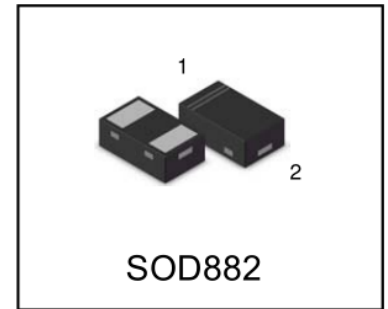


S-LESD8LL24CAT5G

ESD Protection Diodes

1. FEATURES

- Ultra low leakage
- Ultra low capacitance
- Complies with IEC 61000-4-2 standards: Air discharge: $\pm 30\text{kV}$
Contact discharge: $\pm 30\text{kV}$
- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S-Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



2. DEVICE MARKING AND ORDERING INFORMATION

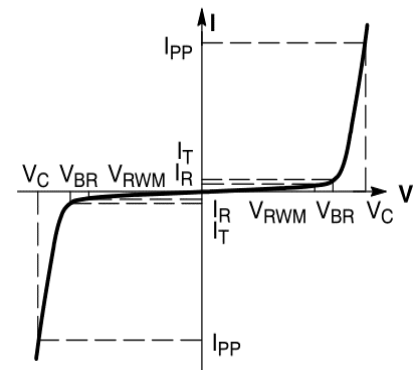
Device	Marking	Shipping
S-LESD8LL24CAT5G	R7	10000/Tape&Reel

3. MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD) Contact		± 30	kV
Air		± 30	
peak pulse power @ 8/20 μs (Note 1)	PPP	80	W
peak pulse current @ 8/20 μs (Note 1)	IPP	2	A
Storage Temperature Range	Tstg	$-55 \sim +150$	$^\circ\text{C}$
Operating Temperature Range	TJ	$-55 \sim +150$	$^\circ\text{C}$

4. ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Symbol	Parameter
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
VRWM	Working Peak Reverse Voltage
IR	Maximum Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
IT	Test Current
Ppk	Peak Power Dissipation
C	Capacitance @ VR = 0 and f = 1.0 MHz



5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max	Unit
reverse stand-off voltage	VRWM			24	V
reverse leakage current (VRWM = 24 V)	IRM			0.5	μA
breakdown voltage (IT = 1 mA)	VBR	24.5		31	V
Clamping Voltage(Note 1) (IPP = 2A (8 x 20μs pulse))	VC			45	V
Junction Capacitance (VR = 0V, f = 1MHz)	CJ			1	pF

Note 1. Surge current waveform per Figure 1 according to IEC 61000-4-5.

6. ELECTRICAL CHARACTERISTICS CURVES

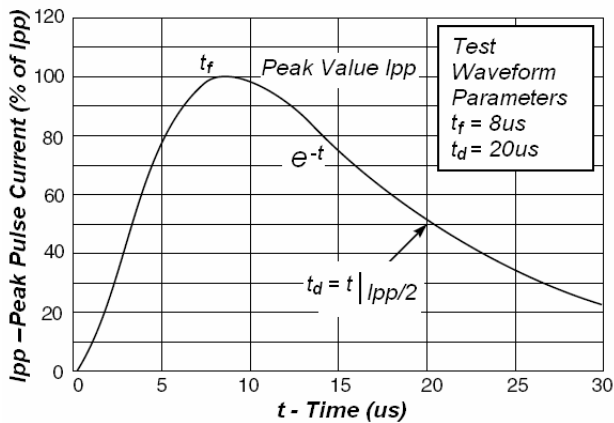


Figure 1. Pulse Waveform according to IEC 61000-4-5

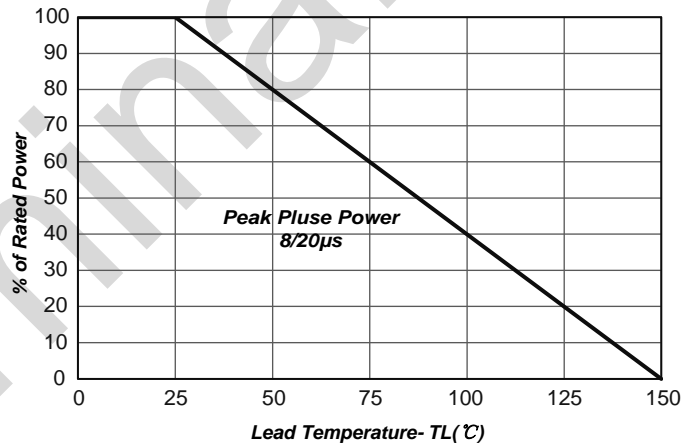


Figure 2. Power Derating Curve

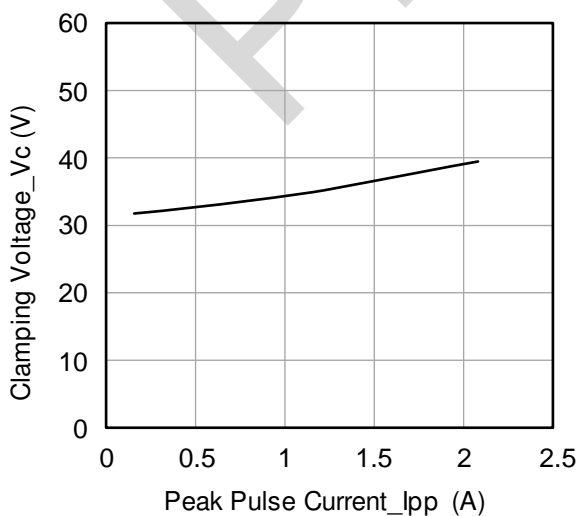


Figure 3. Clamping Voltage vs. Peak Pulse Current according to IEC 61000-4-5.

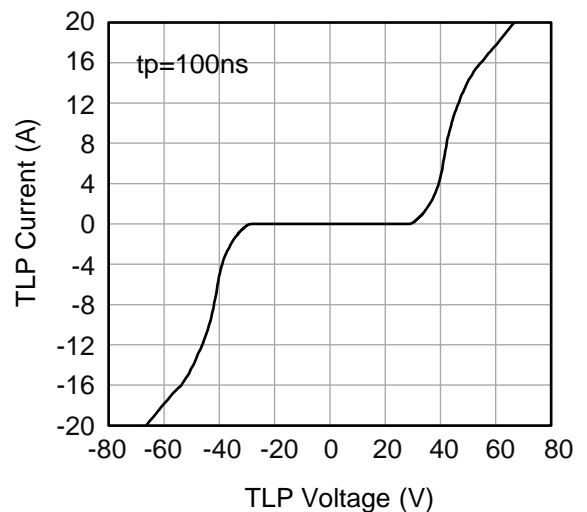
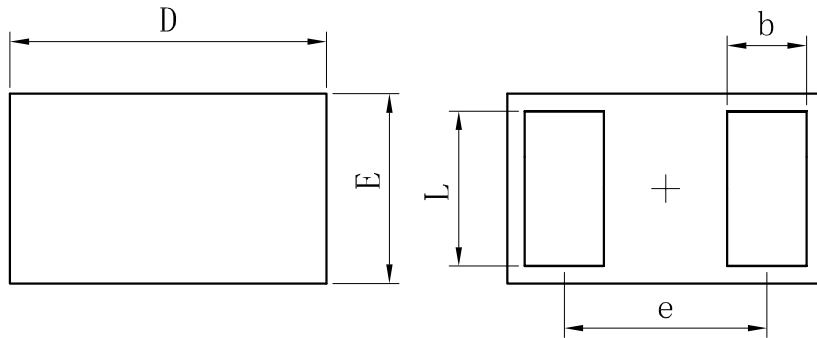


Figure 4. TLP Measurement

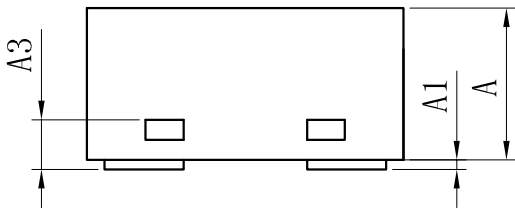
7. OUTLINE AND DIMENSIONS



TOP VIEW

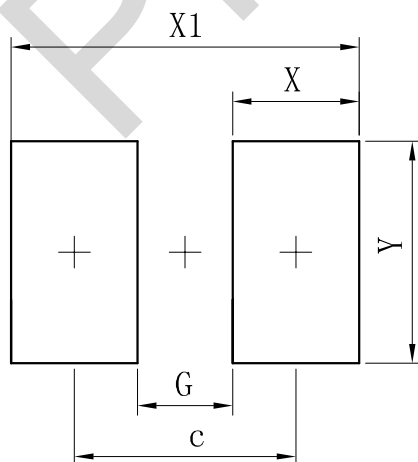
BOTTOM VIEW

SOD882			
Dim	Min	Typ	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	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			



SIDE VIEW

8. SOLDERING FOOTPRINT



Dimensions	(mm)
c	0.70
G	0.30
X	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.
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Preliminary

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)