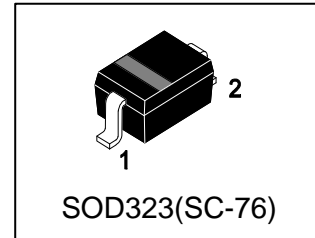


LTVS3H4.5CAT1G

LTVS3H4.5CAT1G

Features

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



Ordering information

Device	Marking	Shipping
LTVS3H4.5CAT1G	AT	3000/Tape&Reel

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

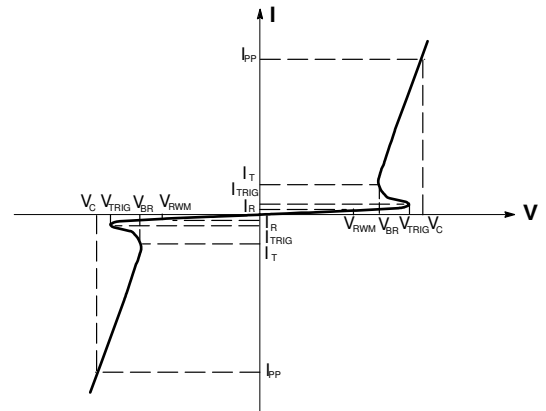
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	Ppk	2000	W
Peak Pulse Current (8/20 μs)	I _{PP}	160	A
Operating Temperature Range	T _J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T _{stg}	-55 to +150	$^\circ\text{C}$

LTVS3H4.5CAT1G

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
Reverse Working Voltage	V_{RWM}			4.5	V	
Breakdown Voltage	V_{BR}	4.7	5.2	6.5	V	$I_T = 1\text{mA}$
Reverse Leakage Current	I_R			0.5	μA	$V_R = 4.5\text{V}$
Clamping Voltage	V_C			7	V	$I_{PP} = 1\text{A}$ (8 x 20 μs pulse)
				11	V	$I_{PP} = 100\text{A}$ (8 x 20 μs pulse)
				15.6	V	$I_{PP} = 160\text{A}$ (8 x 20 μs pulse)
Junction Capacitance	C_J		450	500	pF	$V_R = 0\text{V}$, $f = 1\text{MHz}$

LTVS3H4.5CAT1G

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

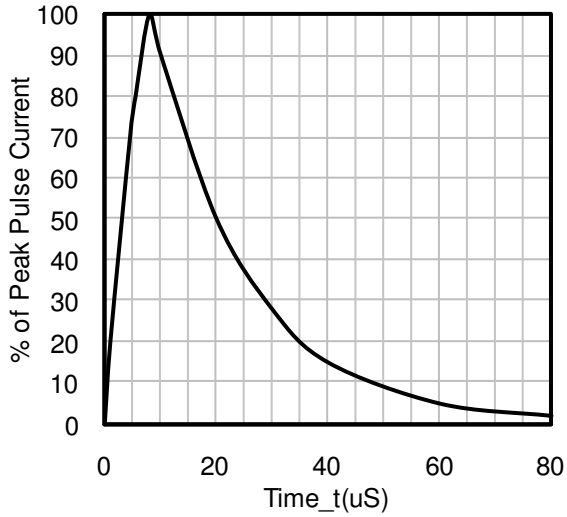


Fig 1. 8 X 20uS Pulse Waveform

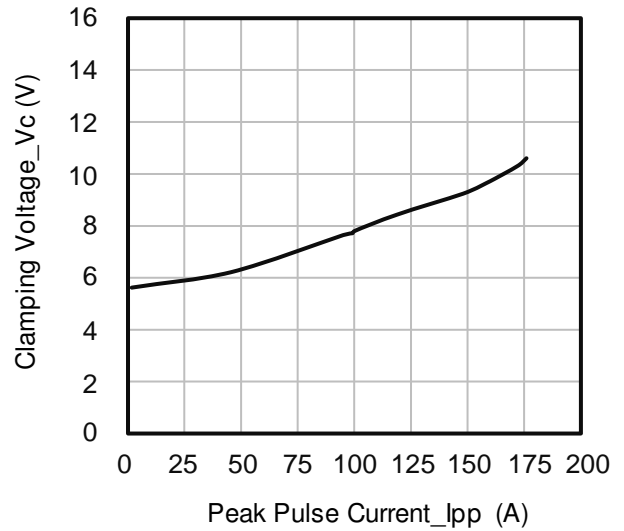


Fig 2. Clamping Voltage vs. Peak Pulse Current

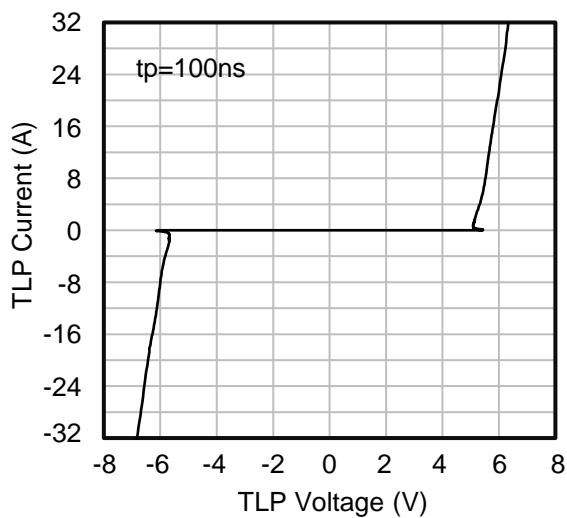
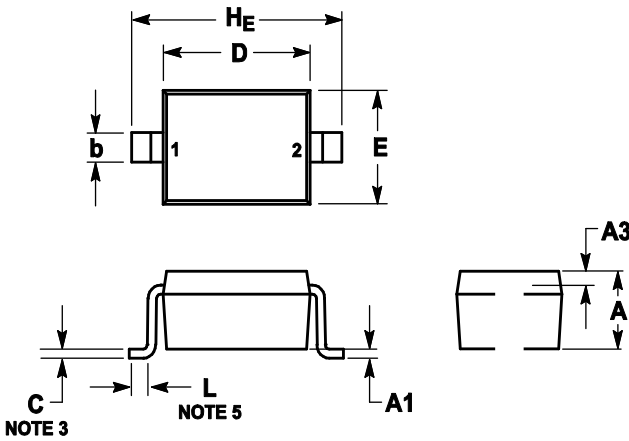


Fig 3. TLP Measurement

OUTLINE AND DIMENSIONS

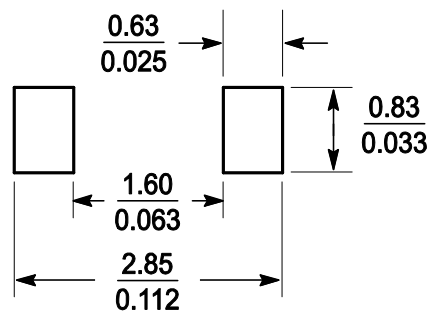
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.8	0.9	1	0.031	0.035	0.04
A1	0	0.05	0.1	0	0.002	0.004
A3	0.15REF			0.006REF		
b	0.25	0.32	0.4	0.01	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.6	1.7	1.8	0.062	0.066	0.07
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.3	2.5	2.7	0.09	0.098	0.105

SOLDERING FOOTPRINT



DISCLAIMER

- Before you use our Products, you are requested to carefully read this document and fully understand its contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any LRC's Products against warning, caution or note contained in this document.
- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)