

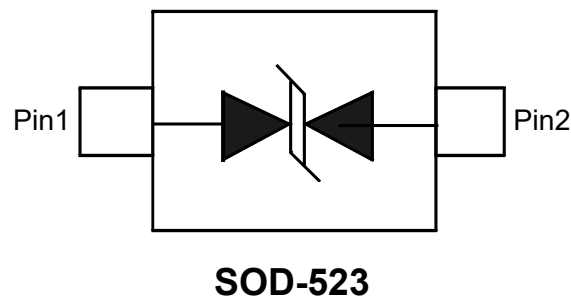
1.Features

- 60Watts peak pulse power ($t_p=8/20\mu s$)
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Low capacitance ($C_J=0.5pF$ typ.)
- Protection one data/power line
- IEC 61000-4-2 $\pm 15kV$ contact $\pm 20kV$ air
- IEC 61000-4-4 (EFT) 40A(5/50ns)
- IEC 61000-4-5 (Lightning) 3A(8/20 μs)

2.Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation

3.Pinning information



4. Absolute Maximum Ratings

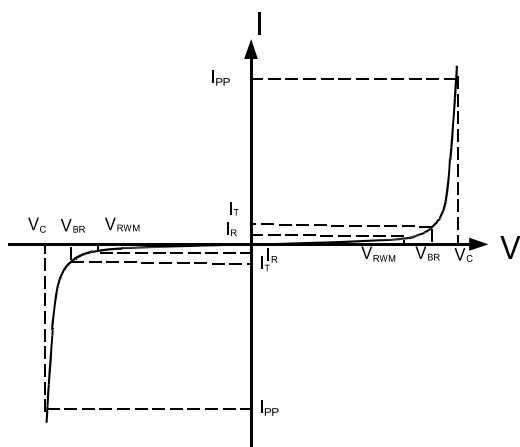
Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	60	Watts
Peak Pulse Current ($t_p=8/20\mu s$)(note1)	I_{PP}	3	A
ESD per IEC 61000-4-2(Air)	V_{ESD}	20	kV
ESD per IEC 61000-4-2(Contact)		15	kV
Lead Soldering Temperature	T_L	260(10seconds)	°C
Junction Temperature	T_J	-55 to 125	°C
Storage Temperature	T_{STG}	-55 to 125	°C



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

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	6	8.5		V
Reverse Leakage Current	I_R	$V_{RWM}=5\text{V}$, $T=25^\circ\text{C}$		0.1	0.5	μA
Peak Pulse Current	I_{PP}	$t_p=8/20\mu\text{s}$			3	A
Clamping Voltage	V_C	$I_{PP}=3\text{A}$, $t_p=8/20\mu\text{s}$			20	V
Junction capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$		0.5	0.9	pF

