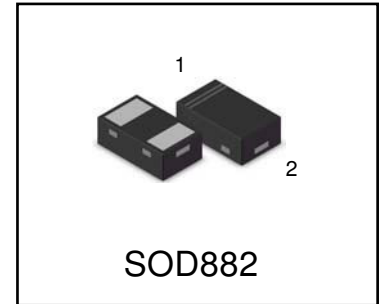


LESD8D12CBT5G

ESD PROTECTION DIODE

1. FEATURES

- Low operating voltage: 12V
- Low clamping voltage.
- Ultra low leakage: nA level
- 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.



2. APPLICATIONS

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

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LESD8D12CBT5G	DC	10000/Tape&Reel

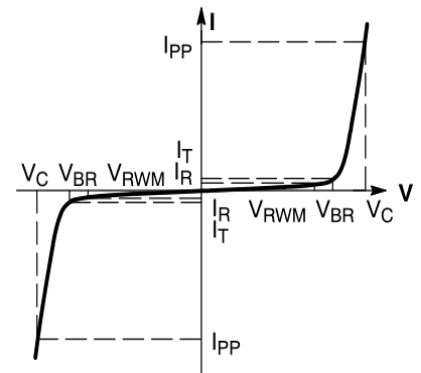
4. MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
IEC 61000-4-2 (ESD) Contact		± 30	KV
Air		± 30	
Peak pulse power @8/20 μs (Note 1)	PPP	120	W
Peak pulse current @8/20 μs (Note 1)	IPP	9	A
Junction Temperature Range	TJ	-55~+150	$^\circ\text{C}$
Storage Temperature Range	Tstg	-55~+150	$^\circ\text{C}$

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

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

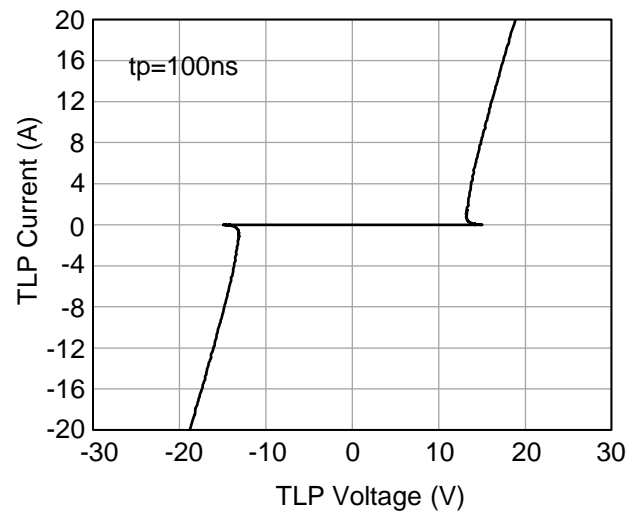
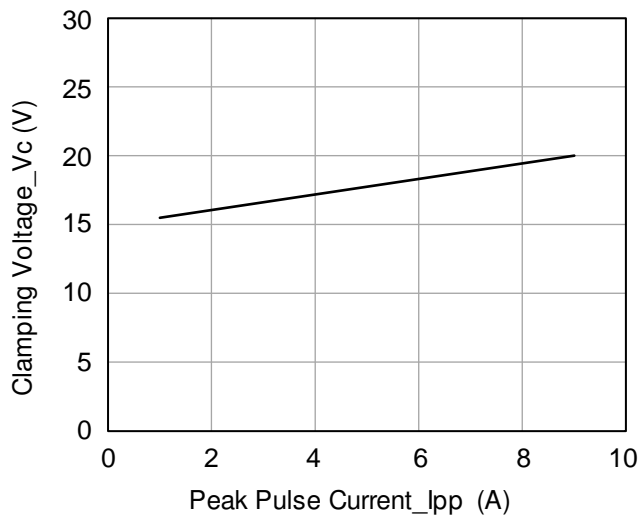
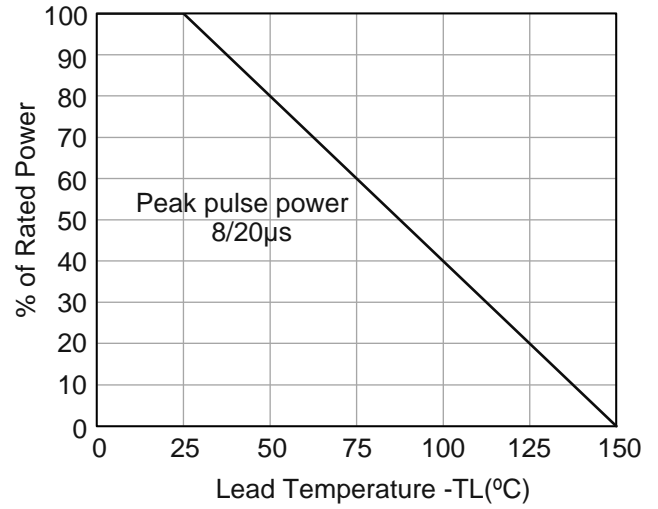
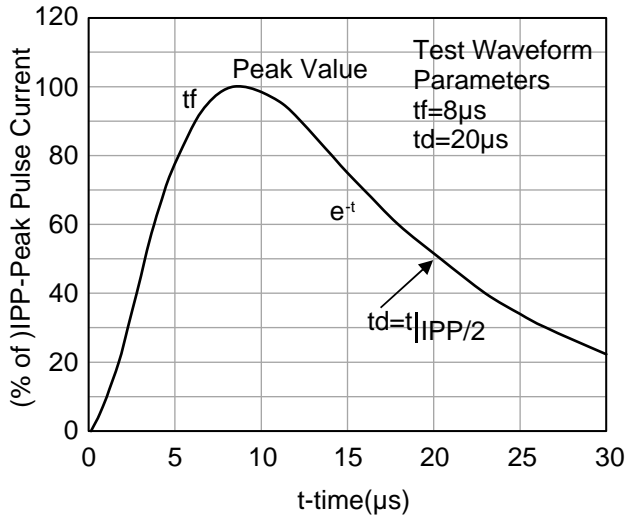
Symbol	Parameter
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
VRWM	Working Peak Reverse Voltage
IR	Maximum Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
IT	Test Current
Ppk	Peak Power Dissipation
C	Capacitance @ VR = 0 and f = 1.0 MHz


