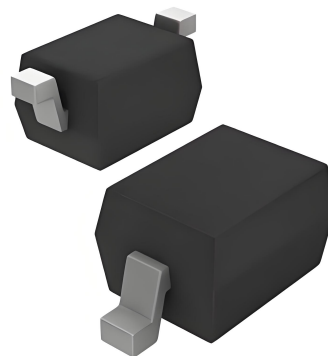


Features

- 560W (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
 - IEC 61000-4-5 (Lightning) 18A (8/20μs)
 - Meet IEC61000-4-2
- Contact discharge ±30kV
Air discharge ±30kV



Applications

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

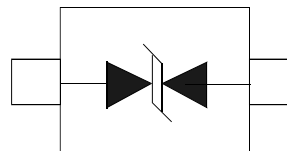
Meachanical Data

- 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}	560	W
Peak Pulse Current($t_p=8/20\mu s$)	I_{PP}	18	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	$^{\circ}C$

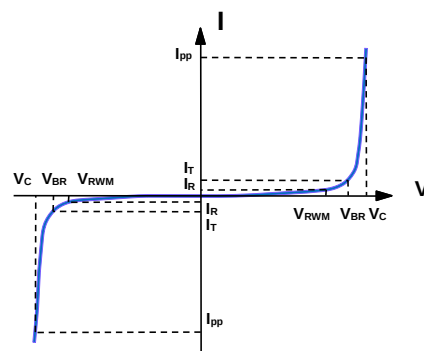
Electrical Characteristics (TA=25 $^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V_{RWM}				12	V
Breakdown Voltage	V_{BR}	$I_T = 1mA$	13.3	14.5	16.5	V
Reverse Leakage Current	I_R	$V_{RWM} = 12V$			0.2	μA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p=8/20\mu s$			16	V
Clamping Voltage	V_C	$I_{PP} = 18A, t_p=8/20\mu s$			26	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		20	40	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

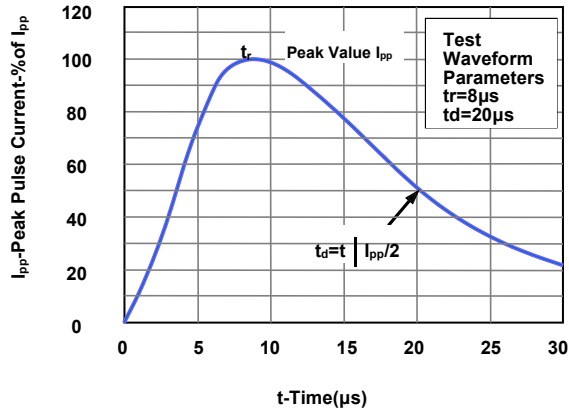


Fig 2. ESD Pulse Waveform (according to IEC61000-4-2)

