

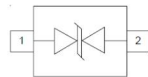
### Features

- ◇ 350 W (8x20us) Peak Pulse Power ◇
- Low Clamping Voltage
- ◇ SOD-323 Package
- ◇ RoHS Compliant
- ◇ Matte Tin Lead finish (Pb-Free) ◇
- Protect One I/O or Power Line
- ◇ Meet IEC61000-4-2 Level 4:  
 Contact Discharge > 30 kV  
 Air Discharge > 30kV

Circuit Diagram



PIN Diagram



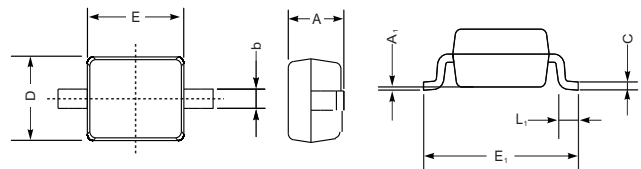
### Applications

- ◇ Smart Phones
- ◇ Laptop Computers
- ◇ Portable Electronics

### Ordering information

Device	Package	Making
SD15C	SOD-323	L

### SOD323



UNIT		A	C	D	E	E <sub>1</sub>	b	L <sub>1</sub>	A <sub>1</sub>
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

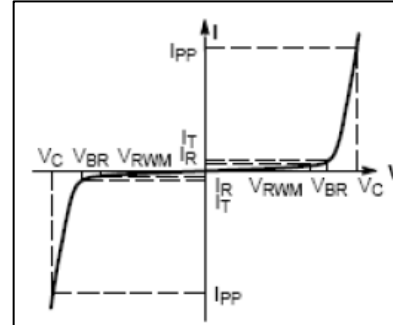
### Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
TJ	Junction Temperature	-55 to +150	°C
TSTG	Storage Temperature	-55 to +150	°C
Ipp Max	Maximum Peak Pulse Current	10	A
PPK	Peak Pulse Power	350	W

# SD15C

## Electrical Parameter

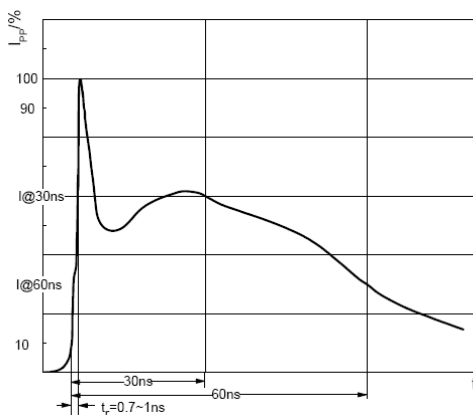
Symbol	Parameter
$V_C$	Clamping Voltage @ $I_{PP}$
$I_{PP}$	Peak Pulse Current
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
$I_R$	Reverse Leakage Current @ $V_{RWM}$
$V_{RWM}$	Reverse Standoff Voltage



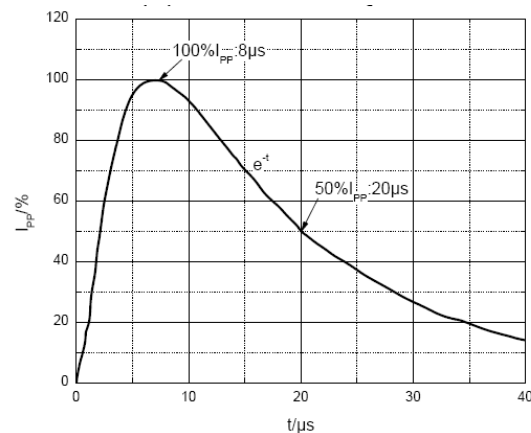
V-I characteristics for a Bi-directional TVS

## Electrical Characteristics (Ta = 25°C)

PSD03C						
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{RWM}$	Reverse Working Peak Voltage				15	V
$V_{BR}$	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	15.5	17	19	V
$I_R$	Reverse Leakage Current	$V_{RWM} = 15\text{V}$			1	$\mu\text{A}$
$V_C$	Clamping Voltage	$I_{PP} = 1\text{A}$ (8/20 $\mu\text{s}$ )		19	25	V
$V_C$	Clamping Voltage	$I_{PP} = 10\text{A}$ (8/20 $\mu\text{s}$ )		29	40	V
$I_{PP}$	Peak Pulse Current	$V_R = 0\text{V}$ , $f = 1\text{MHz}$			10	A
$C_J$	Capacitance	$V_R = 0\text{V}$ , $f = 1\text{MHz}$		68		pF



ESD pulse waveform according to IEC61000-4-2



8/20 $\mu\text{s}$  pulse waveform according to IEC 61000-4-5

RATING AND CHARACTERISTIC CURVES (SD15C)

