

UMW LESD5Z5.0CT1G

1.Description

The LESD5Z5.0CT1G is designed to protect voltage sensitive components from ESD and transient voltage events. 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.Applications

- High Speed Line :USB1.0/2.0, VGA, DVI, SDI
- Serial and Parallel Ports
- Notebooks, Desktops, Servers
- Projection TV

4.Machanical Data

- SOD-523 package
- Terminals: Tin plated, solderable per MIL-STD-750, method 2026

2.Features

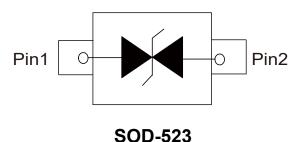
- EC61000-4-2 (ESD) ±30kV (Contact) ±30kV (Air)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- Peak power dissipation: 75W (8/20µs)
- Protects one I/O line
- Low clamping voltage
- Working voltages: 5V
- Low leakage current
- Cellular handsets and accessories
- Portable instrumentation
- Peripherals

■ Packaging: Tape and Reel

■ Reel size: 7 inch

■ MSL3

5. Pinning information









6.Absolute Maximum Ratings

Parameter	Symbol	Value	Units
ESD per IEC 61000-4-2 (Contact)	V_{ESD}	±30	kV
ESD per IEC 61000-4-2 (Air)	V ESD	±30	kV
Peak Pulse Power (8/20µs)	P _{PP}	75	W
Junction Temperature	Т _{ОРТ}	-40 to 150	°C
Storage Temperature	T _{STG}	-40 to 150	°C

7. Electrical Characteristics

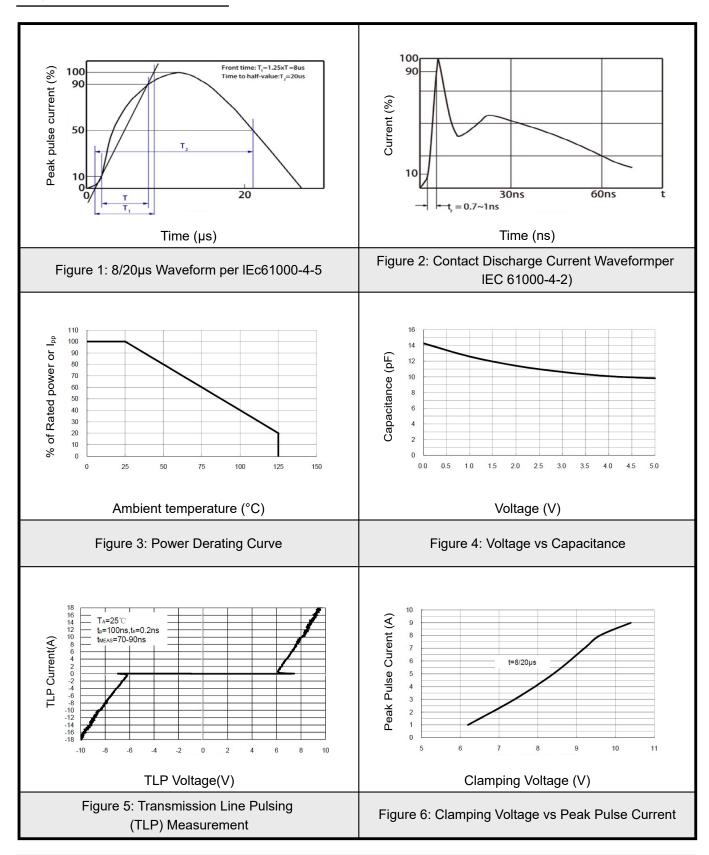
Parameter	Symbol	Conditions	Min	Тур	Max	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5.6		9	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage	Vc	I _{PP} =1A, t _p =8/20μs			9.5	V
Clamping Voltage	V _c	I _{PP} =5A, t _p =8/20μs			15	V
Junction capacitance	C _J	V _R =0V, f=1MHz			15	pF







8. Typical characteristic

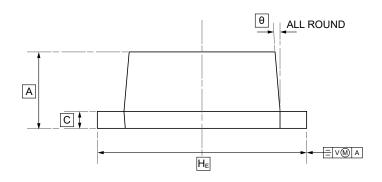


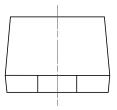


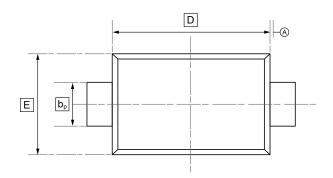




9.SOD-523 Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

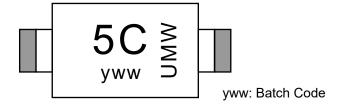
Symbol	Α	b p	С	D	E	H _E	θ
Min	0.58	0.3	0.100	1.15	0.75	1.5	5°
Max	0.68	0.4	0.135	1.25	0.85	1.7	j j







10.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW LESD5Z5.0CT1G	SOD-523	3000	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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