

## 1.Features

The LESD8D5.0CA is designed to protect voltage sensitive components from ESD. 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.

## 3.Features

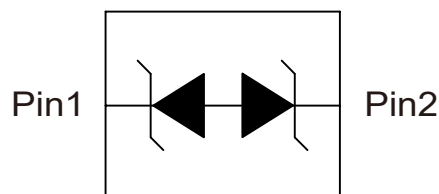
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model

## 2.Applications

- Cellular phones
- audio MP3 players
- Digital cameras
- Portable
- applications mobile telephone

- IEC61000-4-2 Level 4 ESD Protection
- These are Pb-Free Devices
- We declare that the material of product compliance with RoHS requirements.

## 4.Pinning information



**SOD-882**



## 5. Absolute Maximum Ratings

Parameter	Symbol	Value	Units
IEC 61000-4-2 (ESD)	Air discharge Contact discharge	±25	kV
		±20	kV
Total Power Dissipation on FR-5 Board (Note 1) @ $T_A=25^{\circ}\text{C}$	$P_D$	200	mW
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	$^{\circ}\text{C}$
Lead Solder Temperature – Maximum (10 Second Duration)	$T_L$	260	$^{\circ}\text{C}$

### Notes:

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating 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\*0.75\*0.62 in.



## 6. Electrical Characteristics

Device	$V_{RWM}$ (V)	$I_{R1}(\mu A)$ @ $V_{RWM}$	$I_{R2}(\mu A)$ @ $V_R=3.5V$	$V_{BR}(V)$ @ $I_T$ (Note 2)		$I_T$	$V_C(V)$ @ $I_{PP}=1A$ (Note 3)	$V_C(V)$ @ MAX $I_{PP}$ (Note 3)	$I_{PP}(A)$ (Note3)	$P_{PK}(W)$ (Note3)	$C(pF)$
	Max	Max	Max	Min	Max	mA	Max	Max	Max	Max	Max
LESD8D5.0CA	5	0.5	0.3	5.6	8	1	9.8	12.5	5.5	69	15

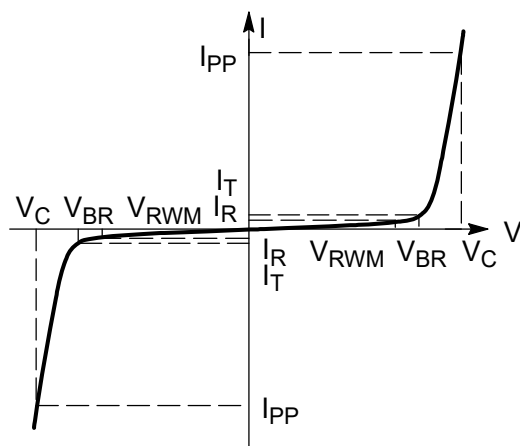
Notes:

Other voltage available upon request.