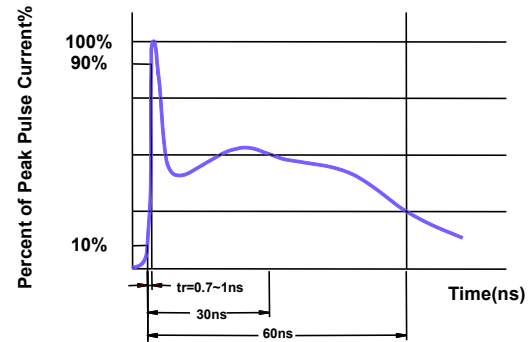


Fig 3. Power Derating Curve

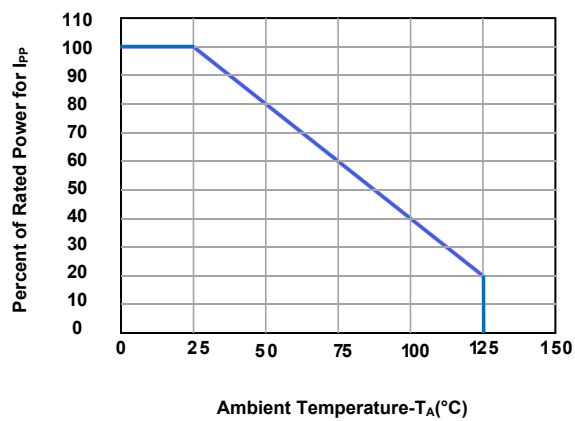


Figure 4. Clamping Voltage vs. I_{pp}

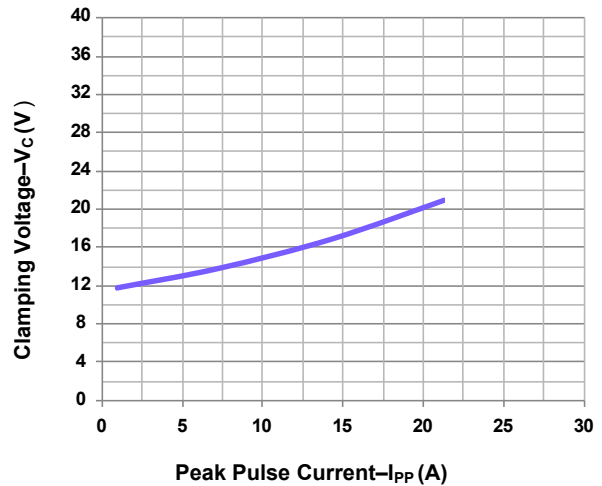


Fig 5. Peak Pulse Power vs. Pulse Time

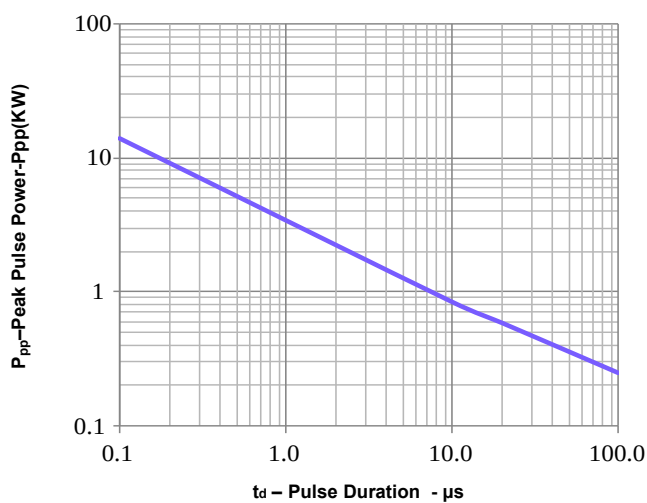
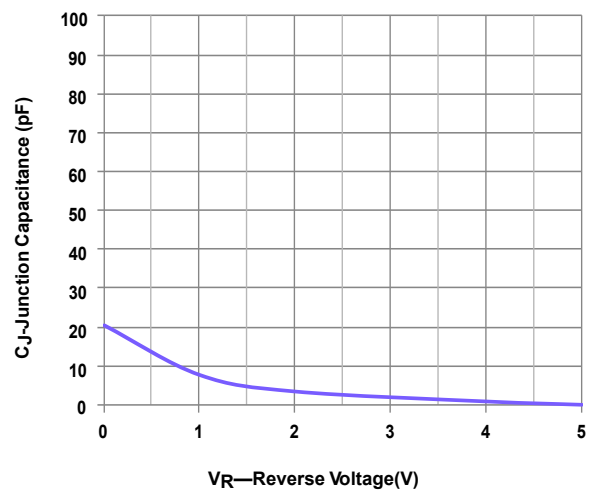
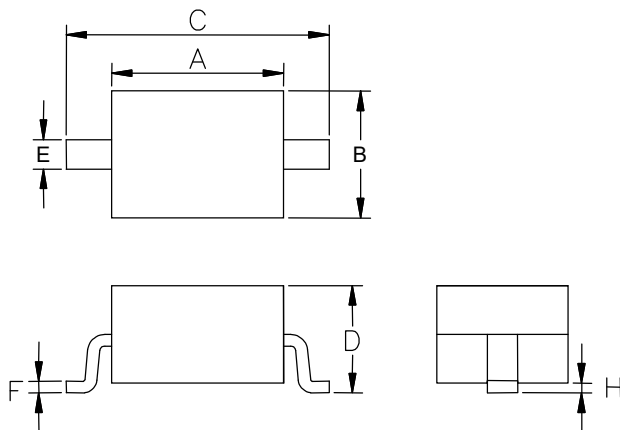


Figure 6. Junction Capacitance vs. Reverse Voltage



SOD323 Package Outline

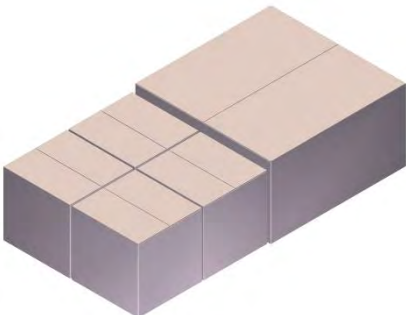


DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.50	1.80	0.060	0.071
B	1.20	1.40	0.045	0.054
C	2.30	2.70	0.090	0.107
D	0.00	1.10	0.00	0.043
E	0.30	0.40	0.012	0.016
F	0.10	0.25	0.004	0.010
H	-	0.10	-	0.004

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	1 Carton=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.