

1.Features

- Protects one data or power line
 - Operating voltage : 5V
 - Ultra low clamping voltage
 - Complies with following standards :
 - -IEC 61000-4-2 (ESD) immunity test
- Air discharge : $\pm 23\text{KV}$
- Contact discharge : $\pm 20\text{k V}$

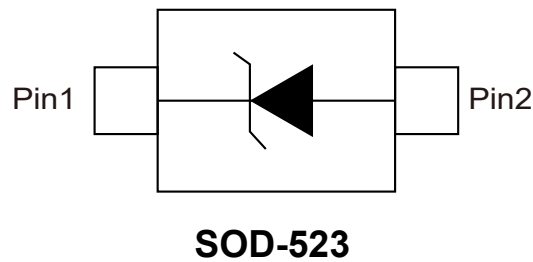
2.Applications

- Mobile Phones and Accessories
- Battery Protection
- USB VBUS
- Power Line Protection
- Hand Held Portable Applications

3.Mechanical Characteristics

- Ultra low leakage : NA level
- Case Material : Green Molding Compound

4.Pinning information





5. Absolute Maximum Ratings $T_A = 25^\circ\text{C}$

Parameter	Symbol	Value	Units
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 23	kV
ESD per IEC 61000-4-2 (Contact)		± 20	kV
Junction Temperature Range	T_J	-55 to 125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to 150	$^\circ\text{C}$

