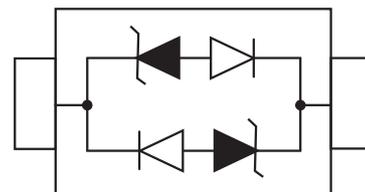
Mechanical Data

- SOD323 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
	Mean lead free

Schematic & PIN Configuration



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Peak Pulse Power($t_p=8/20\mu s$)	P_{PK}	400	W
Peak Pulse Current($t_p=8/20\mu s$)	I_{PP}	20	A
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	$^{\circ}C$

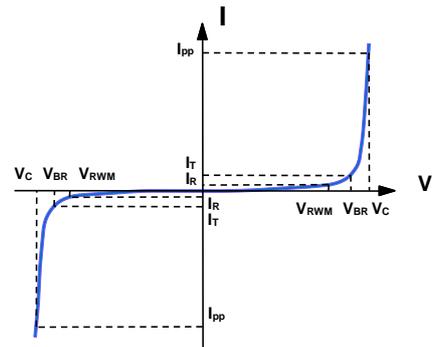
Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V_{RWM}				8	V
Breakdown Voltage	V_{BR}	$I_T = 1mA$	9	10	12	V
Reverse Leakage Current	I_R	$V_{RWM} = 8V$			0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p=8/20\mu s$			10.5	V
Clamping Voltage	V_C	$I_{PP} = 20A, t_p=8/20\mu s$		18	20	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		1.0	1.5	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 Current

Note: 8/20 μs pulse waveform.



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

Fig 1. 8/20µs Pulse Waveform

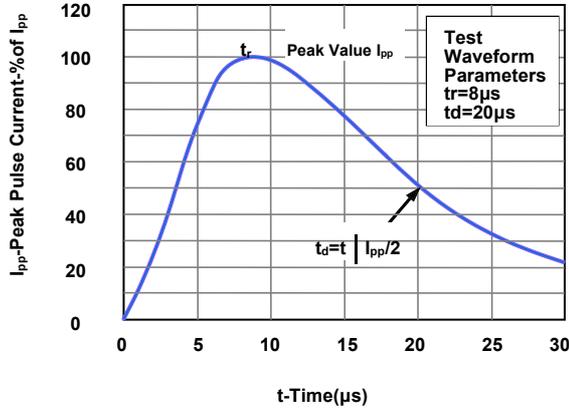
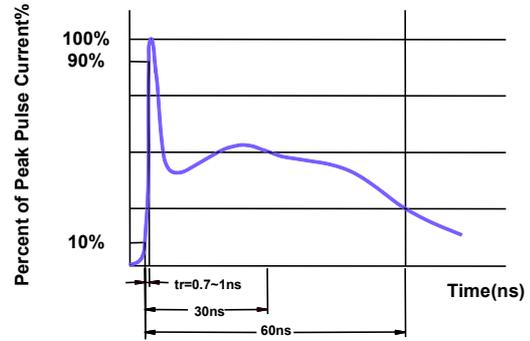
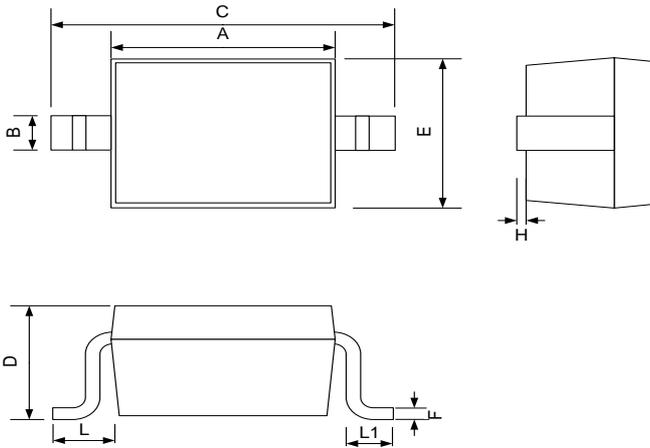


Fig 2. ESD Pulse Waveform (according to IEC61000-4-2)



SOD323 Package Outline

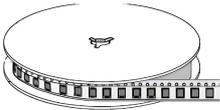
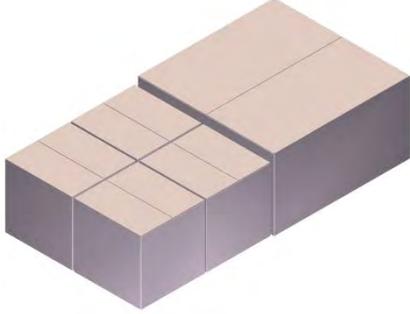


DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	-	1.0	0.00	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.00	0.004

Marking Information



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.