

LESD8L5.0CT5G

Transient Voltage Suppressors

ESD Protection Diodes with Ultra–Low Capacitance

The ESD8L is designed to protect voltage sensitive components that require ultra-low capacitance from ESD and transient voltage events. Excellent clamping capability, low capacitance, 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 low capacitance, it is suited for use in high frequency designs such as USB 2.0 high speed and antenna line applications.

Specification Features:

- Ultra Low Capacitance 0.5 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: 5 V
- Low Leakage
- Response Time is Typically < 1.0 ns
- IEC61000-4-2 Level 4 ESD Protection
- This is a Pb–Free Device
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

QUALIFIED MAX REFLOW TEMPERATURE: 260°C

Device Meets MSL 1 Requirements

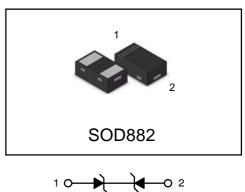
MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Contact Air		±8	kV
Total Power Dissipation on FR-5 Board (Note 1) @ T _A = 25°C	P _D	150	mW
Storage Temperature Range	T _{stg}	–55 to +150	°C
Junction Temperature Range	Т _Ј	-55 to +125	°C
Lead Solder Temperature – Maximum (10 Second Duration)	ΤL	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.

LESD8L5.0CT5G S-LESD8L5.0CT5G



Ordering information

Device	Marking	Shipping
LESD8L5.0CT1G	Ν	5000/Tape&Reel
LESD8L5.0CT3G	Ν	8000/Tape&Reel
LESD8L5.0CT5G	Ν	10000/Tape&Reel



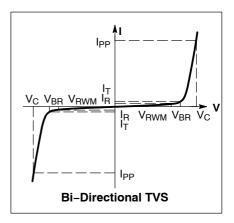
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LESD8L5.0CT5G,S-LESD8L5.0CT5G

ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

Symbol	Parameter					
I _{PP}	Maximum Reverse Peak Pulse Current					
V _C	Clamping Voltage @ IPP					
V _{RWM}	Working Peak Reverse Voltage					
I _R	Maximum Reverse Leakage Current @ V _{RWM}					
V _{BR}	Breakdown Voltage @ I _T					
Ι _Τ	Test Current					
١ _F	Forward Current					
V _F	Forward Voltage @ I _F					
P _{pk}	Peak Power Dissipation					
С	Capacitance @ V_R = 0 and f = 1.0 MHz					



ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

		V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)	Ь	C (pF)	V _C (V) @ Ipp = 1 A (Note 3)	v _c
Device	Device Marking	Max	Max	Min	mA	Max	Мах	Per IEC61000-4-2 (Note 4)
LESD8L5.0CT5G	Ν	5.0	1.0	5.4	1.0	0.9	12.9	Figures 1 and 2 See Below

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 4.

4. For test procedure see Figures 3.

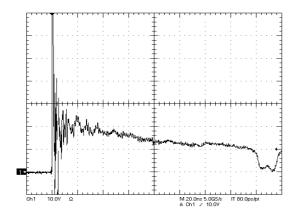


Figure 1. ESD Clamping Voltage Screenshot Positive 8 kV Contact per IEC61000-4-2

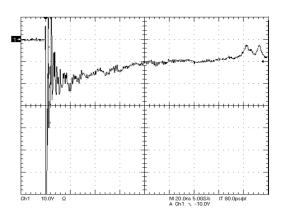


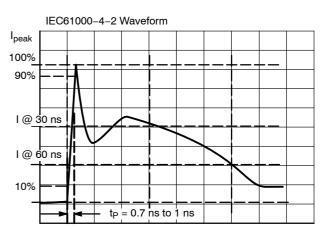
Figure 2. ESD Clamping Voltage Screenshot Negative 8 kV Contact per IEC61000-4-2



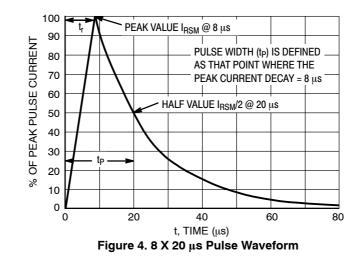
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IEC 61000-4-2 Spec.

Level	Test Voltage (kV)	First Peak Current (A)	Current at 30 ns (A)	Current at 60 ns (A)
1	2	7.5	4	2
2	4	15	8	4
3	6	22.5	12	6
4	8	30	16	8









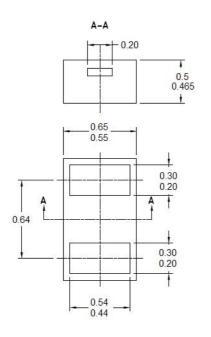
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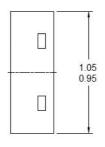
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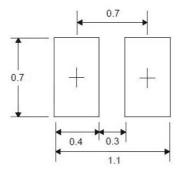
SOD882

DIMENSION OUTLINE:

Unit:mm









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)

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