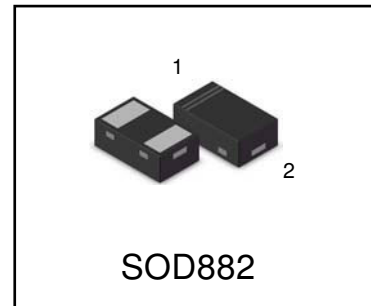


LTVS8H5.0CAT5G

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)

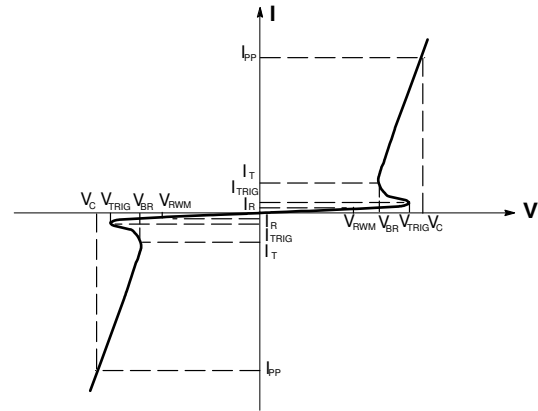
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	Ppk	500	W
Peak Pulse Current (8/20 μs)	I _{PP}	48	A
Operating Temperature Range	T _J	-55 to +125	$^{\circ}C$
Storage Temperature Range	T _{stg}	-55 to +150	$^{\circ}C$

LTVS8H5.0CAT5G

ELECTRICAL CHARACTERISTICS

(T_A = 25°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°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 = 1mA
Reverse Leakage Current	I _R			0.3	μA	V _{RM} = 5.0V
Clamping Voltage	V _C			7	V	I _{PP} = 10 A (8 x 20μs pulse)
				9	V	I _{PP} = 30 A (8 x 20μs pulse)
				10	V	I _{PP} = 48A (8 x 20μs pulse)
ESD Clamping Voltage	V _{Clamp}		6.8		V	IEC 61000-4-2 ±8kV(I _{TLP} =16A), Contact mode, T=25°C
Junction Capacitance	C _J		100		pF	V _R = 0V, f = 1MHz

