

STANDARD CAPACITANCE TVS ARRAY

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

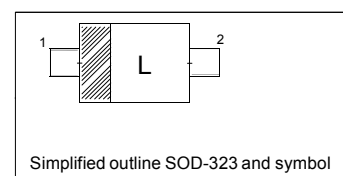
◇ Meet IEC61000-4-2 Level 4:

Contact Discharge > 30 kV

Air Discharge > 30kV

PINNING

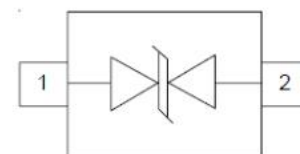
PIN	DESCRIPTION
1	Cathode
2	Anode



Circuit Diagram



PIN Diagram



Applications

◇ Smart Phones

◇ Laptop Computers

◇ Portable Electronics

Ordering information

Device	Package	Reel Size	Qty / Reel
PSD15C	SOD-323	7 inch	3000

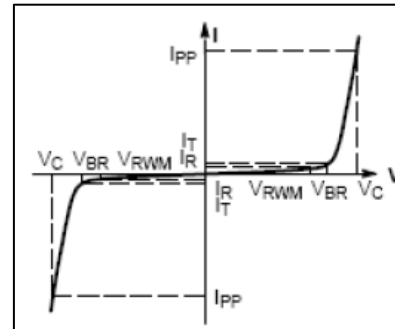
Maximum Ratings (Ta = 25°C)

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

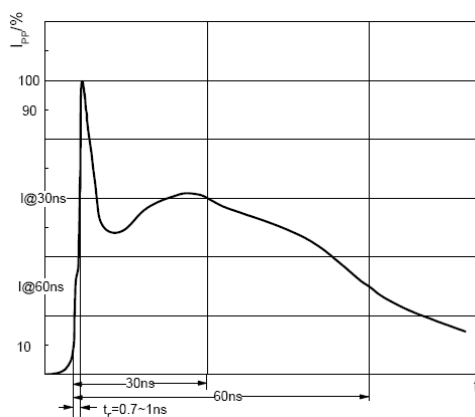
Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				15	V
VBR	Reverse Breakdown Voltage	IT = 1mA	15.5	17	19	V
IR	Reverse Leakage Current	VRWM = 15 V			1	μA
VC	Clamping Voltage	IPP = 1 A (8/20μs		19	25	V
VC	Clamping Voltage	)IPP = 10 A (8/20		29	40	V
Ipp	Peak Pulse Current	μs) tp = 8/20μs			10	A
CJ	Capacitance	VR = 0V, f = 1MHz		68		pF

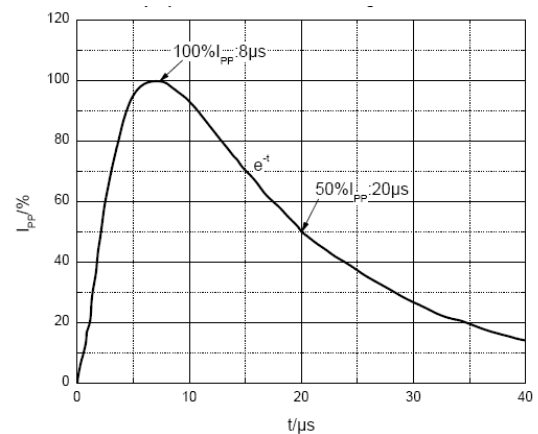
Symbol	Parameter
VC	Clamping Voltage @ IPP
IPP	Peak Pulse Current
VBR	Breakdown Voltage @ IT
IT	Test Current
IR	Reverse Leakage Current @ VRWM
VRWM	Reverse Standoff Voltage



