

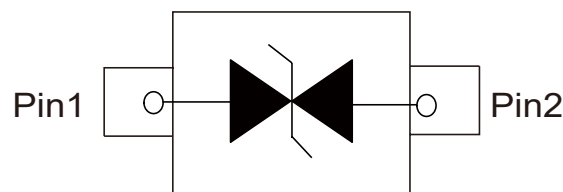
1.Features

- Complies with following standards:
 - IEC 61000 -4-2 (ESD) immunity test
 - Air discharge: $\pm 30\text{kV}$
 - Contact discharge: $\pm 30\text{kV}$
 - IEC61000 -4-4 (EFT) 40A (5/50ns)
 - IEC61000 -4-5 (Lightning) 8A (8/20 μs)
- Ultra low leakage: nA level
- Operating voltage: 5V
- Low clamping voltage
- RoHS Compliant

2.Applications

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100 Ethernet

3.Pinning information



SOD-523

4.Absolute Maximum Ratings $T_{\text{amb}} = 25^{\circ}\text{C}$

Parameter	Symbol	Value	Units
Peak Pulse Power (8/20 μs)	P_{PP}	100	W
ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 30	kV
ESD per IEC 61000-4-2 (Contact)		± 30	kV
Junction Temperature Range	T_{J}	-55 to 125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STJ}	-55 to 150	$^{\circ}\text{C}$

