

LESD8D36T5G Transient Voltage Suppressors

Discription

The LESD8D36T5G is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD. Because of its small size, it is suited for use in cellular phones, digital cameras and many other portable applications where board space is at a premium.

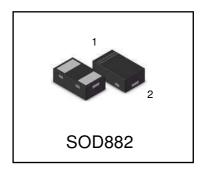
Applications

- I Cellular phones audio
- I Digital cameras
- I Portable applications
- I Mobile telephone

Features

- I Small Body Outline Dimensions: 0.039 " x 0.024 " (1.0 mm x 0.60 mm)
- I Low Body Height: 0.020 " (0.50 mm)
- I Low Leakage
- I Response Time is Typically < 1 ns
- I ESD Rating of Class 3 per Human Body Model
- I IEC61000-4-2 Level 4 ESD Protection
- I These are Pb-Free Devices

LESD8D36T5G





Ordering information

Device	Marking	Shipping
LESD8D36T5G	T6	10000/Tape&Reel

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±30 ±30	kV kV
Total Power Dissipation on FR-5 Board (Note 1)	PD	150	mW
@ T _A =25℃			
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	$^{\circ}$
Lead Solder Temperature - Maximum (10	TL	260	$^{\circ}$
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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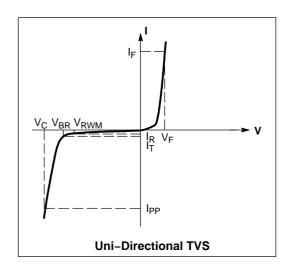


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ELECTRICAL CHARACTERISTICS

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

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
Ι _Τ	Test Current
I _F	Forward Current
V _F	Forward Voltage @ I _F
P _{pk}	Peak Power Dissipation
С	Capacitance @ V _R = 0 and f = 1.0 MHz



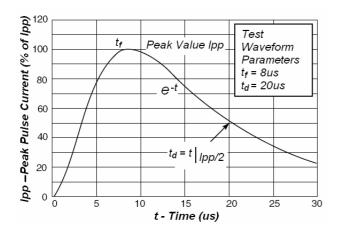
ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			36	٧	
Breakdown Voltage	VBR	38		44	V	IR = 1mA
Reverse Leakage Current	I _R			0.5	μА	V _{RM} =36V
Peak Pulse Current (8/20µs)	IPP			2	Α	
Clamping Voltage	Vc			52	V	IPP =2A (8 x 20μs pulse)
Forward Voltage	VF			1.2	V	IF=10mA
Junction Capacitance	Сл			40	pF	V _R = 0V, f = 1MHz

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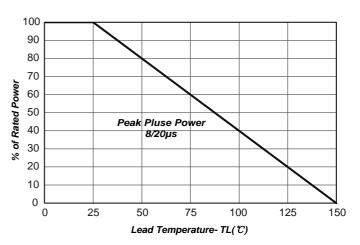


Fig1. Pulse Waveform

Fig2 Power Derating

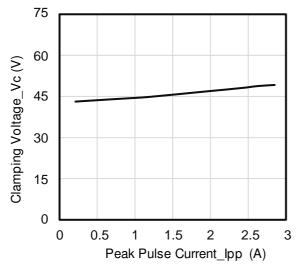


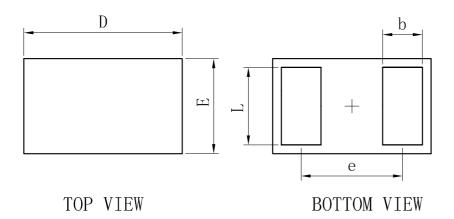
Figure 3. Clamping Voltage vs. Peak Pulse Current

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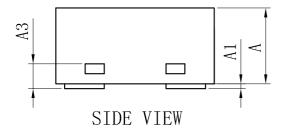


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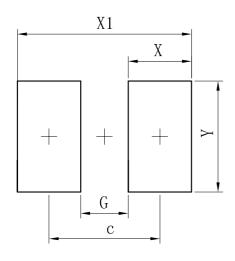
OUTLINE AND DIMENSIONS



	S0D882				
Dim	Min	Тур	Max		
D	0. 95	1.00	1.05		
Е	0. 55	0.60	0.65		
е		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)
С	0.70
G	0.30
X	0.40
X1	1. 10
Y	0.70

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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)