

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

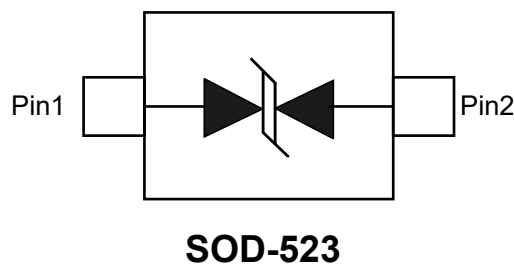
- High Speed Line :USB1.0/2.0, VGA, DVI, SDI,
- Serial and Parallel Ports
- Notebooks, Desktops, and Servers Cellular
- handsets and accessories

2.Features

- IEC61000-4-2 (ESD) $\pm 25\text{KV}$ (Air)
 $\pm 20\text{KV}$ (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- Peak power dissipation: 84W (8/20us)
- Protects one directional I/O line
- Low clamping voltage
- Working voltages : 3.3V
- Low leakage current

- Portable Instrumentation
- Projection TV
- Peripherals

4.Pinning information





5. Absolute Maximum Ratings

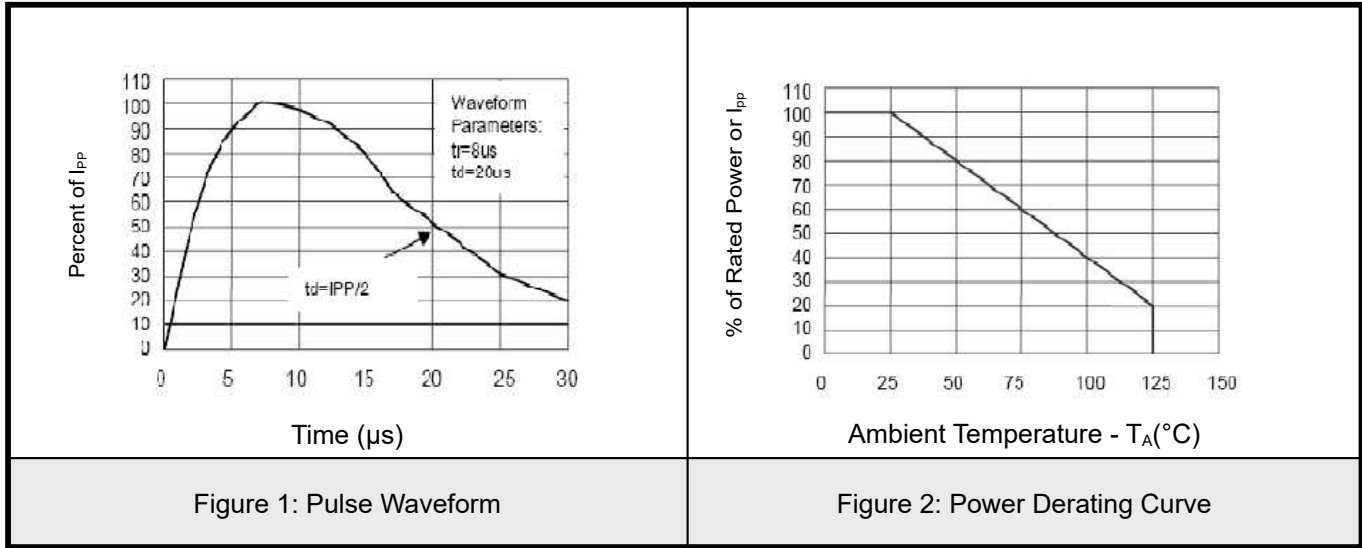
Parameter	Symbol	Value	Units
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 25	kV
ESD per IEC 61000-4-2 (Contact)		± 20	kV
Peak Pulse Power (8/20 μ s)	P_{PP}	84	W
Junction Temperature	T_{OPT}	-40 to 150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-40 to 150	$^{\circ}\text{C}$

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	3.6			V
Reverse Leakage Current	I_R	$V_{RWM}=3.3\text{V}$			1	μA
Clamping Voltage	V_C	$I_{PP}=1\text{A}$, $t_p=8/20\mu\text{s}$			8	V
Clamping Voltage	V_C	$I_{PP}=7\text{A}$, $t_p=8/20\mu\text{s}$			12	V
Junction capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$			15	pF

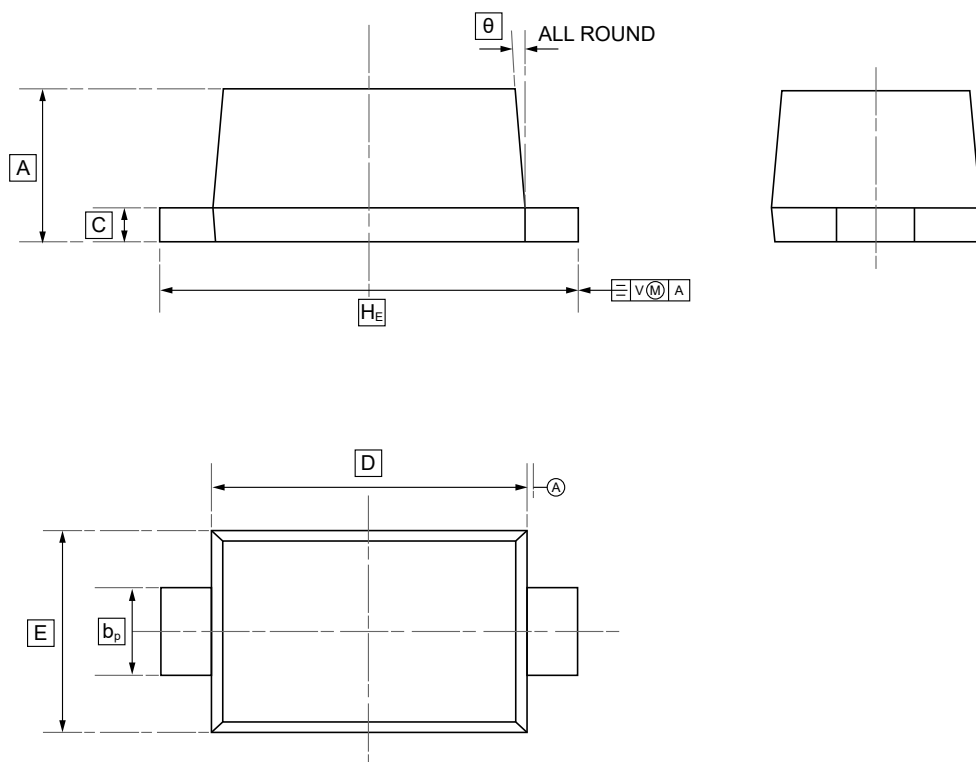


7. Typical characteristic





8.SOD-523 Package Outline Dimensions



DIMENSIONS (mm are the original dimensions)

Symbol	A	b _p	C	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	



9.Ordering information



yww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW ESD5Z3.3C	SOD-523	3000	Tape and reel



10.Disclaimer

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