

UMW ESD5Z5.0C

1.Description

The ESD5Z3.3C 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.Applications

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

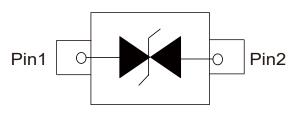
5.Pinning information

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

■ Reel size: 7 inch

MSL3



SOD-523







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

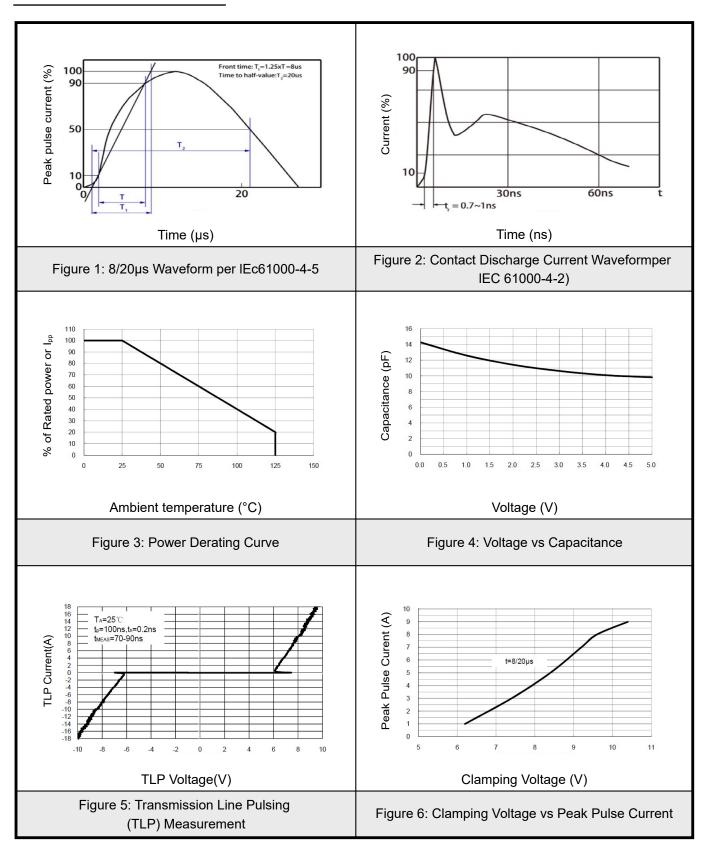
Parameter	Symbol	Conditions	Min	Тур	Max	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5.6		9	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage	Vc	I _{PP} =1A, t _p =8/20μs			9.5	V
Clamping Voltage	V _c	I _{PP} =5A, t _p =8/20μs			15	V
Junction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







8. Typical characteristic

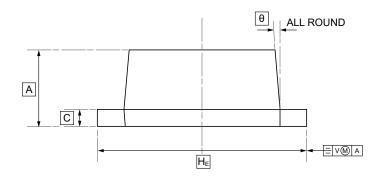


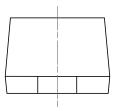


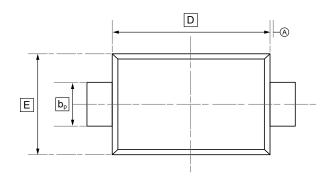




9.SOD-523 Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

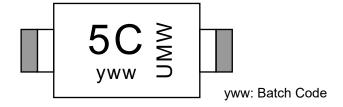
Symbol	Α	b p	С	D	E	H _E	θ	
Min	0.58	0.3	0.100	1.15	0.75	1.5	5°	
Max	0.68	0.4	0.135	1.25	0.85	1.7	5	







10.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW ESD5Z5.0C	SOD-523	3000	Tape and reel

UMW ESD5Z5.0C







11.Disclaimer

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