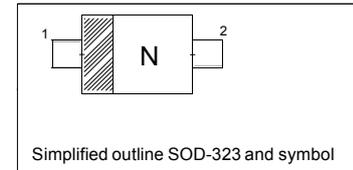


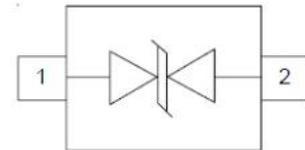
STANDARD CAPACITANCE TVS ARRAY
Features

- ◇ 220W (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 > 20 kV
 - Air Discharge > 20 kV

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode


Circuit Diagram

PIN Diagram

Applications

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

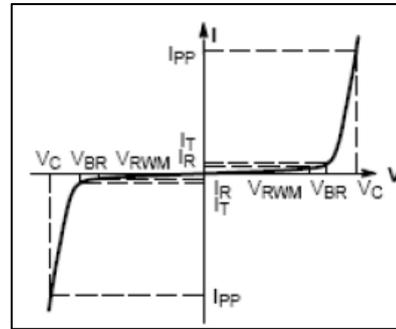
Ordering information

Device	Package	Reel Size	Qty / Reel
PSD18C	SOD-323	7 inch	3000

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	4.5	A
PPK	Peak Pulse Power	220	W

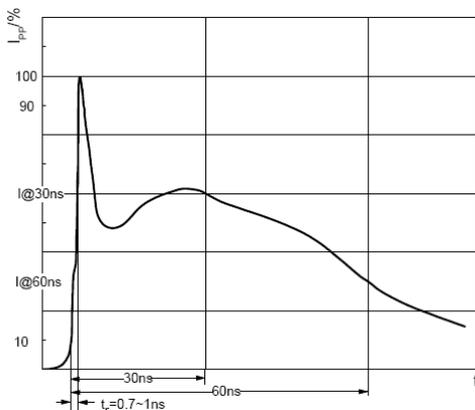
Symbol	Parameter
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Peak Pulse Current
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_R	Reverse Leakage Current @ V_{RWM}
V_{RWM}	Reverse Standoff Voltage



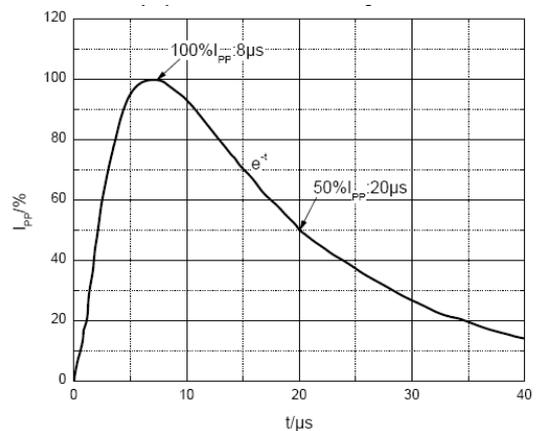
V-I characteristics for a Bi-directional TVS

Electrical Characteristics (Ta = 25°C)

PSD18C						
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				18	V
VBR	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	19.8	21	24	V
IR	Reverse Leakage Current	$V_{RWM} = 18\text{V}$			1	μA
VC	Clamping Voltage	$I_{PP} = 4.5\text{A} (8/20\mu\text{s})$			50	V
Ipp	Peak Pulse Current	$t_p = 8/20\mu\text{s}$			4.5	A
CJ	Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$		26.5		pF



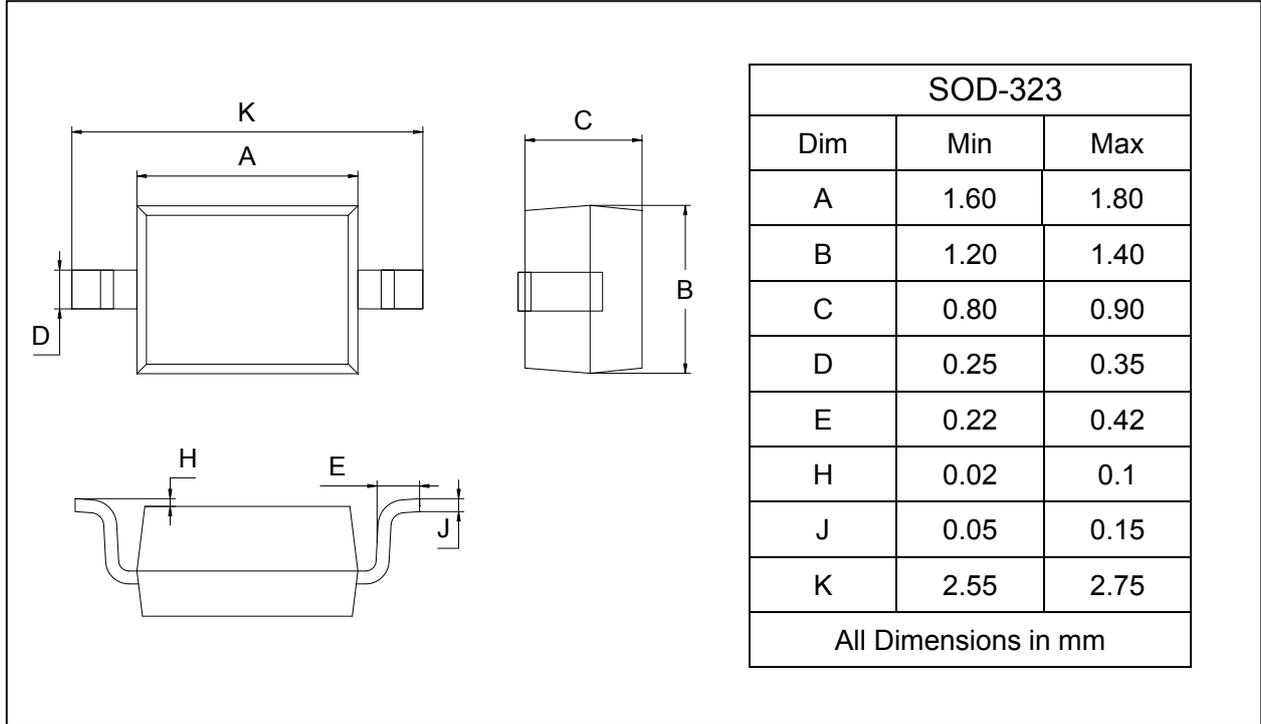
ESD pulse waveform according to IEC61000-4-2



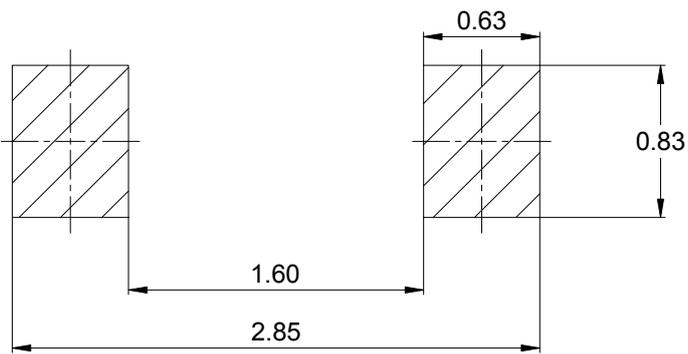
8/20 μs pulse waveform according to IEC 61000-4-5

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm