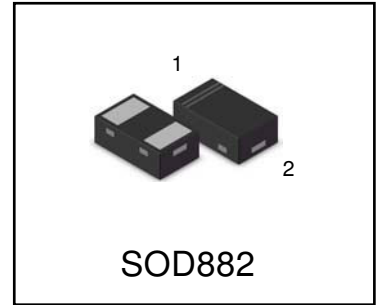


S-LESD8LL24CT5G

ESD Protection Diodes

1. FEATURES

- Ultra low leakage: nA level.
- Low clamping voltage.
- Response Time is Typically < 1 ns.
- Complies with IEC 61000-4-2 standards: Air discharge: $\pm 15\text{kV}$
Contact discharge: $\pm 15\text{kV}$
- 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

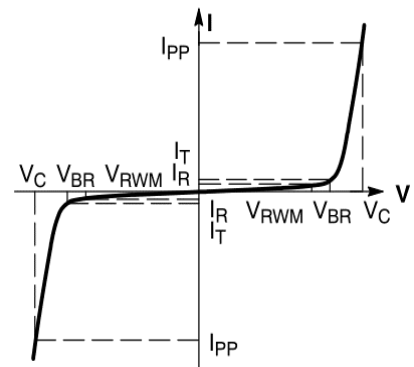
Device	Marking	Shipping
S-LESD8LL24CT5G	R6	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD) Contact		± 15	kV
Air		± 15	
peak pulse power@8/20 μs	PPP	70	W
peak pulse current @8/20 μs	IPP	1.5	A
Storage Temperature Range	Tstg	-55 ~ +150	°C
Operating Temperature Range	TJ	-55 ~ +150	°C

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

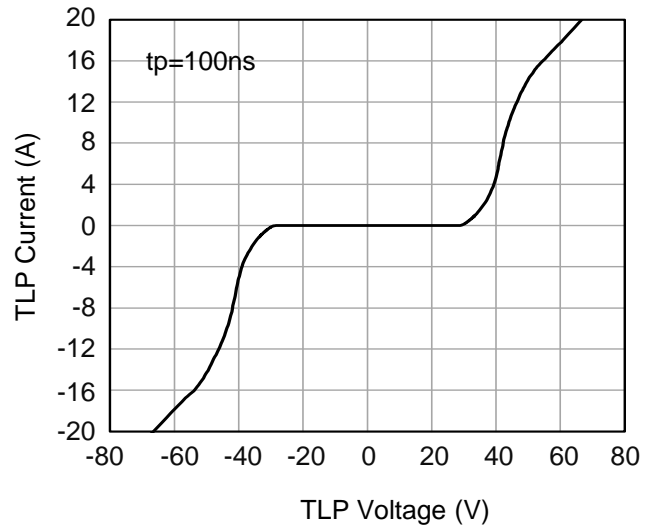
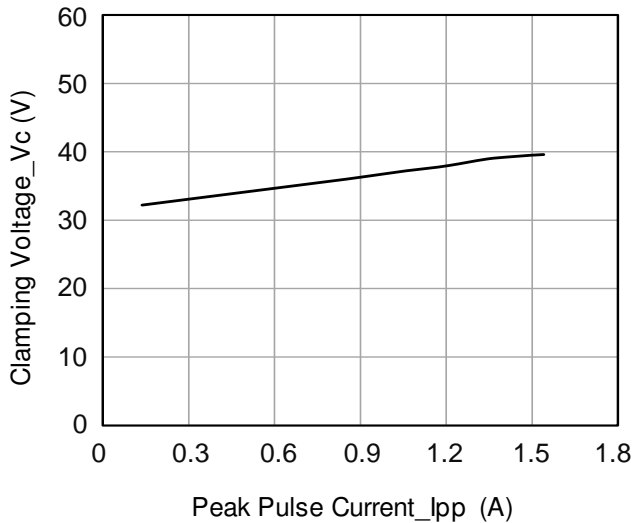
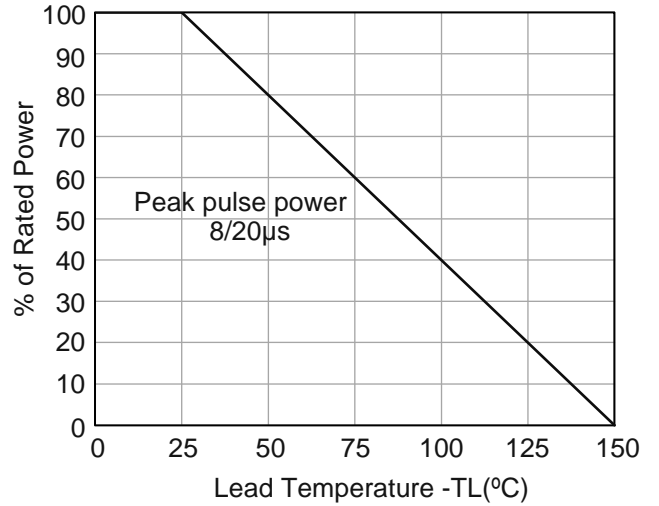
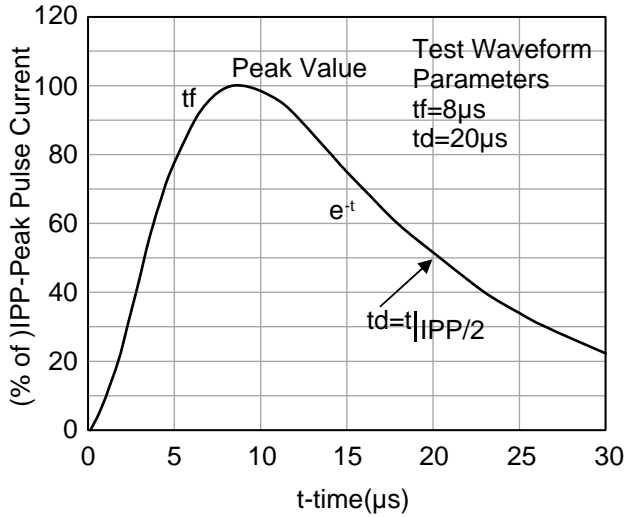
Symbol	Parameter
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
VRWM	Working Peak Reverse Voltage
IR	Maximum Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
IT	Test Current
Ppk	Peak Power Dissipation
C	Capacitance @ VR = 0 and f = 1.0 MHz



5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

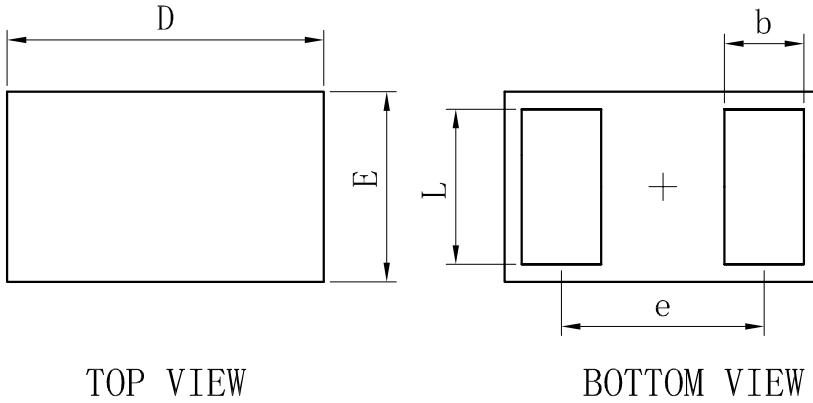
Characteristic	Symbol	Min.	Typ.	Max	Unit
reverse stand-off voltage	VRWM	-	-	24	V
reverse leakage current (VRWM = 24 V)	IRM	-	-	0.5	μA
breakdown voltage (IT = 1 mA)	VBR	24.5	-	-	V
Clamping Voltage (IPP = 1A (8 x 20μs pulse)) (IPP = 1.5A (8 x 20μs pulse))	VC	-	-	39 45	V
Junction Capacitance (VR = 0V, f = 1MHz)	CJ	-	-	0.45	pF

6. ELECTRICAL CHARACTERISTICS CURVES

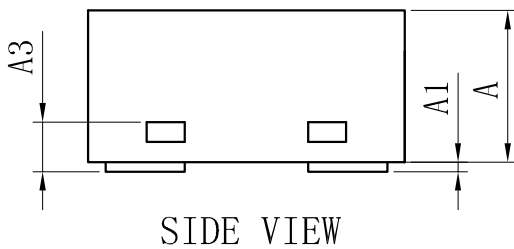


7. OUTLINE AND DIMENSIONS

SOD882

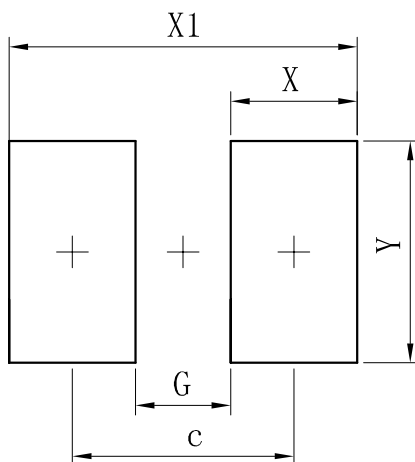


SOD882			
Dim	Min	Typ	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	0.64	-
L	0.44	0.49	0.54
b	0.20	0.25	0.30
A	0.43	0.48	0.53
A1	0	-	0.05
A3	0.127REF.		
All Dimensions in mm			



8. SOLDERING FOOTPRINT

SOD882



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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