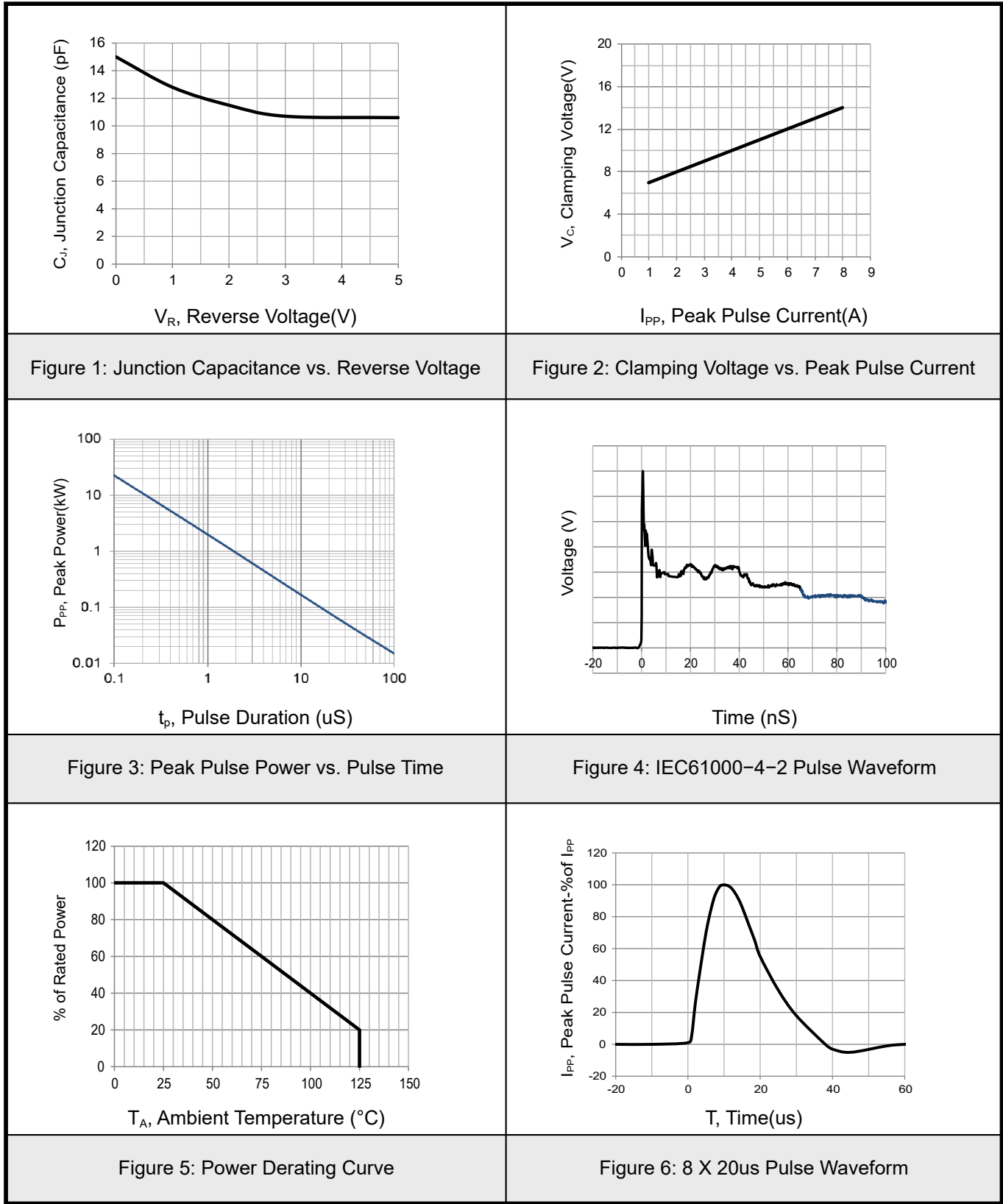


5. Electrical Characteristic ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Working Voltage	V_{RWM}				5	V
Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	5.5			V
Reverse Leakage Current	I_R	$V_{RWM}=5\text{V}$			1	μA
Clamping Voltage	V_C	$I_{PP}=1\text{A}(8 \times 20\mu\text{s pulse})$			9	V
Clamping Voltage	V_C	$I_{PP}=8\text{A}(8 \times 20\mu\text{s pulse})$			12	V
Junction Capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$		15		pF

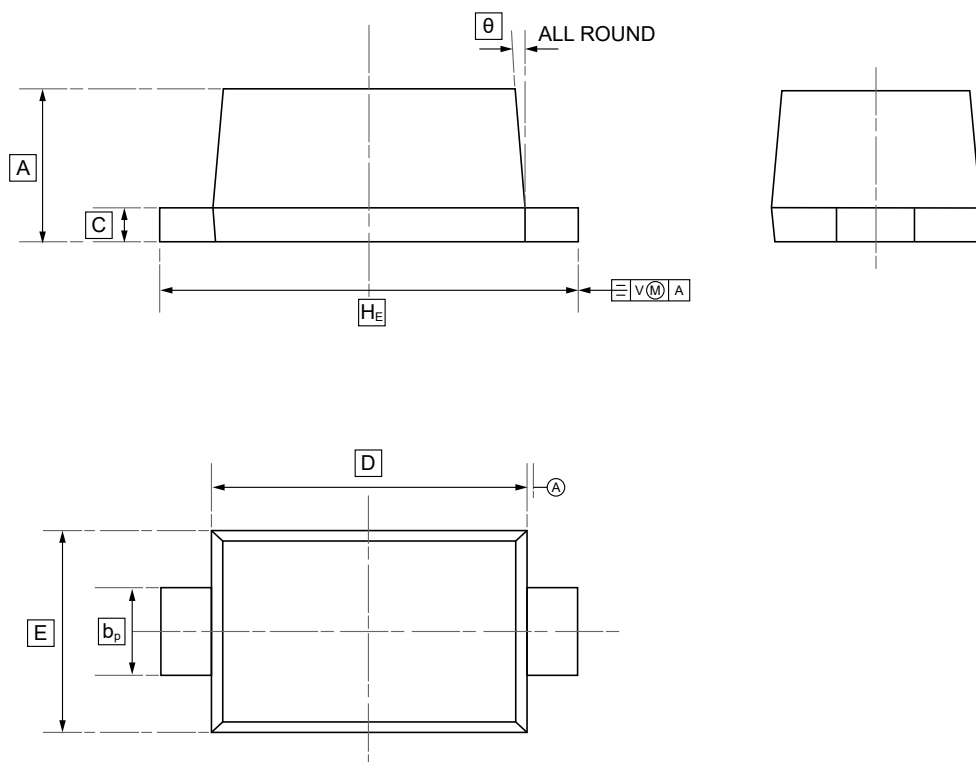


6. Typical characteristic





7.SOD-523 Package Outline Dimensions

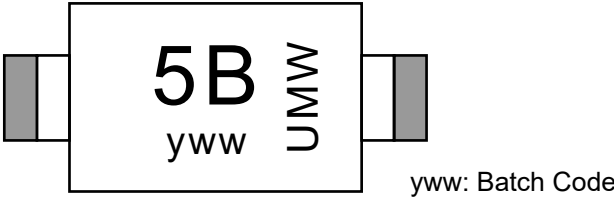


DIMENSIONS (mm are the original dimensions)

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	



8.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW PJSD05CTS	SOD-523	3000	Tape and reel



9.Disclaimer

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