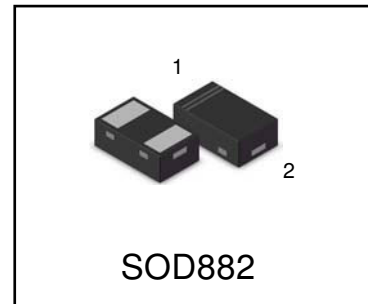


# LTVS8H4.5CT5G

# LTVS8H4.5CT5G

### Features

- Reverse stand-off voltage:  $\pm 4.5V$  Max
- Low clamping voltage
- Complies with IEC 61000-4-2 standards:  
     Air discharge:  $\pm 30kV$   
     Contact discharge:  $\pm 30kV$
- RoHS Compliant



### Ordering information

Device	Marking	Shipping
LTVS8H4.5CT5G	B7	10000/Tape&Reel

### Absolute Maximum Ratings ( $T_A=25^{\circ}C$ unless otherwise specified)

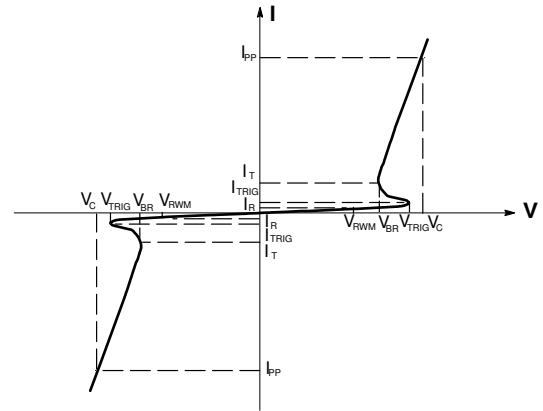
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 $\mu$ s)	Ppk	360	W
Peak Pulse Current (8/20 $\mu$ s)	I <sub>PP</sub>	50	A
Operating Temperature Range	T <sub>J</sub>	-55 to +125	$^{\circ}C$
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	$^{\circ}C$

# LTVS8H4.5CT5G

## ELECTRICAL CHARACTERISTICS

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

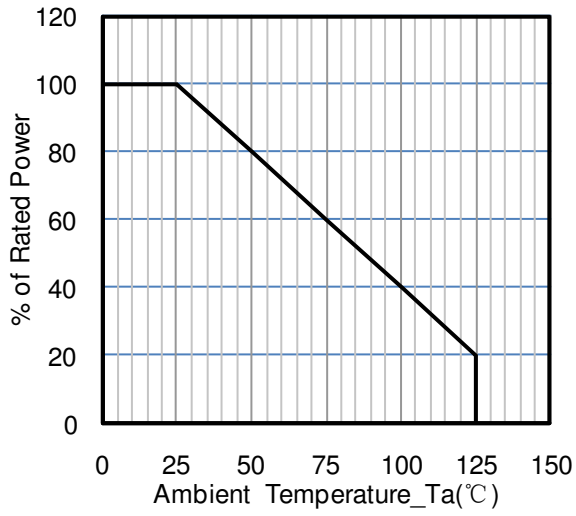
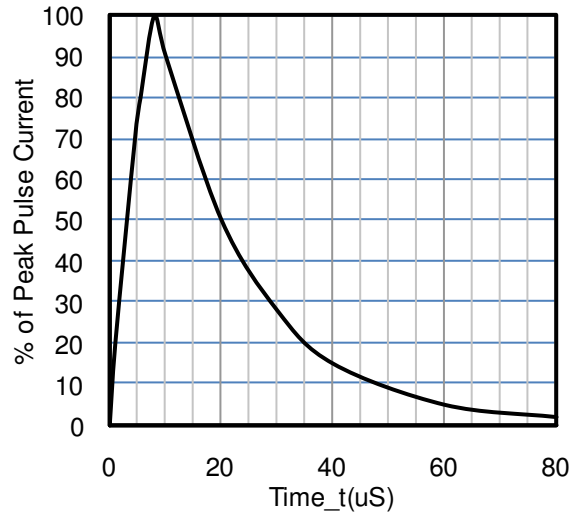
Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Reverse standoff voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
$V_{TRIG}$	Reverse trigger voltage
$I_{TRIG}$	Reverse trigger current



Bi-Directional TVS

## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise specified)

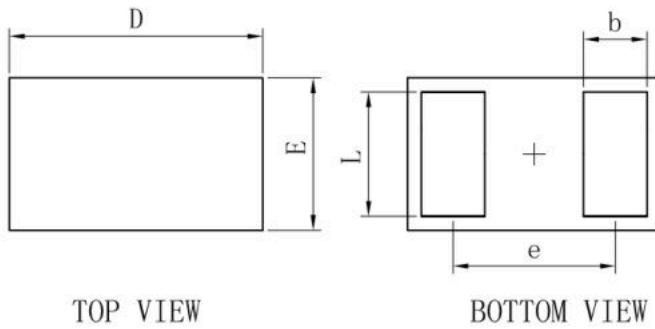
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Breakdown voltage	$V_{BR}$	4.8		6	V	$I_R = 1\text{mA}$
Reverse Leakage Current	$I_{RM}$			0.2	$\mu\text{A}$	$V_{RM} = 5\text{V}$
Clamping Voltage	$V_C$			12	V	$I_{PP} = 30\text{A}$ (8 x 20 $\mu\text{s}$ pulse)
Junction Capacitance	$C_J$			80	pF	$V_R = 0\text{V}$ , $f = 1\text{MHz}$

**LTVS8H4.5CT5G****Typical Performance Characteristics ( $T_A=25^\circ\text{C}$  unless otherwise Specified)****Fig1. Power Derating Curve****Fig2. 8 X 20uS Pulse Waveform**

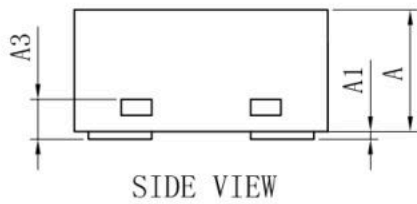
# LTVS8H4.5CT5G

## OUTLINE AND DIMENSIONS

### SOD882

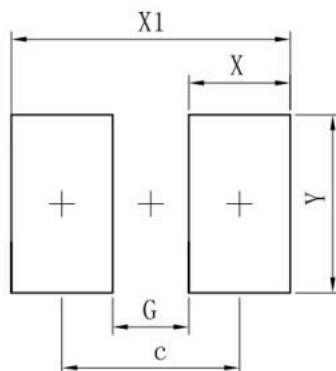


SOD882			
Dim	Min	Typ	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	0.64	-
L	0.44	0.49	0.54
b	0.20	0.25	0.30
A	0.43	0.48	0.53
A1	0	-	0.05
A3	0.127REF.		
All Dimensions in mm			



## SOLDERING FOOTPRINT

### SOD882



Dimensions	(mm)
c	0.70
G	0.30
X	0.40
X1	1.10
Y	0.70