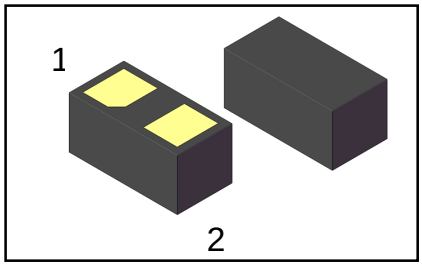
LESD11LL5.0CT5G ESD PROTECTION DIODE

Discription

The LESD11LL5.0CT5G is desig ned top rotect 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, MP3 players, digital cameras and many other portable applications where board space is at a premium.

LESD11LL5.0CT5G



DFN0603-D



Applications

- Cellular phones audio
- MP3 players
- Digital cameras
- Portable applicationss
- mobile telephone

Features

- Small Body Outline Dimensions: 0.61mm x 0.31 mm
- Low Body Height: 0.28 mm
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000−4−2 Level 4 ESD Protection
- These are Pb−Free Devices
- We declare that the material of product compliance with RoHS requirements.

Ordering information

Device	Marking	Shipping
LESD11LL5.0CT5G	Q	15000/Tape&Reel

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±15 ±8	kV kV
ESD Voltage Per Human Body Model		16	kV
Total Power Dissipation on FR-5 Board (Note 1) @ T_A=25℃	PD	200	mW
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	℃
Lead Solder Temperature – Maximum (10 Second Duration)	TL	260	℃

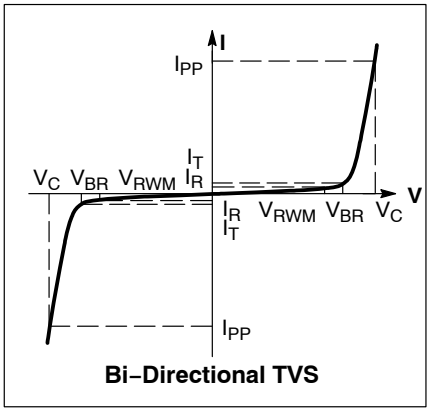
Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. FR-5 = 1.0*0.75*0.62 in.

LESD11LL5.0CT5G

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) Max	I_R (μA) @ V_{RWM} Max	V_{BR} (V) @ I_T (Note 2) Min	I_T mA	V_C (V) @ I_{PP} = 1 A (Note 3) Max	V_C (V) @MAX I_{PP} (Note 3) Max	I_{PP}(A) (Note 3) Max	P_{PK}(W) (Note 3) Max	C (pF) Typ	C (pF) Max
LESD11LL5.0CT5G	5	0.5	6	1.0	12	20	4	80	0.25	0.3

Other voltage available upon request.

2. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25℃

3. Surge current waveform per Figure 1.

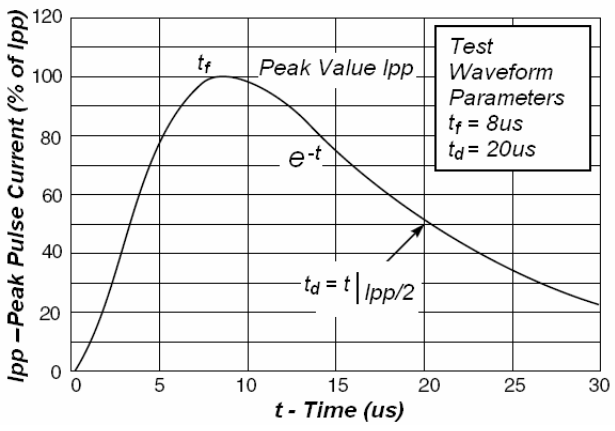


Fig1. Pulse Waveform

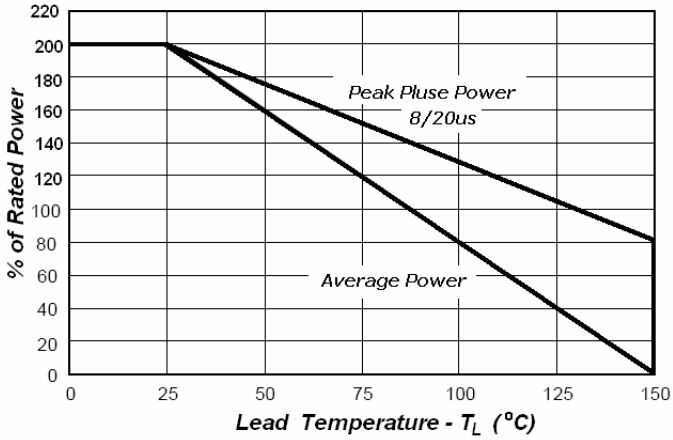
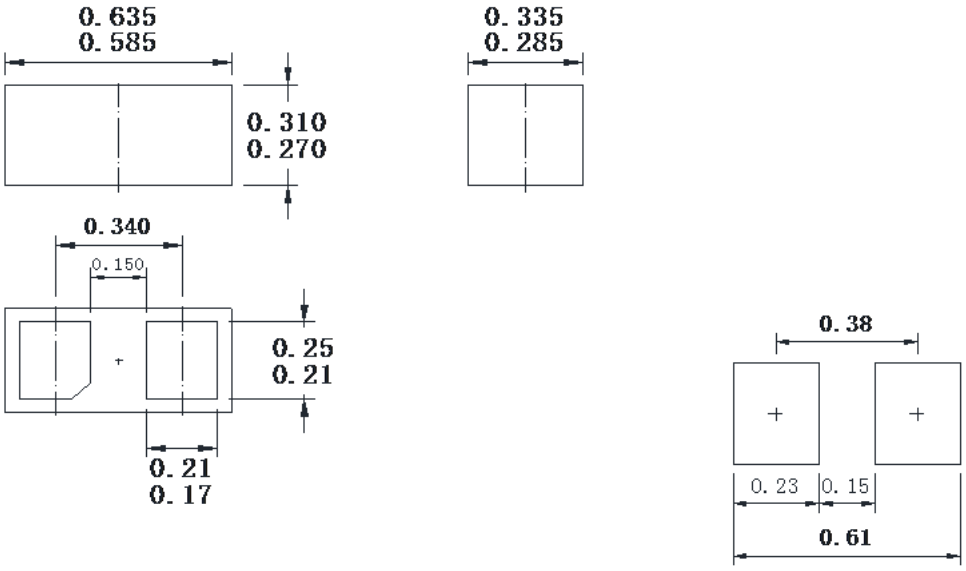


Fig2.Power Derating Curve

LESD11LL5.0CT5G

DFN0603-D

DIMENSION OUTLINE: Unit:mm



Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

LRC:

LM5Z3V3T1G LMBR1100ET1G LMBTA92LT1G LR78M05D L1SS184LT1G LM3Z5V6T1G LMBR0520T1G S-L1N4148WT1G LDTC123JET1G LESD5Z5.0T1G P6KE150A LMBT4403LT1G LMSZ5243BT1G SZA12A L2N7002KWT1G LM5Z7V5T1G LMBT4401LT1G LMBTA13LT1G SZAF5.1A LM3Z18VT1G LTL431APTLT1G LUDZS5.6BT1G L2N7002FLT1G LMSZ5245BT1G LMSZ5248BT1G LMSZ5252BT1G S-LMSZ5265BT1G SM2100AF S-LUDZS3.3BT1G L9014QLT1G