LTVS8H5.0CAT5G

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

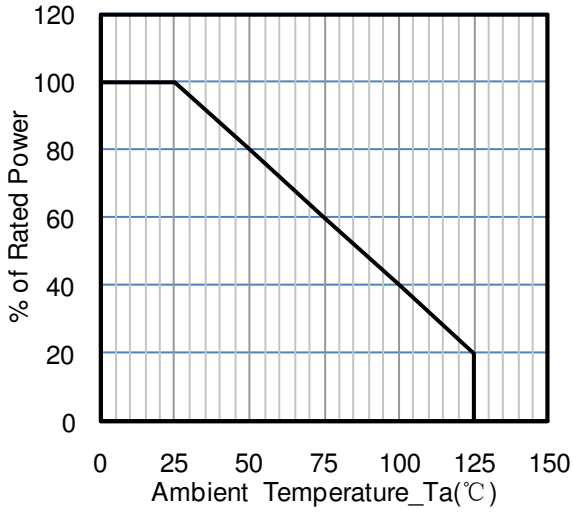


Fig1. Power Derating Curve

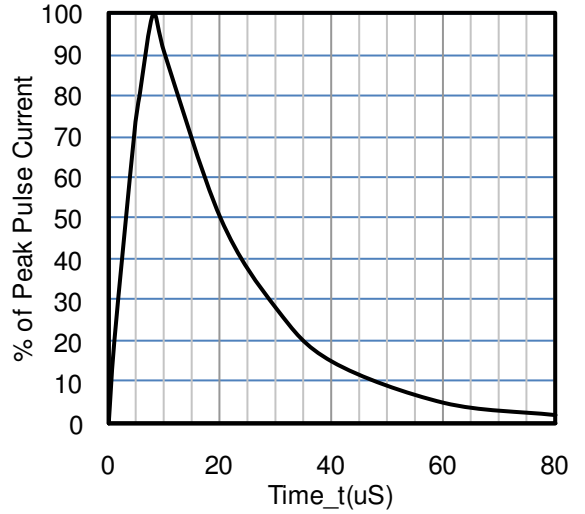


Fig2. 8 X 20uS Pulse Waveform

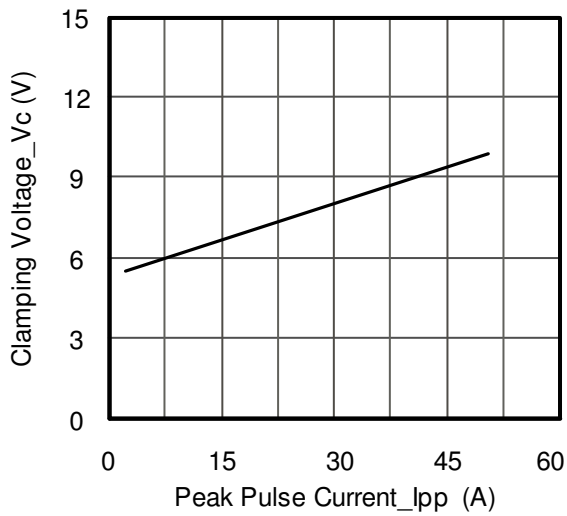


Fig3. Clamping Voltage vs. Peak Pulse Current

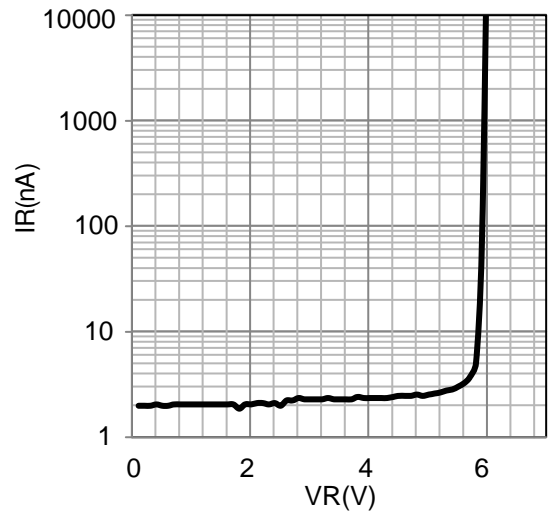
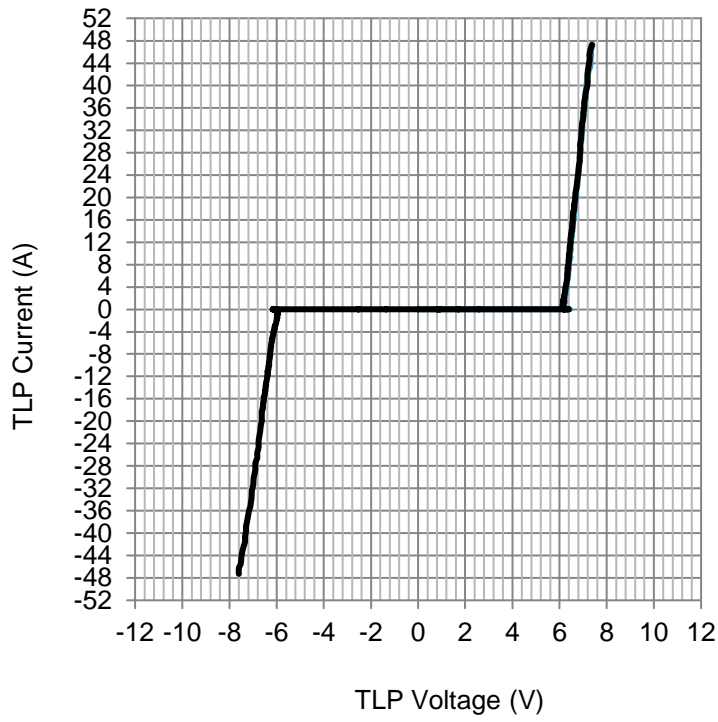
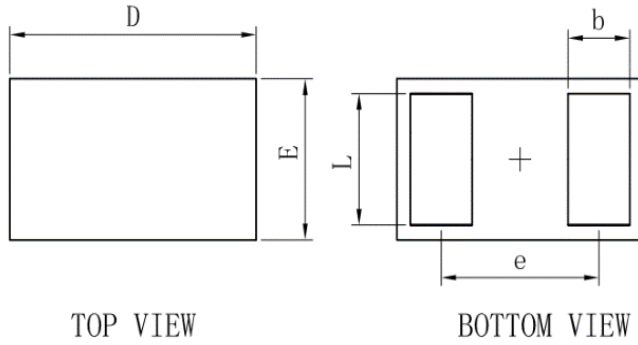


Fig4. IR&VR

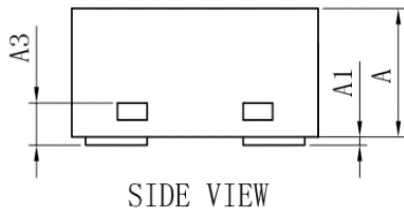
LTVS8H5.0CAT5G**Fig 5. TLP Measurement**

LTVS8H5.0CAT5G

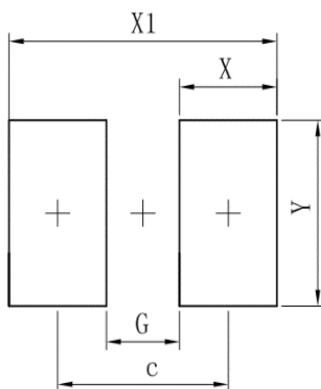
OUTLINE AND DIMENSIONS



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

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