

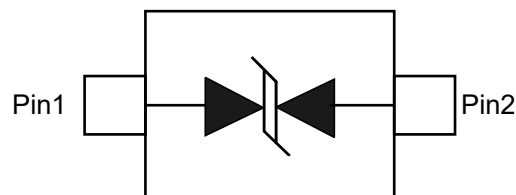
1.Features

- 500Watts peak pulse power ($t_p=8/20\mu s$)
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 30kV$ contact $\pm 30kV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 40A (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-323



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

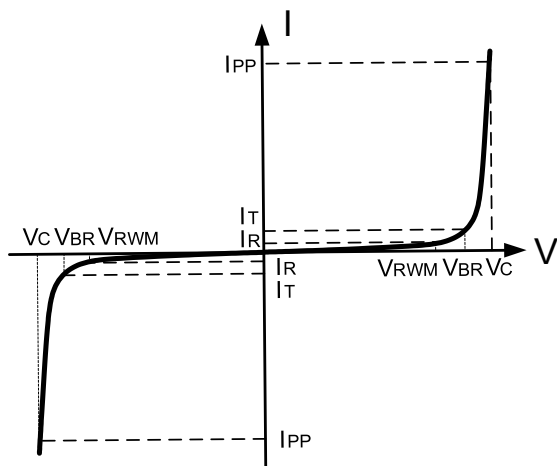
Parameter	Symbol	Maximum	Units
Peak Pulse Power ($t_p=8/20\mu\text{s}$)	P_{PP}	500	Watts
Peak Pulse Current ($t_p=8/20\mu\text{s}$)(note1)	I_{PP}	40	A
ESD per IEC 61000-4-2(Air)	V_{ESD}	30	kV
ESD per IEC 61000-4-2(Contact)		30	kV
Lead Soldering Temperature	T_L	260(10seconds)	$^\circ\text{C}$
Junction Temperature	T_J	-55 to 150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to 150	$^\circ\text{C}$



5.Electrical Characteristic (T_A=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	4			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V, T=25°C			0.5	uA
Clamping Voltage	V _C	I _{pp} =40A, tp=8/20μs			13	V
Junction capacitance	C _J	V _R =0V, f=1MHz		90		pF

6.Electrical Parameters (T_A=25°C unless otherwise noted)

