

## **UMW LESD8D3.3CAT5G**

### 1.Features

The LESD8D3.3CAis 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</p>
- ESD Rating of Class 3 (> 16 kV) per
  Human Body Model

### 2.Applications

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

PIN1 PIN2

**DFN1006-2** 







## **5.Absolute Maximum Ratings**

Parameter	Symbol	Value	Units	
IEC 61000 4 2 (ESD)	Air discharge		±25	kV
IEC 61000-4-2 (ESD)	Contact discharge		±20	kV
IEC 61000-4-2 (ESD)		16	kV	
Total Power Dissipation on FR-5 Board (No	P <sub>D</sub>	200	mW	
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	°C	
Lead Solder Temperature – Maximum (10	T∟	260	°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**

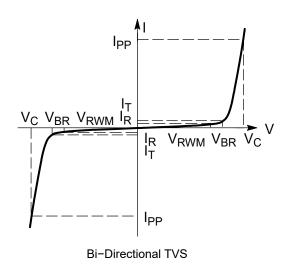
Device	V <sub>RWM</sub>	I <sub>R</sub> (μΑ) @V <sub>RWM</sub>	V <sub>BR</sub> (V) @ I <sub>T</sub> (Note 2)		I <sub>T</sub>	V <sub>c</sub> (V) @I <sub>PP</sub> =1A (Note 3)	V <sub>C</sub> (V) @MAX I <sub>PP</sub> (Note 3)	I <sub>PP</sub> (A) (Note 3)	P <sub>PK</sub> (W) (Note 3)	C(pF)
	Max	Max	Min	Max	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°C unless otherwise noted)



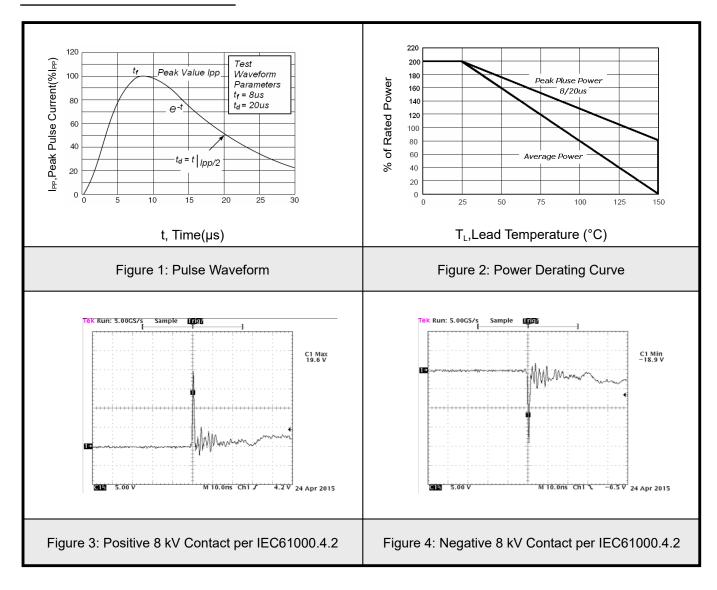
Symbol	Parameter
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current
V <sub>C</sub>	Clamping Voltage @ I <sub>PP</sub>
$V_{RWM}$	Working Peak Reverse Voltage
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>
$V_{BR}$	Breakdown Voltage @ I <sub>⊤</sub>
I <sub>T</sub>	Test Current
P <sub>PK</sub>	Peak Power Dissipation
С	Capacitance @ V <sub>R</sub> =0 and f=1.0 MHz







## 8. Typical characteristic

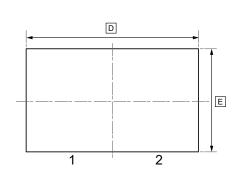


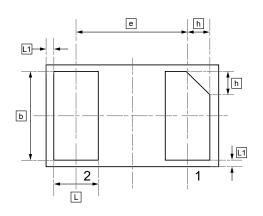


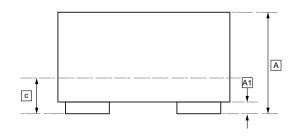


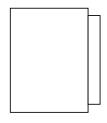


## 9.DFN1006-2 Package Outline Dimensions









### **DIMENSIONS** (mm are the original dimensions)

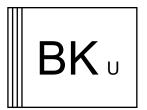
Symbol	Α	<b>A</b> 1	b	С	D	е	E	L	L1	h
Min	0.45	0.00	0.45	0.12	0.95	0.65	0.55	0.20	0.05	0.07
Max	0.55	0.05	0.55	0.18	1.05	BSC	0.65	0.30	REF	0.17







## 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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