

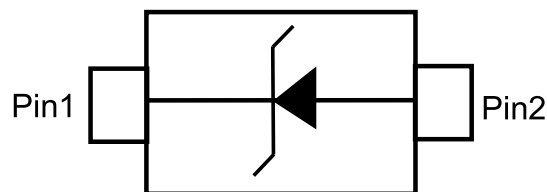
1.Features

- 400Watts peak pulse power ($t_p=8/20\mu s$)
- Unidirectional configurations
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 8kV$ contact $\pm 15kV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 15A (8/20 μs)

2.Applications

- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

3.Pinning information



SOD-523



4. Absolute Maximum Rating

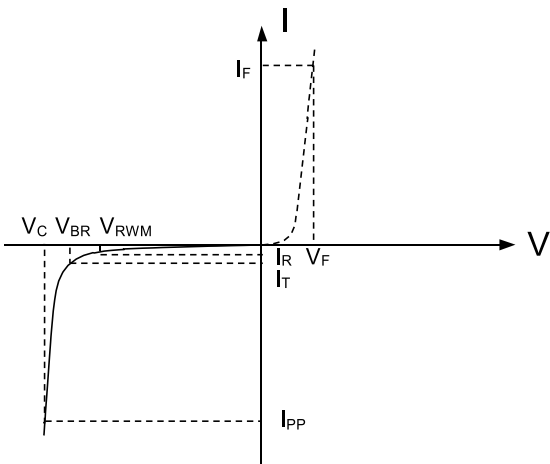
Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	400	Watts
Peak Pulse Current ($t_p=8/20\mu s$)(note1)	I_{PP}	15	A
ESD per IEC 61000-4-2(Air)	V_{ESD}	15	kV
ESD per IEC 61000-4-2(Contact)		8	kV
Lead Soldering Temperature	T_L	260(10seconds)	°C
Junction Temperature	T_J	-55 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C



5.Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				7	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	8			V
Reverse Leakage Current	I_R	$V_{RWM}=7V, T=25^{\circ}C$			1	μA
Clamping Voltage	V_C	$I_{PP}=15A, t_p=8/20\mu s$			25	V
Junction capacitance	C_J	$V_R=0V, f=1MHz$		100		pF

