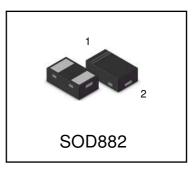


# S-LESD8D24CAT5G ESD PROTECTION DIODE

## Discription

The S-LESD8D24CAT5G 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.

# S-LESD8D24CAT5G





- I Digital cameras
- I Portable applications
- I Mobile telephone

#### **Ordering information**

Marking

1A

**-O** 2

Shipping

10000/Tape&Reel

10

Device

S-LESD8D24CAT5G

## Features

I Small Body Outline Dimensions: 1.00 mm x 0.60 mm

1	Low Body	Height: 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
- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- I S-prefix for automotive and other applications requiring unique site and control change requirements ; AEC-Q101 qualified and PPAP capable.

#### **MAXIMUM RATINGS**

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air Contact Contact discharge		±30 ±30	kV kV
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.

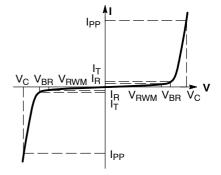


# S-LESD8D24CAT5G

### **Electrical Parameter**

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

Symbol	Parameter			
I <sub>PP</sub>	IPP Maximum Reverse Peak Pulse Current			
V <sub>C</sub>	V <sub>C</sub> Clamping Voltage @ I <sub>PP</sub>			
V <sub>RWM</sub> Working Peak Reverse Voltage				
I <sub>R</sub> Maximum Reverse Leakage Current @ V <sub>RWM</sub>				
V <sub>BR</sub> Breakdown Voltage @ I <sub>T</sub>				
Ι <sub>Τ</sub>	Test Current			
P <sub>pk</sub> Peak Power Dissipation				
C Capacitance @ $V_R = 0$ and f = 1.0 MHz				

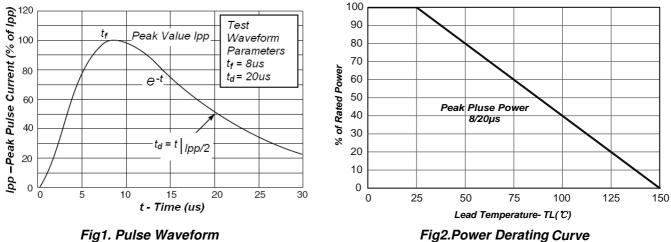


#### Electrical Parameter (T<sub>A</sub> = 25°C unless otherwise noted)

Device	V <sub>RWM</sub> (V)	I <sub>R</sub> ( μ Α) @ V <sub>RWM</sub>		₁ (V) * = 1mA	I <sub>PP</sub> (A)**	V <sub>C</sub> (V)** @ I <sub>PP</sub> =1A		Р <sub>РК</sub> (W)**	C(pF) VR=0V, f=1MHz;
	Max	Max	Min	Max	Max	Max	Max	Max	Max
S-LESD8D24CAT5G	24	0.1	25	32	8	32	42	350	35

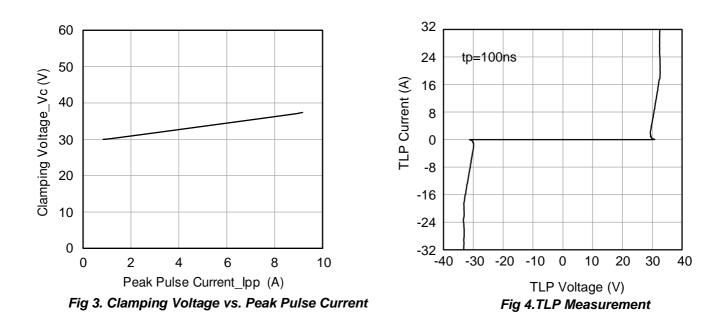
\* V<sub>BR</sub> is measured with a pulse test current I<sub>T</sub> at an ambient temperature of 25°C.

\*\* Surge current waveform per Figure 1.





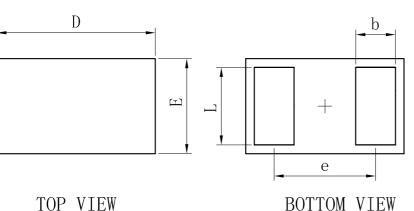
# S-LESD8D24CAT5G



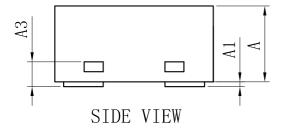


## OUTLINE AND DIMENSIONS

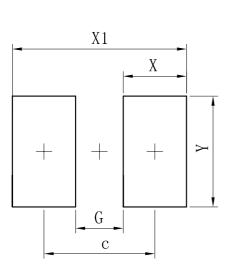
**LRC** 



S0D882						
Dim	Min Typ 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



SOD882

SOD882

Dimensions	(mm)
С	0.70
G	0.30
Х	0.40
X1	1.10
Y	0.70



#### DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
- Before you use our Products for new Project, you are requested to carefully read this document and fully under--stand its contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any LRC's Products against warning, caution or note contained in this document.
- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales represe--ntative.

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)