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

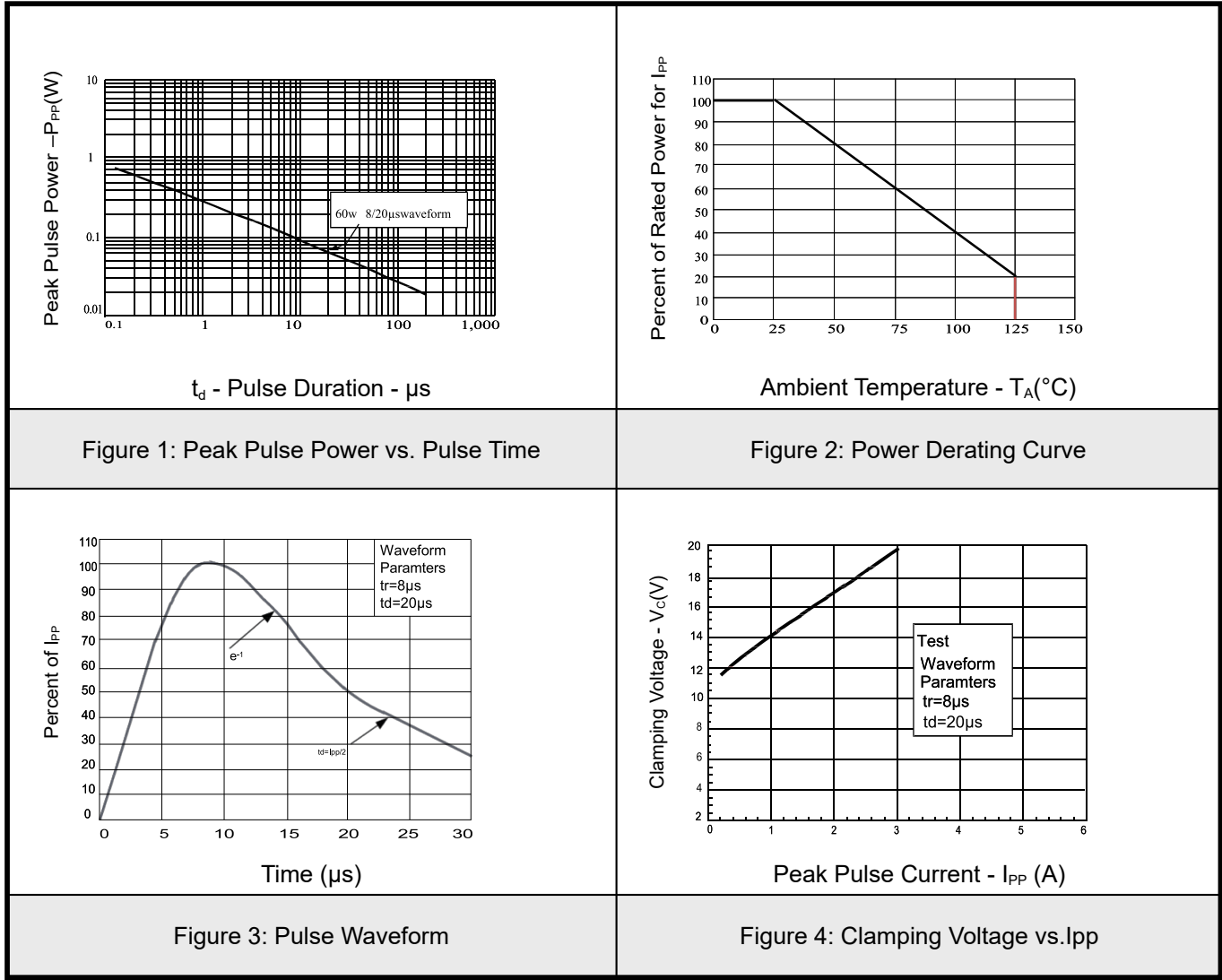


Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current

Notes: 8/20 μs pulse waveform.

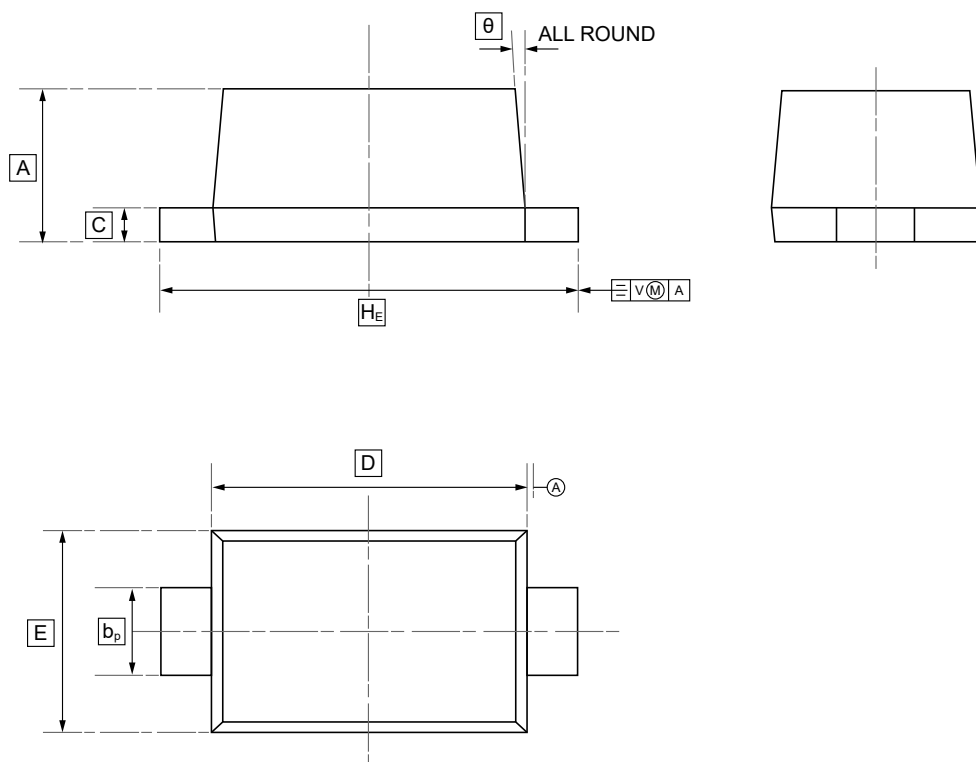


7. Typical characteristic





8.SOD-523 Package Outline Dimensions

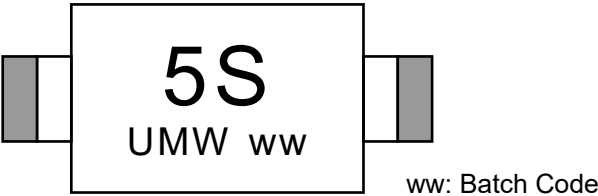


DIMENSIONS (mm are the original dimensions)

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



Order Code	Package	Base QTY	Delivery Mode
UMW BSD5C051U	SOD-523	3000	Tape and reel



10.Disclaimer

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