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

3. Surge current waveform per Figure 3.

## 7. Electrical Parameters ( $T_A=25^\circ C$ unless otherwise noted )

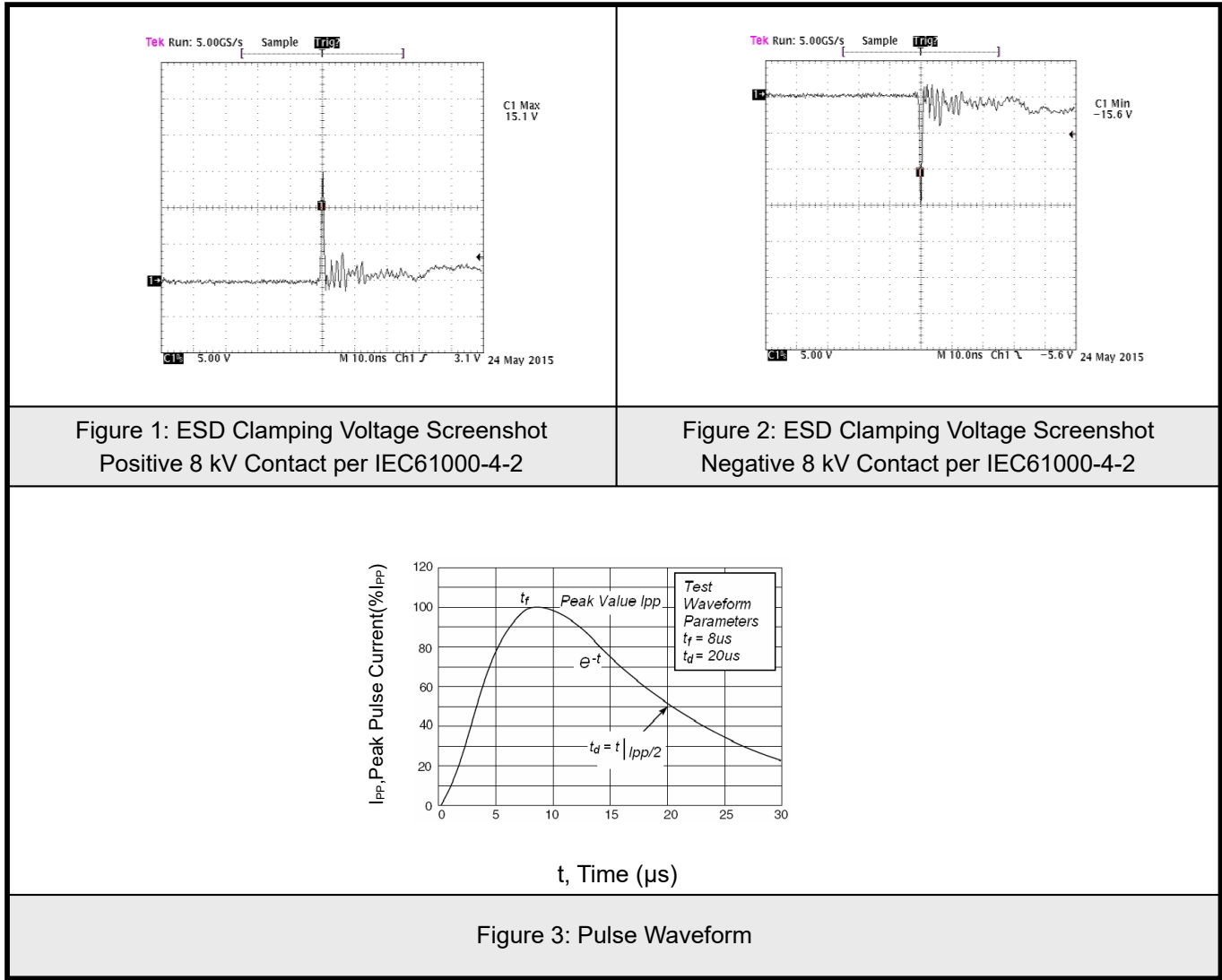


Bi-Directional TVS

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

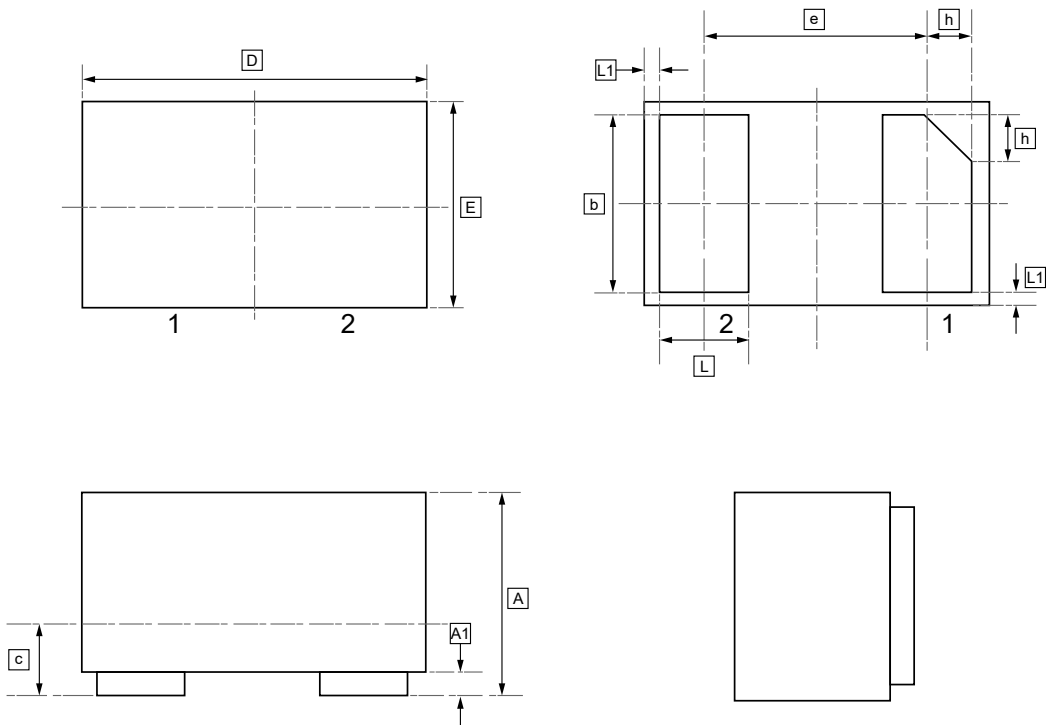


8. Typical characteristic





9.SOD-882 Package Outline Dimensions



DIMENSIONS (mm are the original dimensions)

Symbol	A	A1	b	c	D	e	E	L	L1	h
Min	0.45	0.00	0.45	0.12	0.95	0.65	0.55	0.20	0.05	0.07
Max	0.55	0.05	0.55	0.18	1.05	BSC	0.65	0.30	REF	0.17



10.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW LESD8D5.0CAT5G	SOD-882	10000	Tape and reel



## 11.Disclaimer

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