

## FEATURES

- ✧ Ultra low leakage: nA level.
- ✧ Operating voltage: 4.5V.
- ✧ Low clamping voltage.
- ✧ Complies with following standards:
  - IEC 61000-4-2 (ESD) immunity test
    - Air discharge:  $\pm 30\text{kV}$
    - Contact discharge:  $\pm 30\text{kV}$
  - IEC61000-4-5 (Lightning) 165A (8/20 $\mu\text{s}$ ).
- ✧ RoHS Compliant.

## APPLICATIONS

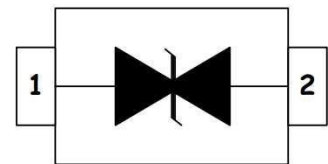
- ✧ Mobile Phones and Accessories.
- ✧ Battery Protection.
- ✧ USB VBus.
- ✧ Power Line Protection.
- ✧ Hand Held Portable Applications.

## MECHANICAL CHARACTERISTICS

- ✧ Package: SOD-323.
- ✧ Lead Finish: Lead Free.
- ✧ UL Flammability Classification Rating 94V-0.
- ✧ Quantity Per Reel: 3,000pcs.
- ✧ Reel Size: 7 inch.



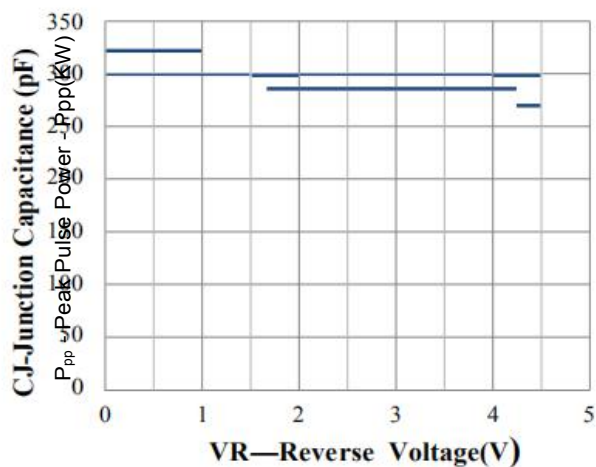
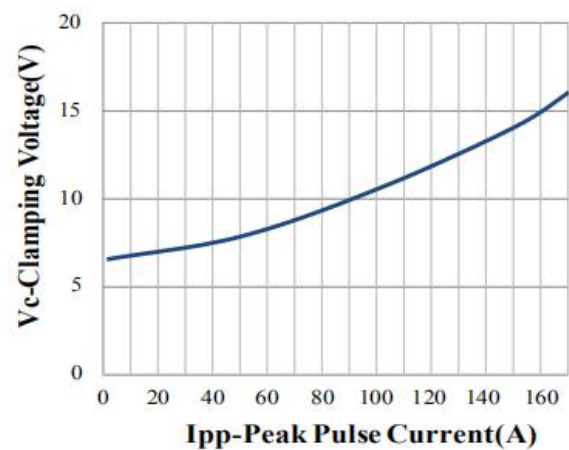
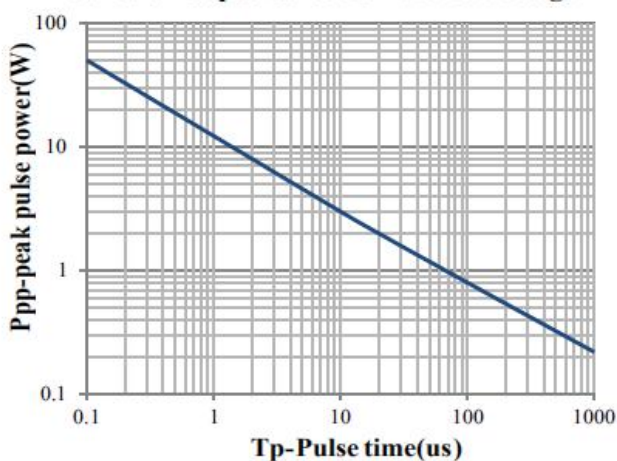
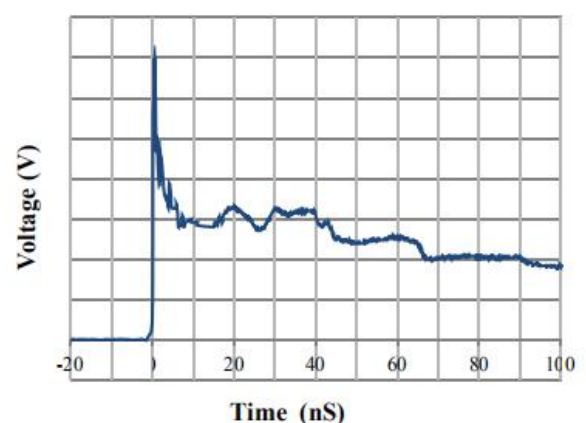
SOD-323