6.Electrical Parameters

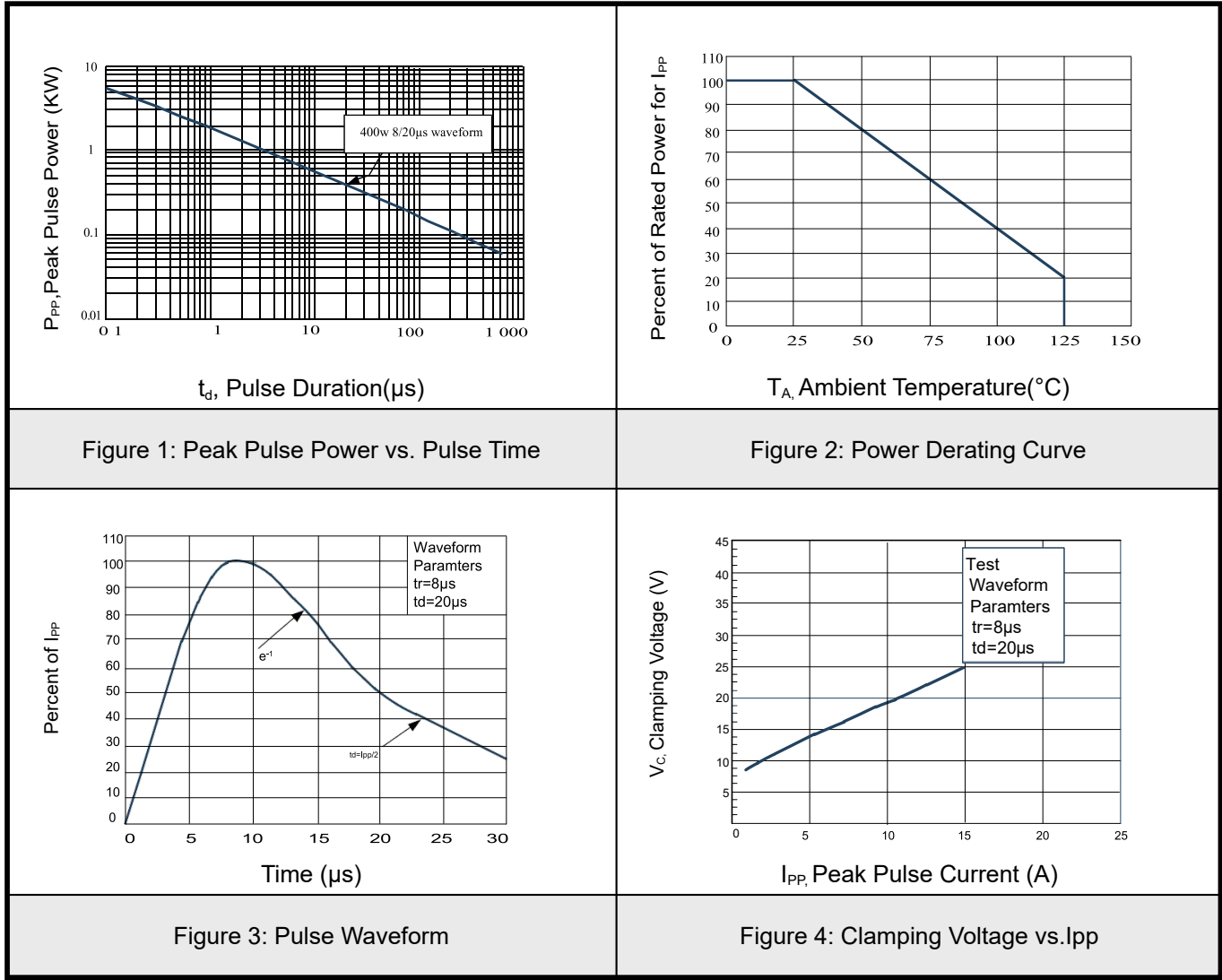


Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current

Notes: 8/20 μs pulse waveform.

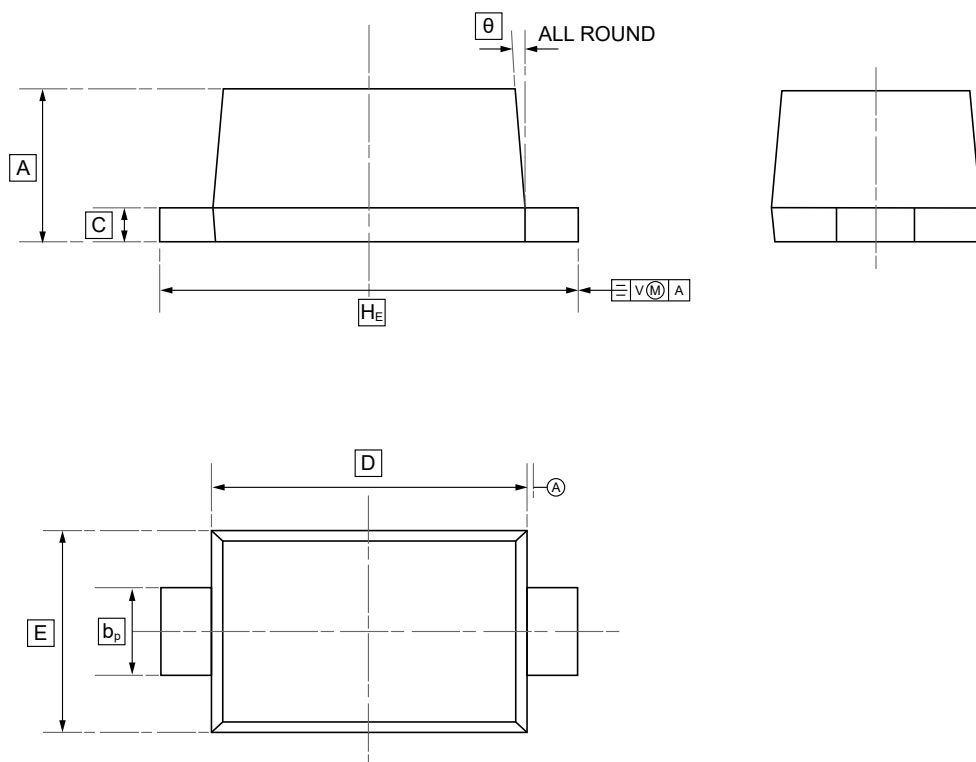


7. Typical characteristic





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



ww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW BSD5A071V35	SOD-523	3000	Tape and reel



10.Disclaimer

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