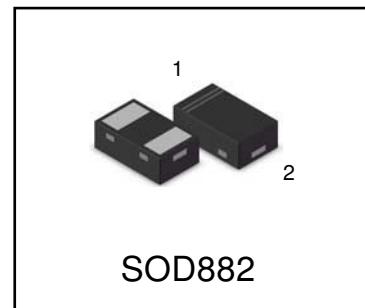


LTVS8H5.0CAT5G

LTVS8H5.0CAT5G

Features

- Reverse stand-off voltage: $\pm 5.0V$ 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
LTVS8H5.0CAT5G	S9	10000/Tape&Reel

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

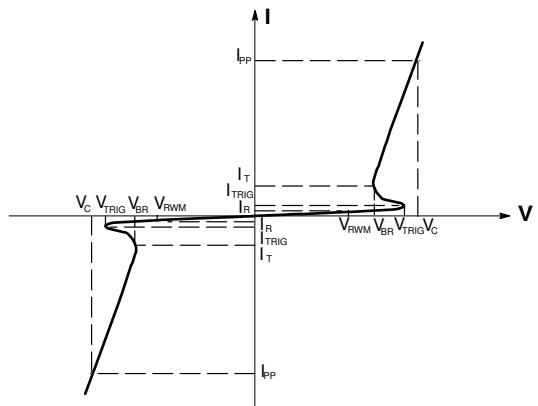
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	Ppk	500	W
Peak Pulse Current (8/20 μs)	IPP	48	A
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

LTVS8H5.0CAT5G

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}			5	V	
Breakdown Voltage	V_{BR}	5.3		6.5	V	$I_R = 1\text{mA}$
Reverse Leakage Current	I_R			0.3	μA	$V_{RM}= 5.0\text{V}$
Clamping Voltage	V_C			7	V	$I_{PP} = 10 \text{ A (8 x 20}\mu\text{s pulse)}$
				9	V	$I_{PP} = 30 \text{ A (8 x 20}\mu\text{s pulse)}$
				10	V	$I_{PP} = 48 \text{ A (8 x 20}\mu\text{s pulse)}$
ESD Clamping Voltage	V_{Clamp}		6.8		V	IEC 61000-4-2 $\pm 8\text{kV}$ ($I_{TLP} = 16\text{A}$), Contact mode, $T=25^\circ\text{C}$
Junction Capacitance	C_J		100		pF	$V_R = 0\text{V, f} = 1\text{MHz}$

