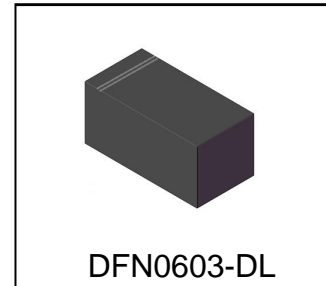


LESD11D5.0CBT5G ESD PROTECTION DIODE

Discription

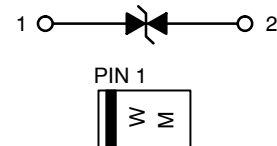
The LESD11D5.0CBT5G is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, digital cameras and many other portable applications where board space is at a premium.

LESD11D5.0CBT5G



Applications

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



W= Specific Device Code
M = Month Code

Features

- I Small Body Outline Dimensions: 0.61 mm x 0.31 mm
- I Low Body Height: 0.28 mm
- I Low Leakage
- I Response Time is Typically < 1 ns
- I IEC61000-4-2 Level 4 ESD Protection
- I These are Pb-Free Devices
- I We declare that the material of product compliance with RoHS requirements.

Ordering information

Device	Marking	Shipping
LESD11D5.0CBT5G	W(CCW90°)	15000/Tape&Reel

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge		±30	kV
Contact discharge		±30	kV
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	°C
Lead Solder Temperature – Maximum (10 Second Duration)	TL	260	°C

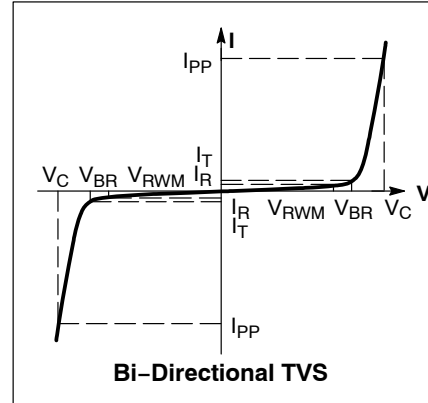
Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

LESD11D5.0CBT5G

ELECTRICAL CHARACTERISTICS

(T_A = 25°C 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
I _T	Test Current
P _{pk}	Peak Power Dissipation
C	Capacitance @ V _R = 0 and f = 1.0 MHz



ELECTRICAL CHARACTERISTICS

Device	V _{RWM} (V)	I _R (μA) @ V _{RWM}	V _{BR} (V) @ I _T (Note 1)		I _T	V _C (V) @ I _{PP} = 1 A (Note 2)	V _C (V) @ MAX I _{PP} (Note 2)	I _{PP} (A) (Note 2)	P _{PK} (W) (Note 2)	V _{Clamp} @ I _{TLP} = 16 A (V)	C (pF)
	Max	Max	Min	Max	mA	Max	Max	Max	Max	Typ	Max
LESD11D5.0CBT5G	5.0	0.1	5.6	8	1.0	8.4	9.5	10	85	8.5	25

Other voltage available upon request.

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C
2. Surge current waveform per Figure 3.