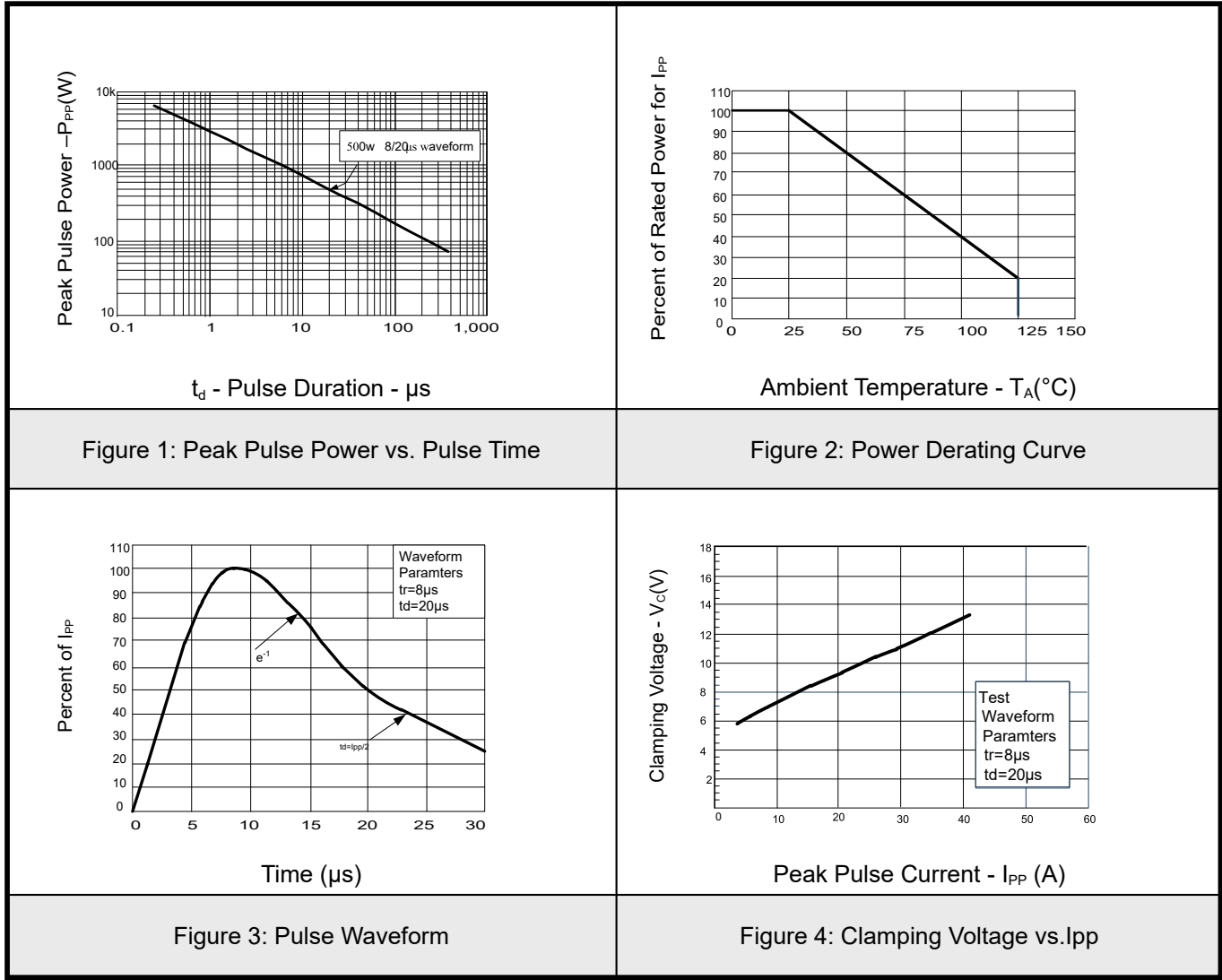


Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current

Notes: 8/20μs pulse waveform.

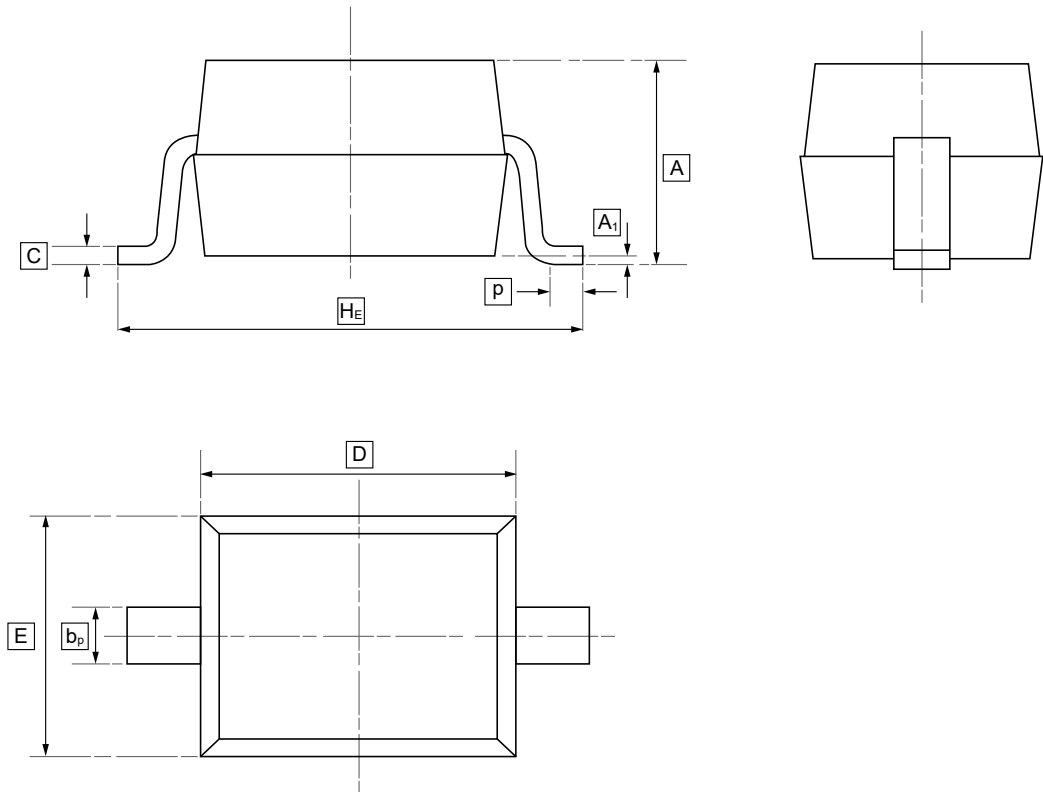


7. Typical characteristic





8.SOD-323 Package Outline Dimensions

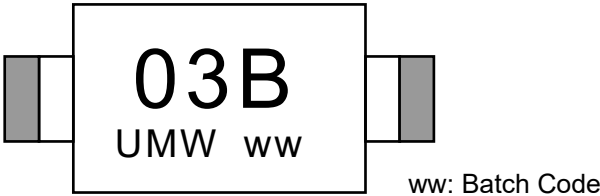


DIMENSIONS (mm are the original dimensions)

Symbol	A	bp	C	D	E	HE	A ₁	p
Min	0.90	0.25	0.10	1.60	1.15	2.30	0.01	0.20
Max	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50



9.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW DW03D	SOD-323	3000	Tape and reel



10.Disclaimer

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