

1.Description

The LESD8D7.0CA 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.

3.Features

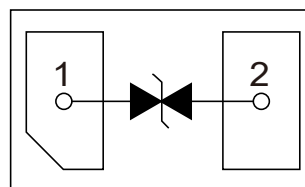
- Small Body Outline Dimensions
- Low Body Height
- Peak Power up to 80Watts @ 8x20μs Pulse
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human

2.Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

- Body Model
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection
- We declare that the material of product compliance with RoHS requirements.

4.Pinning information



SOD-882



5. Absolute Ratings ($T_{amb}=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu\text{s}$)	P_{PP}	80	W
Maximum lead temperature for soldering during 10s	T_L	260	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to 150	$^{\circ}\text{C}$
Junction Temperature Range	T_{OP}	-40 to 125	$^{\circ}\text{C}$
Maximum junction temperature	T_J	150	$^{\circ}\text{C}$
IEC61000-4-2 (ESD)	air discharge	± 20	kV
	contact discharge	± 15	kV
IEC61000-4-4(EFT)		40	A
ESD Voltage	Per Human Body Model	16	kV



6. Electrical Characteristic ($T_A=25^\circ\text{C}$ unless otherwise noted)

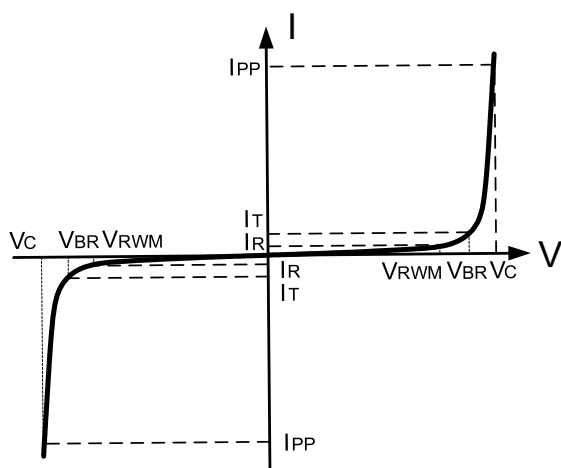
Device	V_{RWM} (V)	$I_R(\mu\text{A})$ @ V_{RWM}	$V_{BR}(\text{V})$ @ I_T (Note 1)	I_T	$V_C(\text{V})$ @ $I_{PP}=3\text{A}^*$	$V_C(\text{V})$ @ I_{PP}^*	I_{PP} (A)*	P_{PK} (W)*	C (pF)
	Max	Max	Min	mA	Typ	Max	Max	Max	Typ
LESD8D7.0CAT5G	7	1	7.2	1	13	16	5	80	16

Notes:

*Surge current waveform per Figure 2.