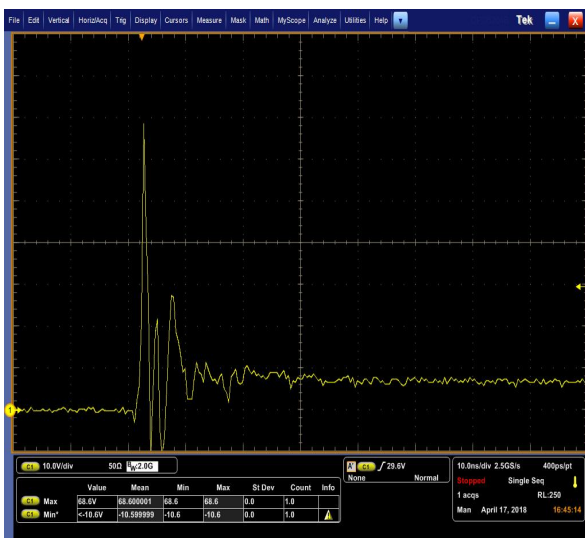
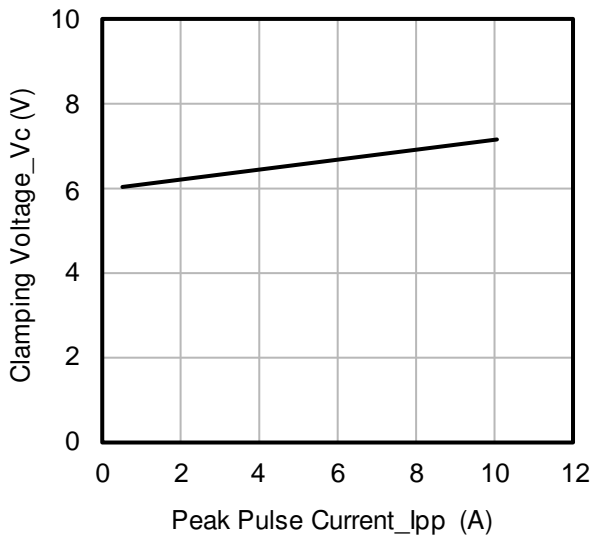
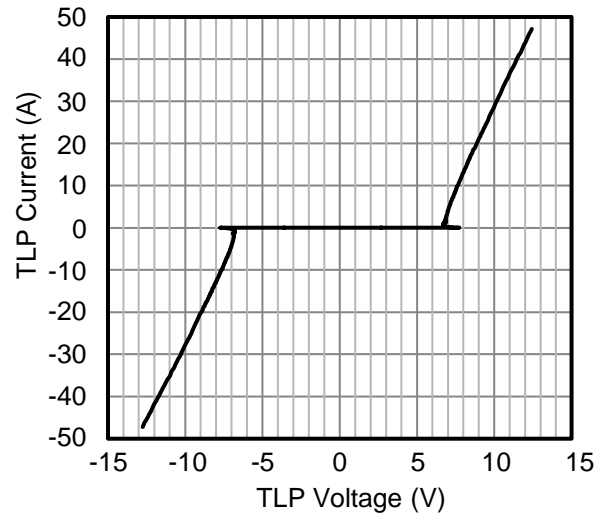
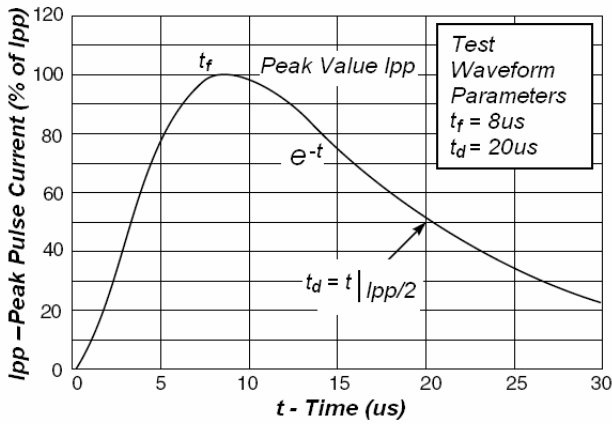


Fig1. ESD Clamping Voltage Screenshot Positive 8 kV Contact per IEC61000-4-2



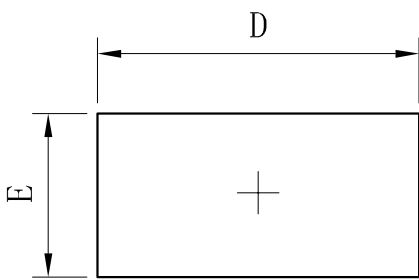
Fig2. ESD Clamping Voltage Screenshot Negative 8 kV Contact per IEC61000-4-2

LESD11D5.0CBT5G

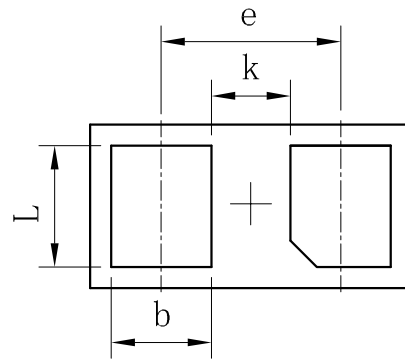


LESD11D5.0CBT5G

OUTLINE AND DIMENSIONS

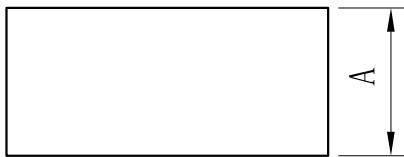


TOP VIEW



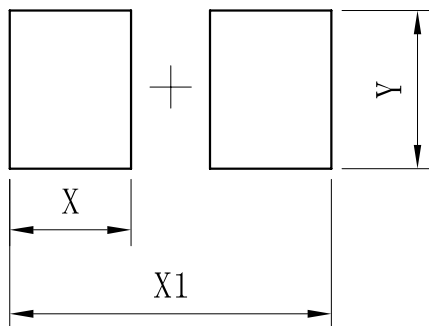
BOTTOM VIEW

DFN0603-DL			
Dim	Min	Typ.	Max
D	0.58	0.61	0.64
E	0.28	0.31	0.34
e	-	0.34	-
L	0.20	0.23	0.26
b	0.16	0.19	0.22
A	0.25	0.28	0.31
k	0.12	0.15	0.18
All Dimensions in mm			



SIDE VIEW

SOLDERING FOOTPRINT



DFN0603-DL	
DIM	(mm)
X	0.23
X1	0.61
Y	0.30

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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- 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\(乐山无线电\)](#)