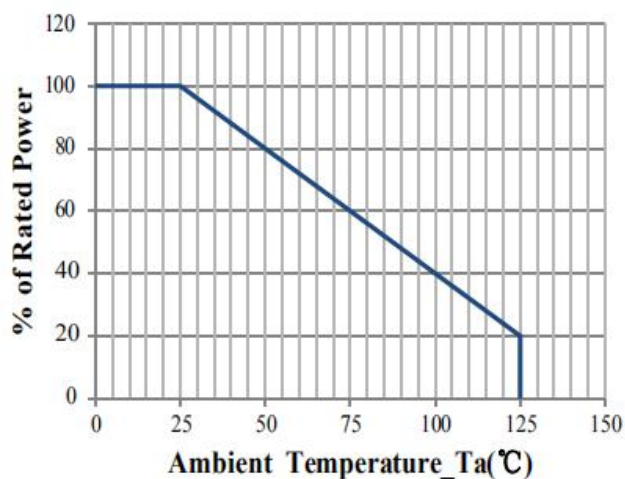


Bidirectional

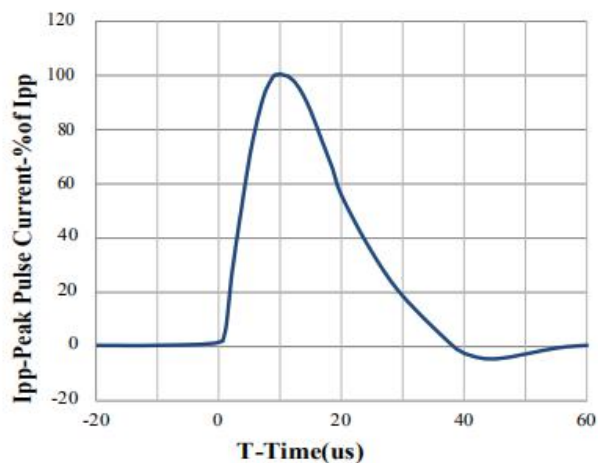
**ABSOLUTE MAXIMUM RATING (TA=25℃)**

Rating	Symbol	Value	Units
Peak Pulse Power (8/20μs)	P <sub>pp</sub>	2500	W
ESD per IEC 61000-4-2 (Air)	V <sub>ESD</sub>	± 30	Kv
ESD per IEC 61000-4-2 (Contact)		± 30	
Operating Temperature Range	T <sub>J</sub>	-55 to +125	℃
Storage Temperature Range	T <sub>STJ</sub>	-55 to +150	℃

**TYPICAL CHARACTERISTICS**

**Junction Capacitance vs. Reverse Voltage**

**Clamping Voltage vs. Peak Pulse Current**

**Peak Pulse Power vs. Pulse Time**

**IEC61000-4-2 Pulse Waveform**

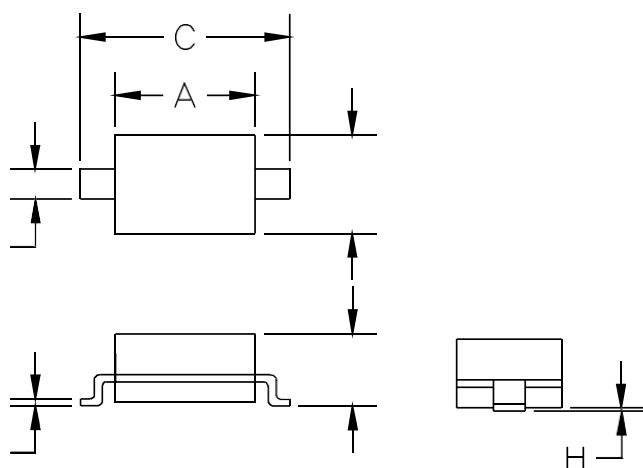


Power Derating Curve

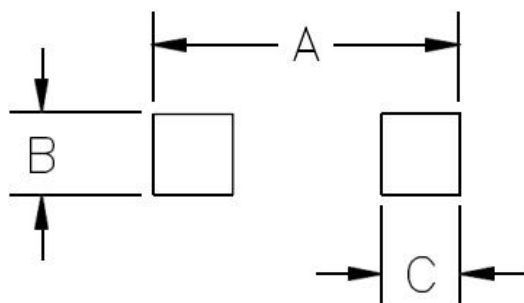


8 X 20us Pulse Waveform

### SOD323PACKAGE OUTLINE & DIMENSIONS



SYM	DIMENSIONS			
	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	-	1.10	-	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



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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