

1.Features

The LESD8D3.3CA 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.

3.Features

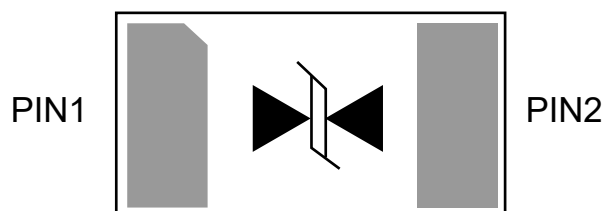
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model

2.Applications

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

- IEC61000-4-2 Level 4 ESD Protection
- These are Pb-Free Devices
- We declare that the material of product compliance with RoHS requirements.

4.Pinning information



DFN1006-2



5. Absolute Maximum Ratings

Parameter	Symbol	Value	Units
IEC 61000-4-2 (ESD)	Air discharge Contact discharge	±25	kV
		±20	kV
IEC 61000-4-2 (ESD) Per Human Body Model		16	kV
Total Power Dissipation on FR-5 Board (Note 1) @ $T_A=25^{\circ}\text{C}$	P_D	200	mW
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^{\circ}\text{C}$
Lead Solder Temperature – Maximum (10 Second Duration)	T_L	260	$^{\circ}\text{C}$

Notes:

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.



6. Electrical Characteristics

Device	V_{RWM} (V)	$I_R(\mu A)$ @ V_{RWM}	$V_{BR}(V)$ @ I_T (Note 2)		I_T	$V_C(V)$ @ $I_{PP}=1A$ (Note 3)	$V_C(V)$ @ MAX I_{PP} (Note 3)	$I_{PP}(A)$ (Note 3)	$P_{PK}(W)$ (Note 3)	$C(pF)$
	Max	Max	Min	Max	mA	Max	Max	Max	Max	Max
LESD8D3.3CA	3.3	0.1	5	6.5	1	7	10	6	60	16

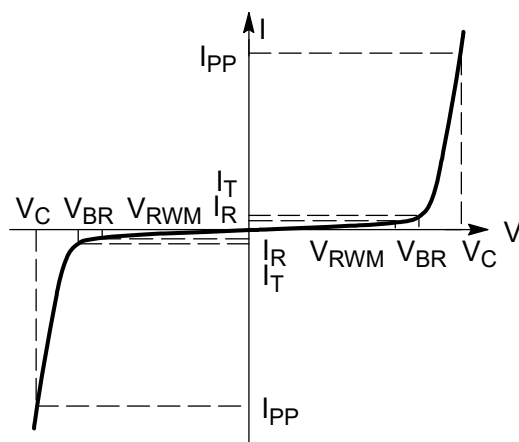
Notes:

Other voltage available upon request.

2. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

3. Surge current waveform per Figure 1.

7. Electrical Parameters ($T_A=25^\circ C$ unless otherwise noted)



Bi-Directional TVS

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

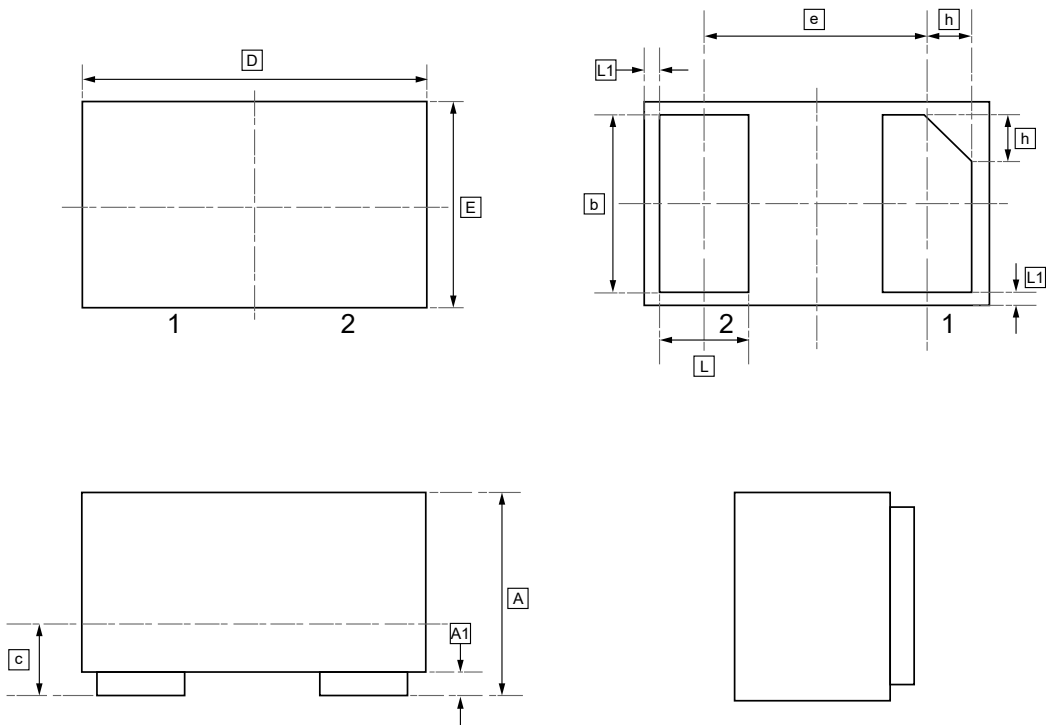


8. Typical characteristic

Figure 1: Pulse Waveform	Figure 2: Power Derating Curve
Figure 3: Positive 8 kV Contact per IEC61000.4.2	Figure 4: Negative 8 kV Contact per IEC61000.4.2



9.DFN1006-2 Package Outline Dimensions

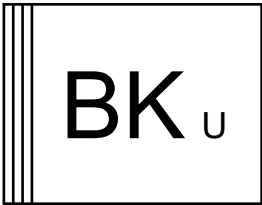


DIMENSIONS (mm are the original dimensions)

Symbol	A	A1	b	c	D	e	E	L	L1	h
Min	0.45	0.00	0.45	0.12	0.95	0.65	0.55	0.20	0.05	0.07
Max	0.55	0.05	0.55	0.18	1.05	BSC	0.65	0.30	REF	0.17



10.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW LESD8D3.3CAT5G	DFN1006-2	10000	Tape and reel



11.Disclaimer

UMW reserves the right to make changes to all products, specifications. Customers should obtain the latest version of product documentation and verify the completeness and currency of the information before placing an order.

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