



LESD8D5.0CAT5GESD PROTECTION DIODE

Discription

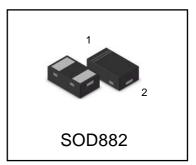
The LESD8D5.0CAT5G is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time ,make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium.

Applications

- I Cellular phones audio
- I MP3 players
- I Digital cameras
- I Portable applicationss
- I mobile telephone

Features

- I Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- I EC61000-4-2 Level 4 ESD Protection
- I These are Pb-Free Devices
- I We declare that the material of product compliance with RoHS requirements.



ESD8D5.0CAT5G



Ordering information

Device	Marking	Shipping
LESD8D5.0CAT5G	AK	10000/Tape&Reel

MAXIMUM RATINGS

Rating	Symbol	Value	Unit	
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±25 ±20	kV kV	
Total Power Dissipation on FR-5 Board (Note 1) @ $T_A=25^{\circ}C$	PD	200	mW	
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	°C	
Lead Solder Temperature – Maximum (10	TL	260	°C	
Second Duration)				

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.

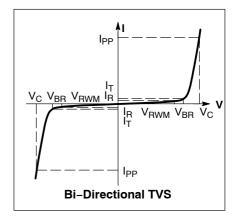


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ELECTRICAL CHARACTERISTICS

(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 @ $V_{\mbox{RWM}}$					
V _{BR}	Breakdown Voltage @ I _T					
Ι _Τ	Test Current					
P _{pk}	Peak Power Dissipation					
С	Capacitance @ $V_R = 0$ and f = 1.0 MHz					



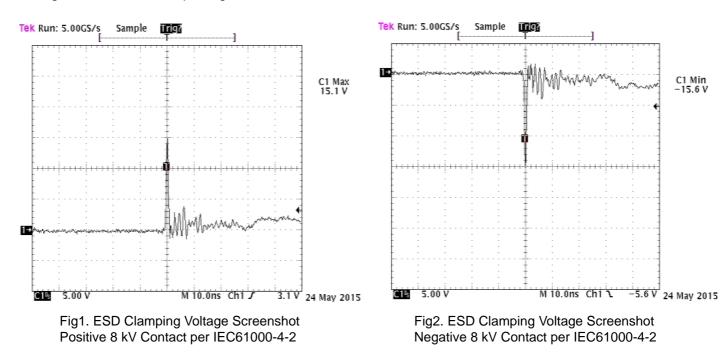
ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _{R1} (μΑ) @ V _{RWM}	I _{R2} (μA) @ V _R =3.5V	V _{BR} (V) @ I _T (Note 2)		ΙŢ	V _C (V) @ I _{PP} = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	I_{PP}(A) (Note 3)	Р_{РК}(W) (Note 3)	C (pF)
Device	Max	Max	Мах	Min	Мах	mA	Max	Max	Max	Max	Max
LESD8D5.0CAT5G	5.0	0.5	0.3	5.6	8.0	1.0	9.8	12.5	5.5	69	15

Other voltage available upon request.

2. V_{BR} is measured with a pulse test current IT at an ambient temperature of $25\,^\circ\!\!\mathbb{C}$

3. Surge current waveform per Figure 3.





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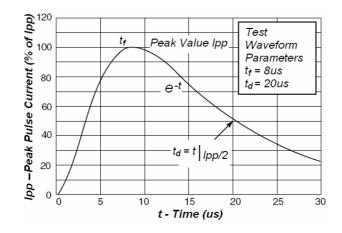


Fig3. Pulse Waveform

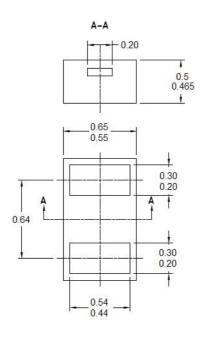


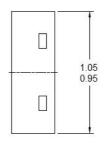
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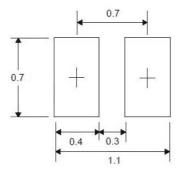
SOD882

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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