6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse stand-off voltage	VRWM				12	V
Breakdown Voltage	VBR	IT = 1mA	13	14.5	16	V
Reverse leakage current	IR	VR = 12V		50	100	nA
Clamping Voltage(Note 1)	VC	IPP = 1A, tp=8/20μs IPP = 8A, tp=8/20μs		17	19	V
Dynamic resistance	RDYN			0.2	0.3	Ω
Junction Capacitance	Cj	VR = 0V, f = 1MHz		9	12	pF

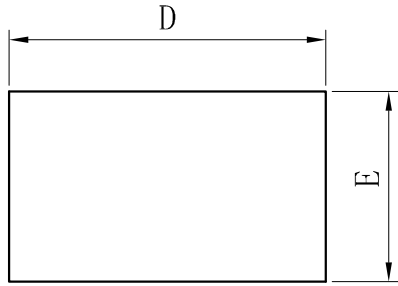
Note 1. Surge current waveform per Figure 1 according to IEC 61000-4-5.

7. ELECTRICAL CHARACTERISTICS CURVES

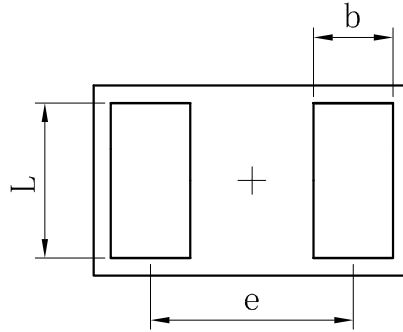


8. OUTLINE AND DIMENSIONS

SOD882

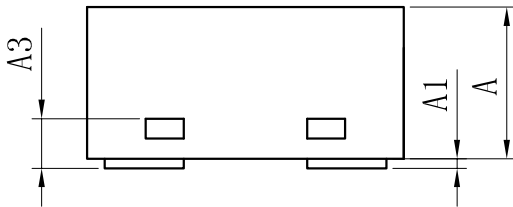


TOP VIEW



BOTTOM VIEW

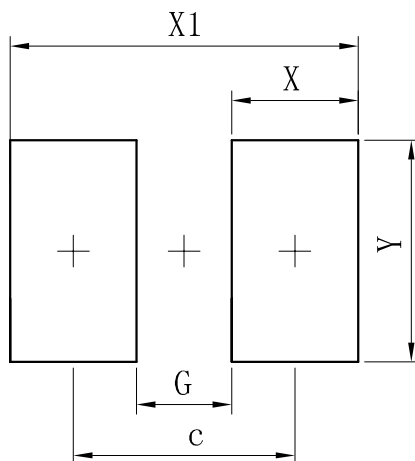
SOD882			
Dim	Min	Typ	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	0.64	-
L	0.44	0.49	0.54
b	0.20	0.25	0.30
A	0.43	0.48	0.53
A1	0	-	0.05
A3	0.127REF.		
All Dimensions in mm			



SIDE VIEW

9. 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.
- Before you use our Products for new Project, you are requested to carefully read this document and fully understand 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 representative.

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)