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

7. Electrical Parameter

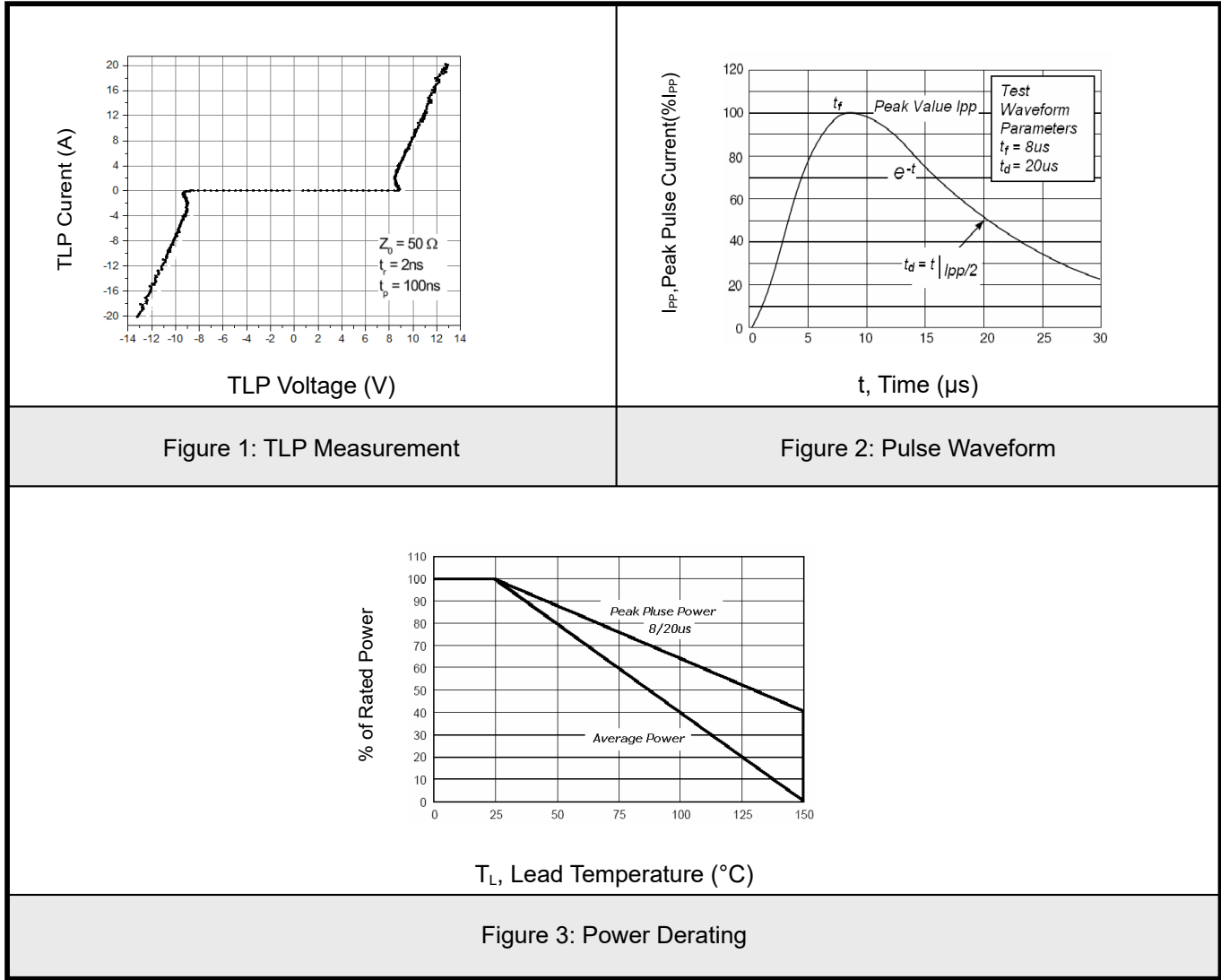


Bi-Directional TVS

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}
I_T	Test Current
V_{BR}	Breakdown Voltage @ I_T
I_F	Forward Current
V_F	Forward Voltage @ I_F

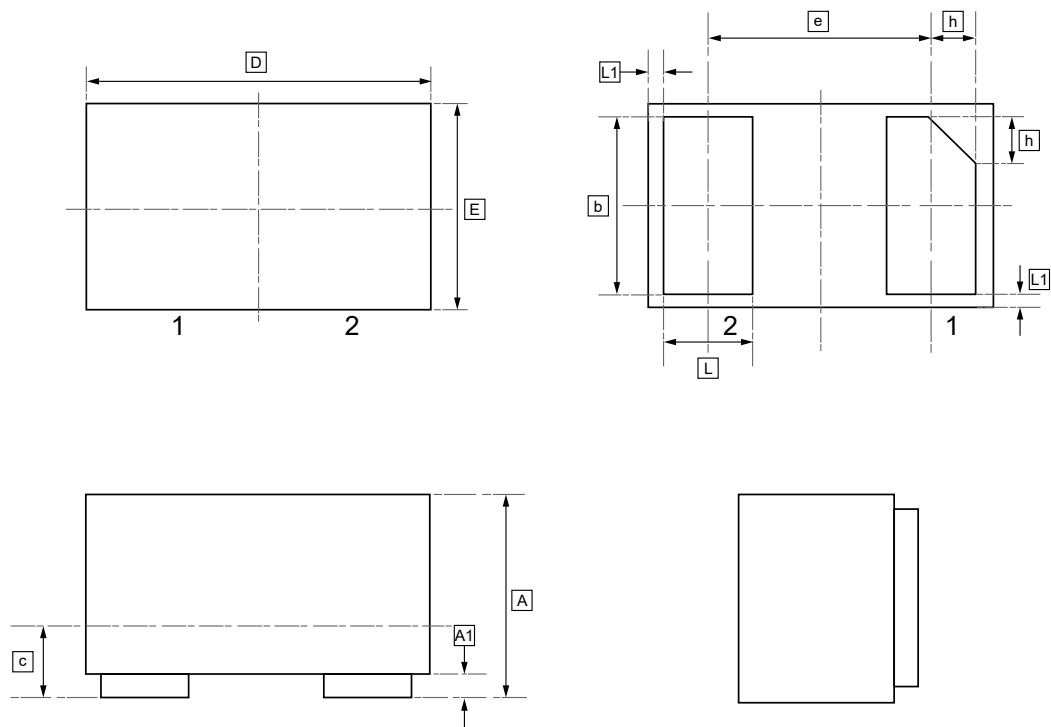


8. Typical characteristic





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 LESD8D7.0CAT5G	SOD-882	10000	Tape and reel



11.Disclaimer

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