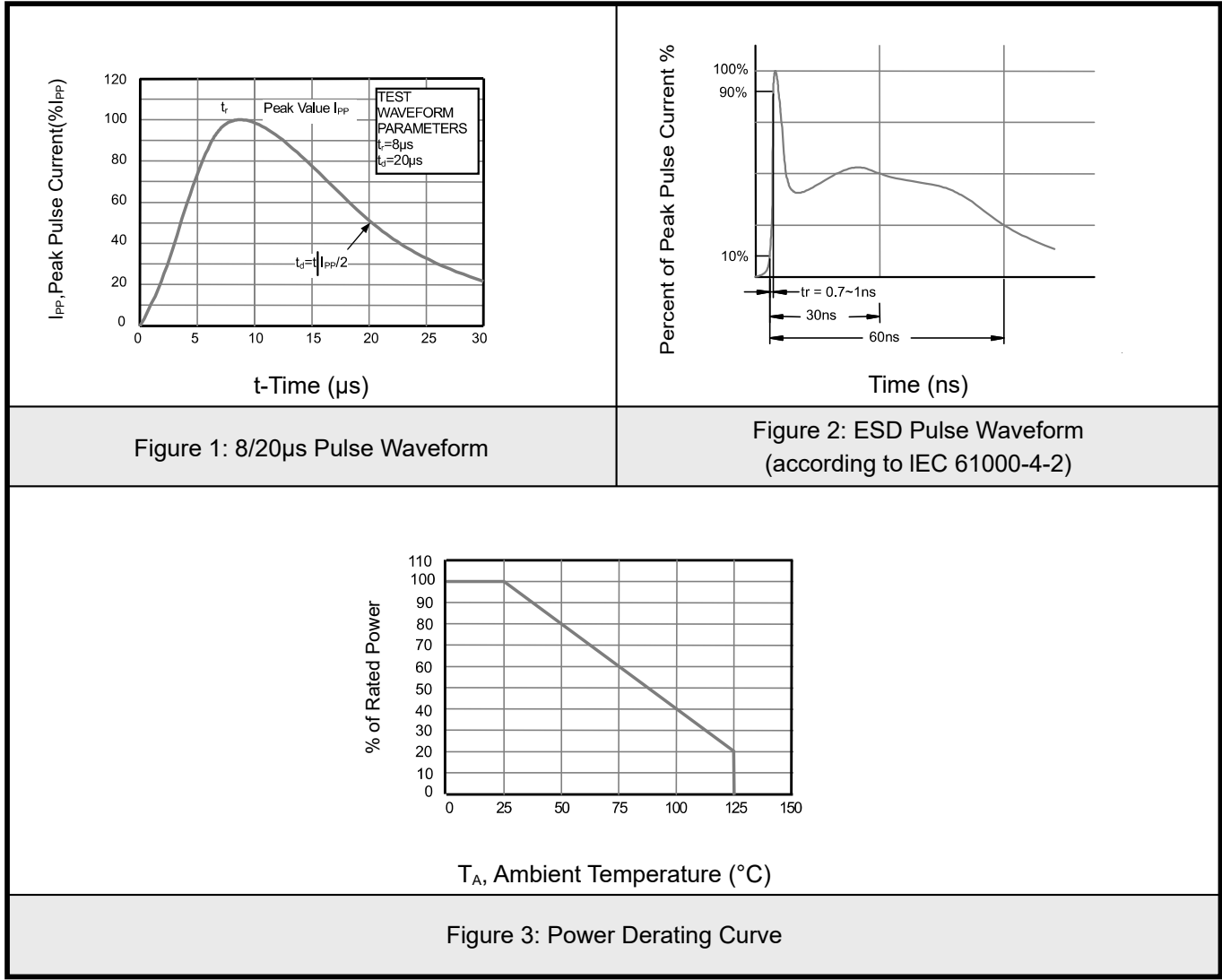


6. Electrical Characteristic ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Working Voltage	V_{RWM}				5	V
Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$ (Pin1-Pin2)	5.6		9	V
Reverse Leakage Current	I_R	$V_{RWM}=5\text{V}$ (Pin2-Pin1)			0.08	μA
Clamping Voltage	V_C	$I_{PP}=1\text{A}$ (8x20 μs pulse) (Pin1-Pin2)			9	V
Clamping Voltage	V_C	$I_{PP}=4\text{A}$ (8x20 μs pulse) (Pin1-Pin2)			15	V
Junction Capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$ (Pin1-Pin2)		0.6	0.9	pF

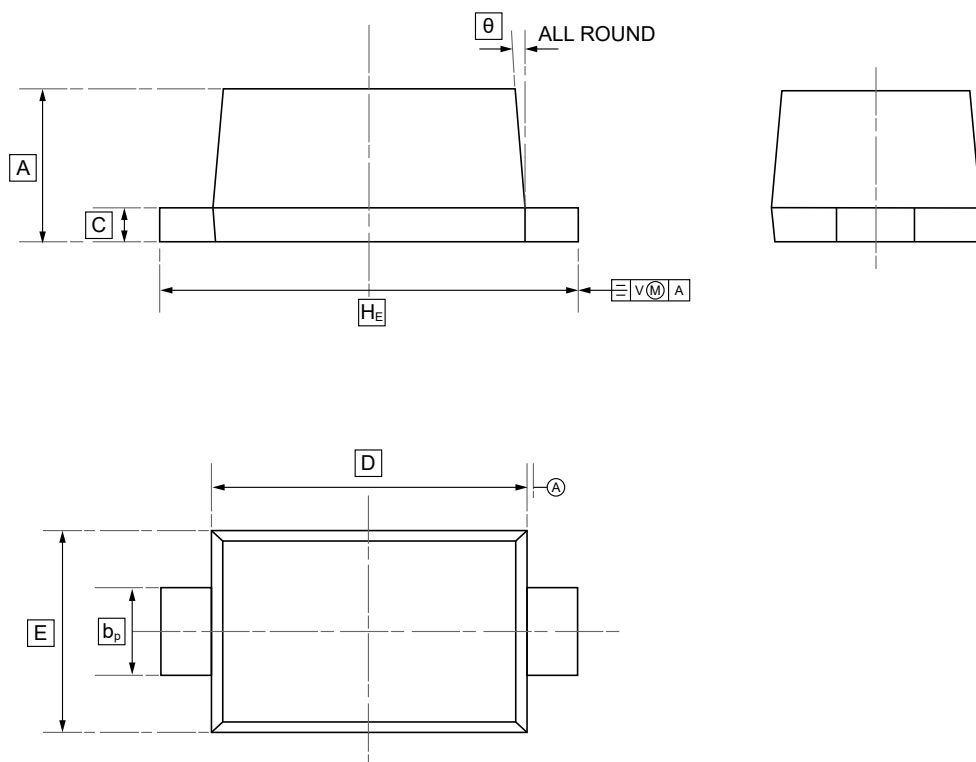


7. Typical characteristic





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



ww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW PESD5V0U1UB	SOD-523	3000	Tape and reel



10.Disclaimer

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