V-I characteristics for a Bi-directional TVS

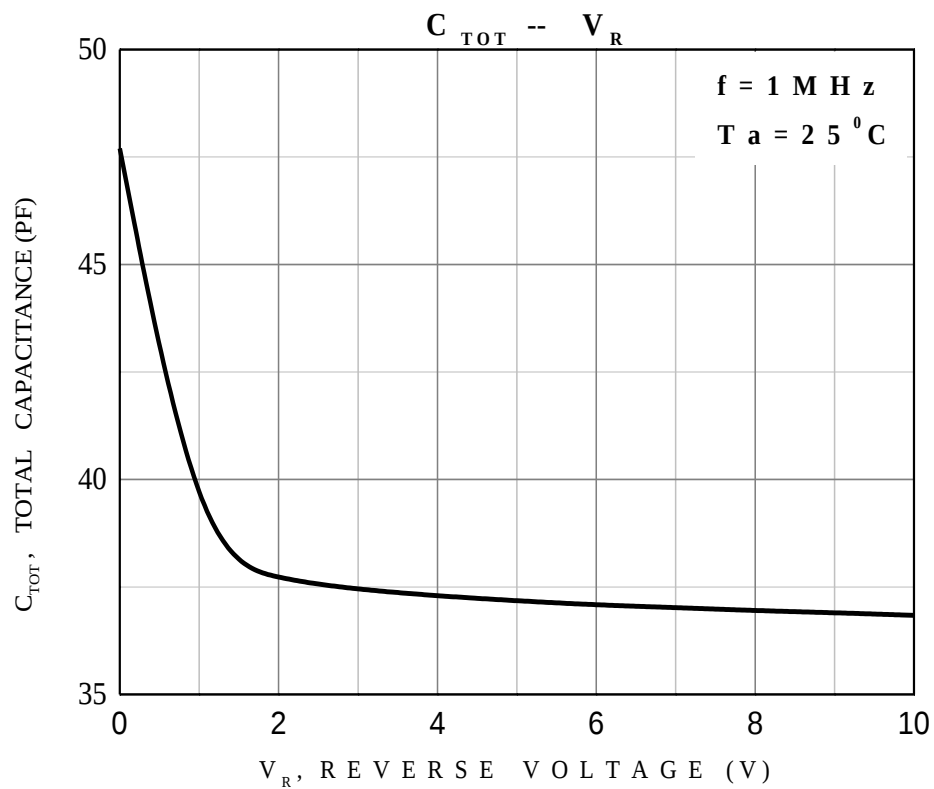
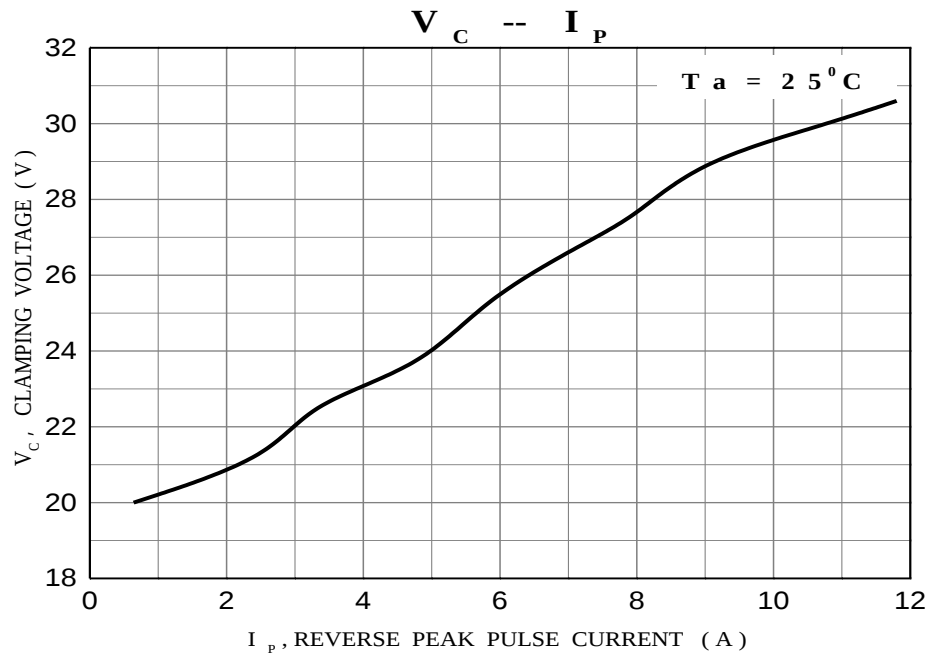


ESD pulse waveform according to IEC61000-4-2



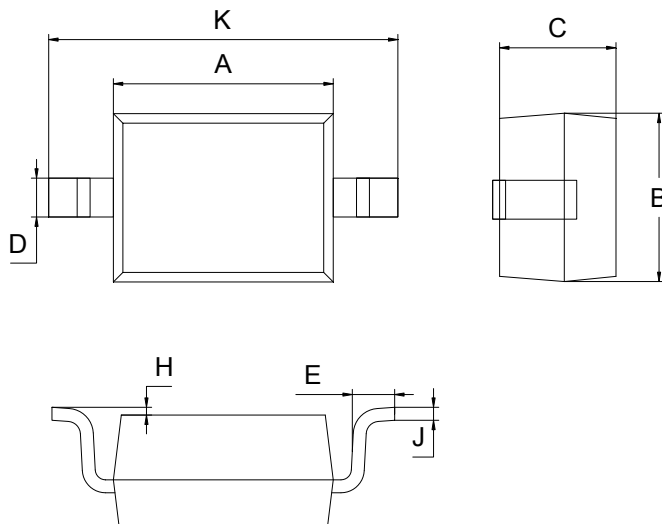
8/20μs pulse waveform according to IEC 61000-4-5

Typical Characteristics



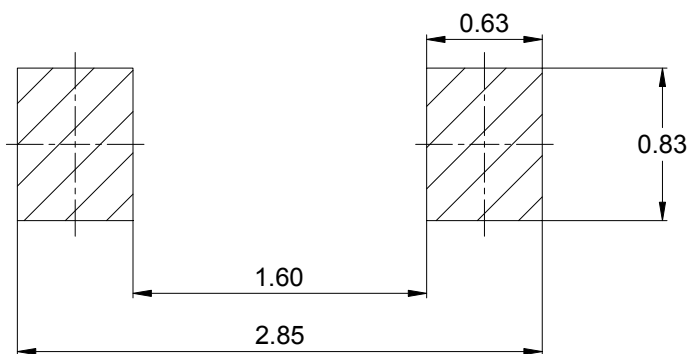
Plastic surface mounted package

SOD-323



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.1
J	0.05	0.15
K	2.55	2.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm