

LESD8H6.3T5G

Transient Voltage Suppressors

Discription

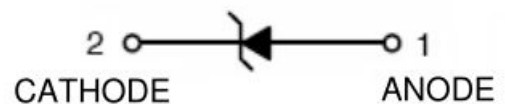
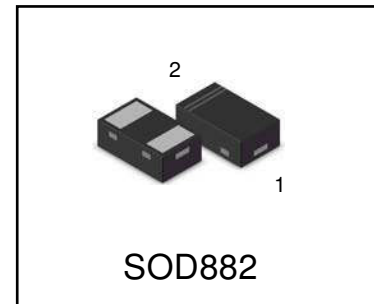
The ESD8H is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium.

Specification Features:

- Capacitance 230 pF
- Low Clamping Voltage
- Small Body Outline Dimensions:
0.039" x 0.024" (1.00 mm x 0.60 mm)
- Low Body Height: 0.020" (0.5 mm)
- Stand-off Voltage: 6.3 V
- Low Leakage
- Response Time is Typically < 1.0 ns
- IEC61000-4-2 Level 4 ESD Protection
- This is a Pb-Free Device

QUALIFIED MAX REFLOW TEMPERATURE: 260°C
Device Meets MSL 1 Requirements

LESD8H6.3T5G



Ordering information

Device	Marking	Shipping
LESD8H6.3T5G	8H	10000/Tape&Reel

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Contact Air		±30 ±30	kV
Total Power Dissipation on FR-5 Board (Note 1) @ T _A = 25°C	P _D	200	mW
Storage Temperature Range	T _{stg}	-55 to +150	°C
Junction Temperature Range	T _J	-55 to +125	°C
Lead Solder Temperature - Maximum (10 Second Duration)	T _L	260	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

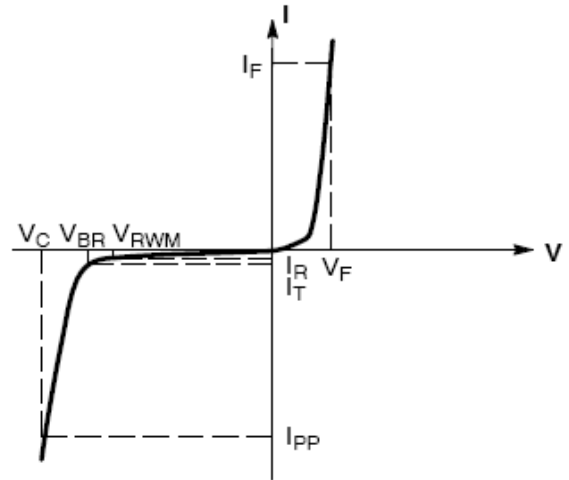
1. FR-5 = 1.0 x 0.75 x 0.62 in.

LESD8H6.3T5G

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}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
P_{pk}	Peak Power Dissipation
C	Capacitance @ $V_R = 0$ and $f = 1.0$ MHz



Uni-Directional TVS

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

Device	Device Marking	V_{RWM} (V)	I_R (μA) @ V_{RWM}	V_{BR} (V) @ $I_T = 1\text{mA}$ (Note 1)		V_C (V) @ $I_{PP} = 5\text{A}$	V_C (V) @ $I_{PP} = 20\text{A}$	I_{PP} (A) @ $t_p = 8/20\mu\text{s}$	V_F @ $I_F = 10\text{mA}$ (V)	C (pF)
		Max	Max	Min	Max	MAX	MAX	Max	Max	MAX
LESD8H6.3T5G	8H	6.3	1	7	8	8.6	10.7	21	1.1	230

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C .

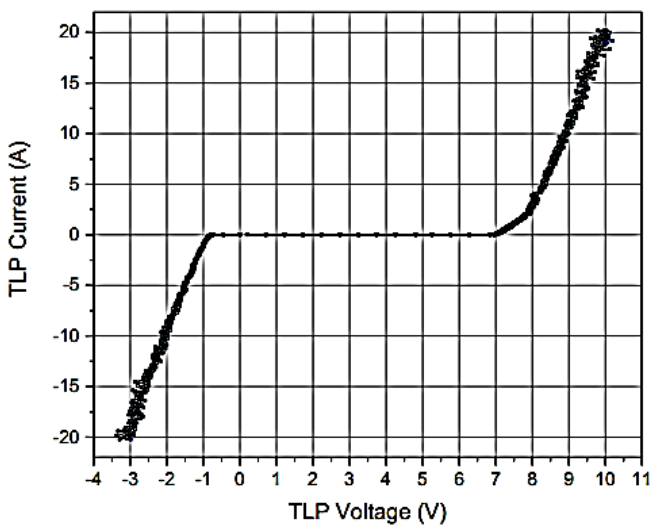


Figure 1. TLP Measurement

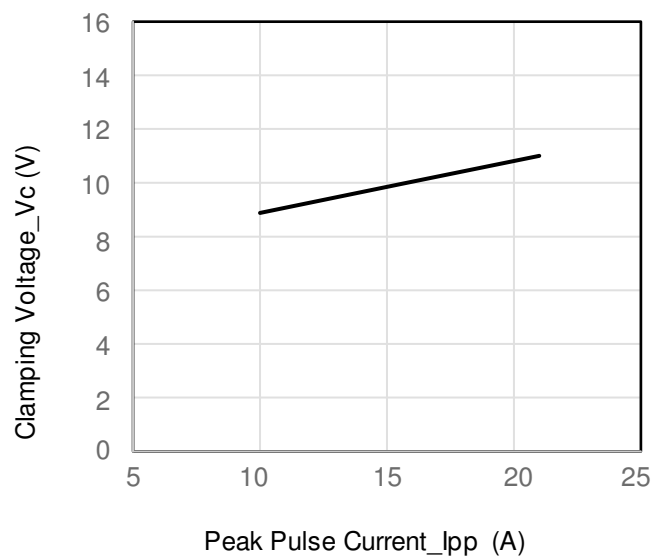


Figure 2. Clamping Voltage vs. Peak Pulse Current

LESD8H6.3T5G

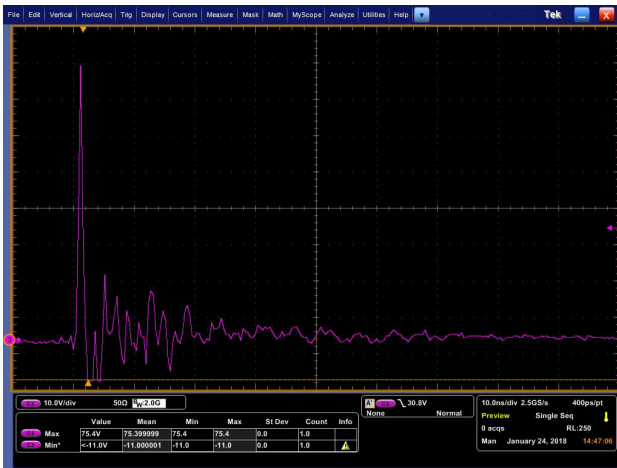


Figure 3.ESD Elamping Voltage Screenshot Positive 8 kV Econtact per IEE61000-4-2

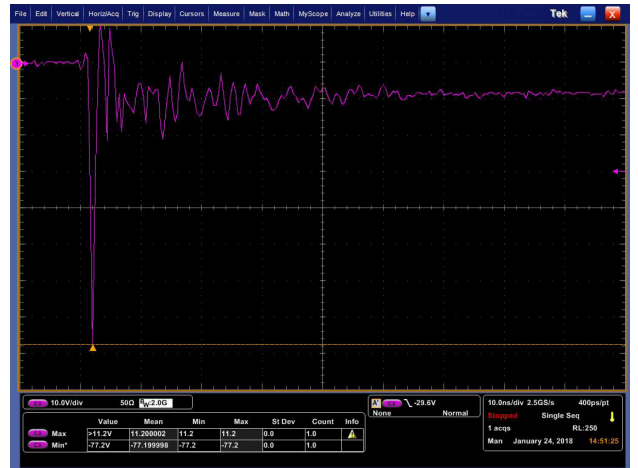
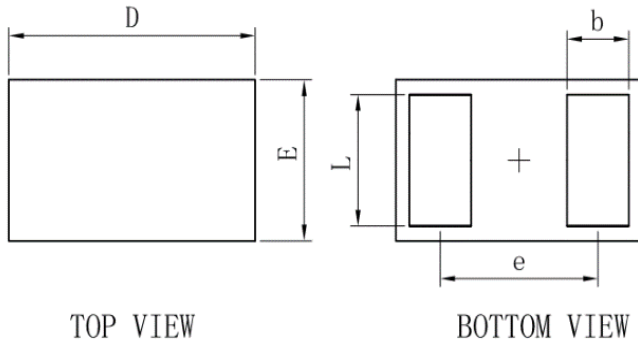


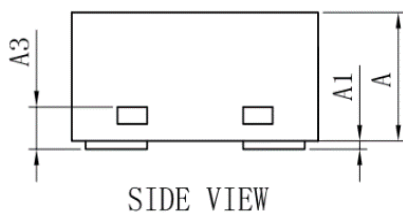
Figure 4.ESD Elamping Voltage Screenshot Negative 8 kV Econtact per IEE61000-4-2

LESD8H6.3T5G

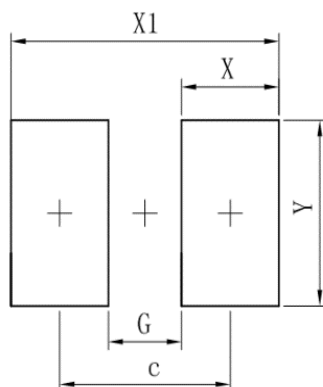
OUTLINE AND DIMENSIONS



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

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)