LTVS8H5.0CAT5G

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

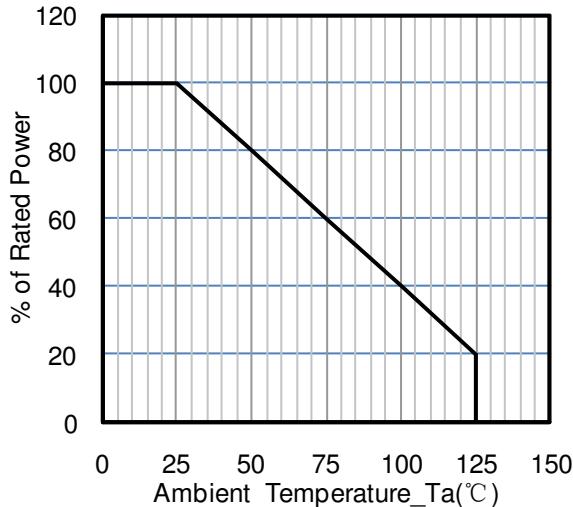


Fig1. Power Derating Curve

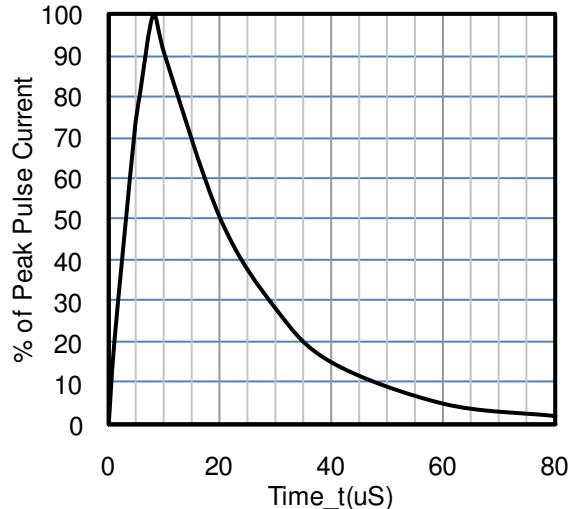


Fig2. 8 X 20uS Pulse Waveform

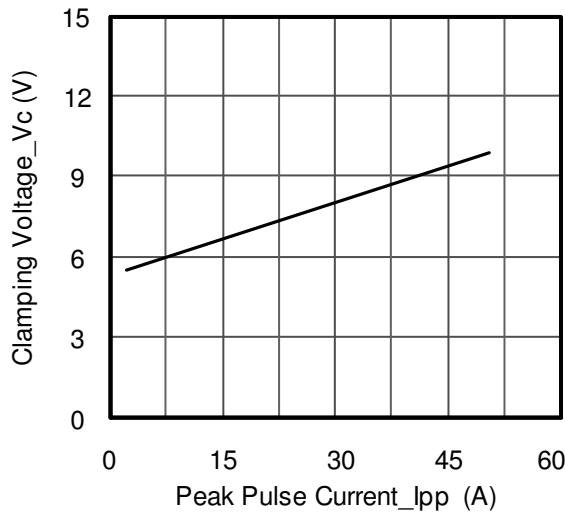


Fig3. Clamping Voltage vs. Peak Pulse Current

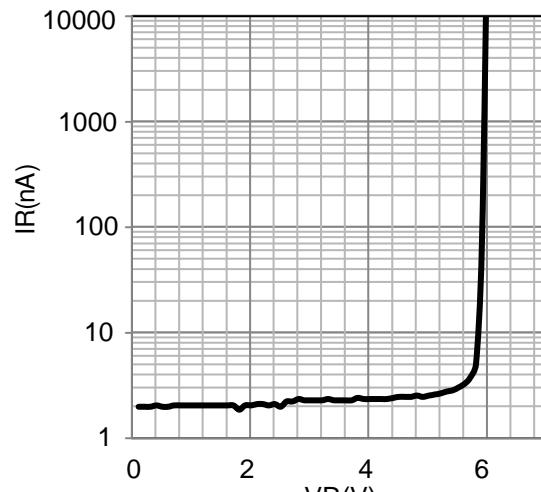


Fig4. IR&VR

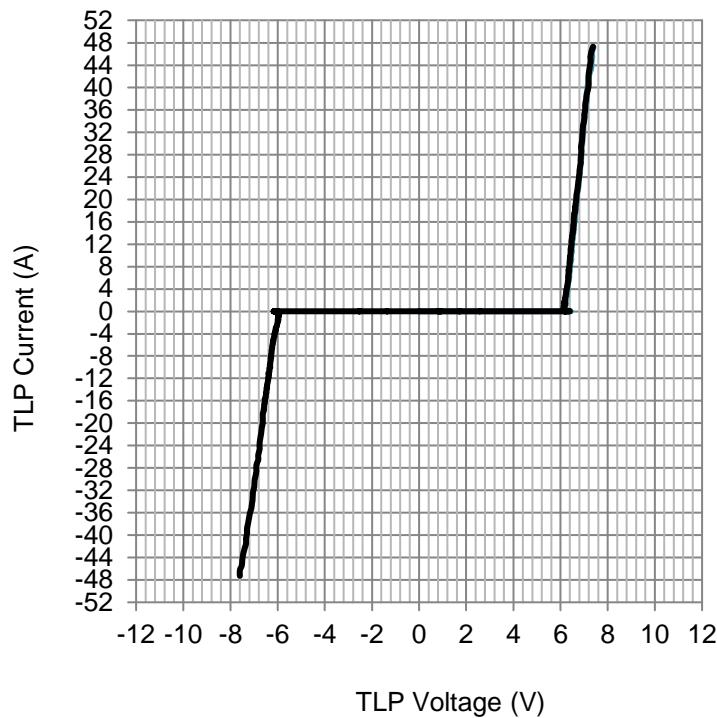
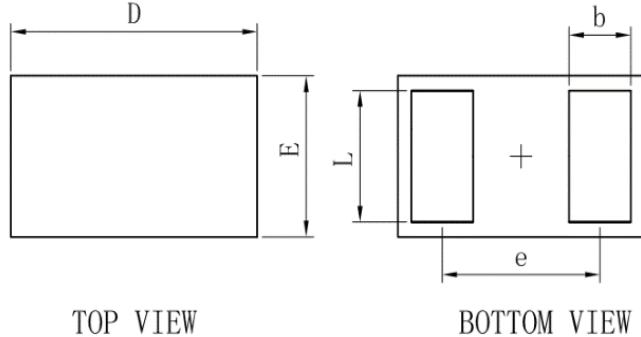


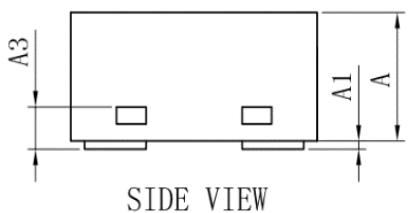
Fig 5. TLP Measurement

LTV8H5.0CAT5G

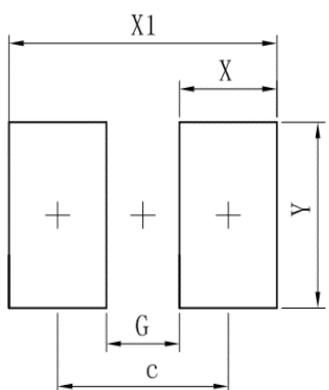
OUTLINE AND DIMENSIONS



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



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



LESHAN RADIO COMPANY, LTD.

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