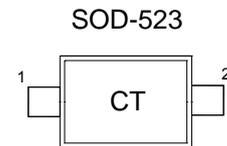
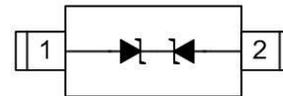


Transient Voltage Suppressors for ESD Protection

Features

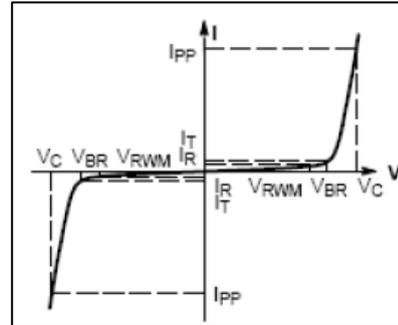
- ◇ 60W (8/20 μ s) Peak Pulse Power
- ◇ Low Capacitance ESD Protection
- ◇ SOD-523 Package
- ◇ RoHS Compliant
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Protect One High Speed Data Line
- ◇ Meet IEC61000-4-2 Level 4:
 - Contact Discharge > 25kV
 - Air Discharge > 25kV


PIN Diagram

Absolute Maximum Ratings (TA=25°C unless otherwise specified)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	60	W
IPP	Peak Pulse Current	5	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	25	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	25	kV
TJ	Junction Temperature	-55 to +150	°C
TSTG	Storage Temperature	-55 to +150	°C

ELECTRICAL PARAMETER

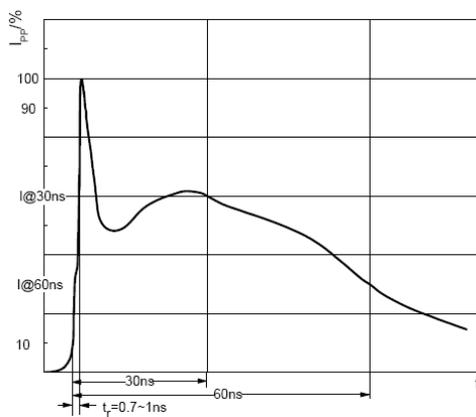
Symbol	Parameter
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Peak Pulse Current
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_R	Reverse Leakage Current @ V_{RWM}
V_{RWM}	Reverse Standoff Voltage



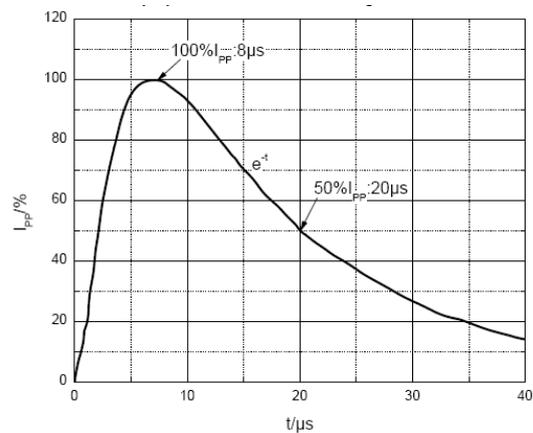
V-I characteristics for a Bi-directional TVS

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{RWM}	Reverse Working Peak Voltage				3.3	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	4		6.3	V
I_R	Reverse Leakage Current	$V_{RWM} = 3.3\text{V}$			1	μA
V_C	Clamping Voltage	$I_{PP} = 4.5\text{A} (8/20\mu\text{s})$			15	V
V_C	Clamping Voltage	$I_{PP} = 5\text{A} (8/20\mu\text{s})$			16	V
C_J	Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$		9.6	15	pF

ESD standards compliance



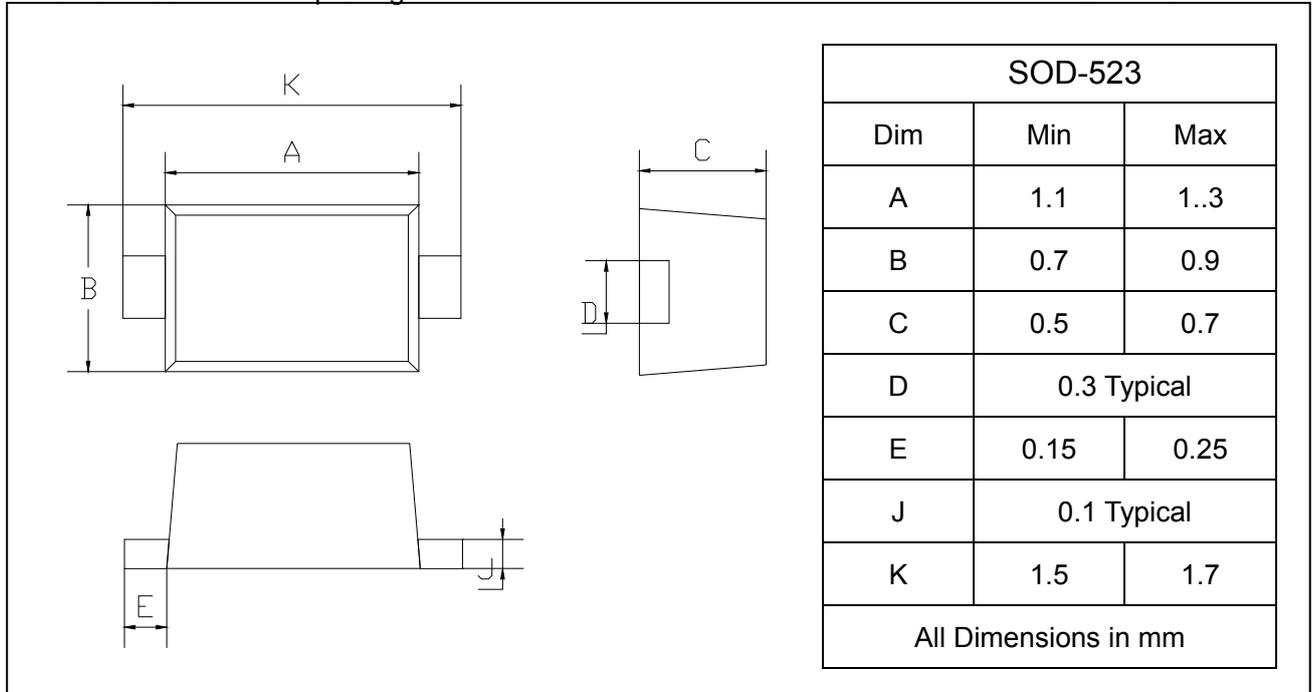
ESD pulse waveform according to IEC61000-4-2



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

Plastic surface mounted package

SOD-523



SOLDERING FOOTPRINT

