

1.Features

- 320W 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) 10A (8/20 μs)

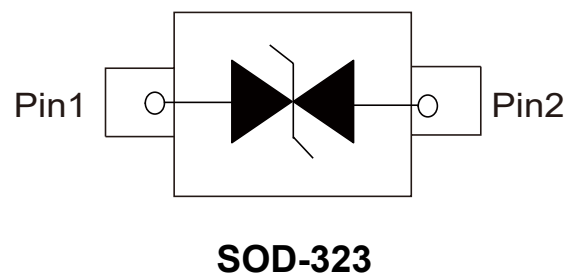
2.Applications

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

3.Mechanical Data

- SOD323 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

4.Pinning information





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

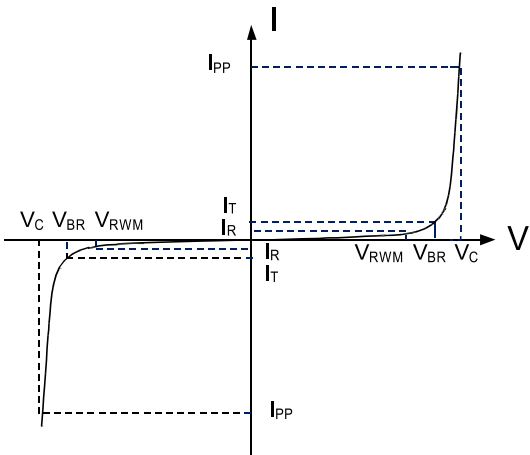
Parameter	Symbol	Maximum	Units
Peak Pulse Power ($t_p = 8/20\mu\text{s}$)	P_{PP}	320	W
Peak Pulse Current ($t_p = 8/20\mu\text{s}$) (note1)	I_{PP}	10	A
ESD per IEC 61000-4-2 (Air)	V_{ESD}	30	kV
ESD per IEC 61000-4-2 (Contact)		30	kV
Lead Soldering Temperature	T_L	260	$^\circ\text{C}$
Junction Temperature	T_J	-55 to 150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to 150	$^\circ\text{C}$



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

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				15	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	16.7			V
Reverse Leakage Current	I _R	V _{RWM} =15V, T=25°C			0.5	μA
Clamping Voltage	V _C	I _{PP} =10A, t _p =8/20μs			32	V
Junction Capacitance	C _J	V _R =0V, f=1MHz		20		pF

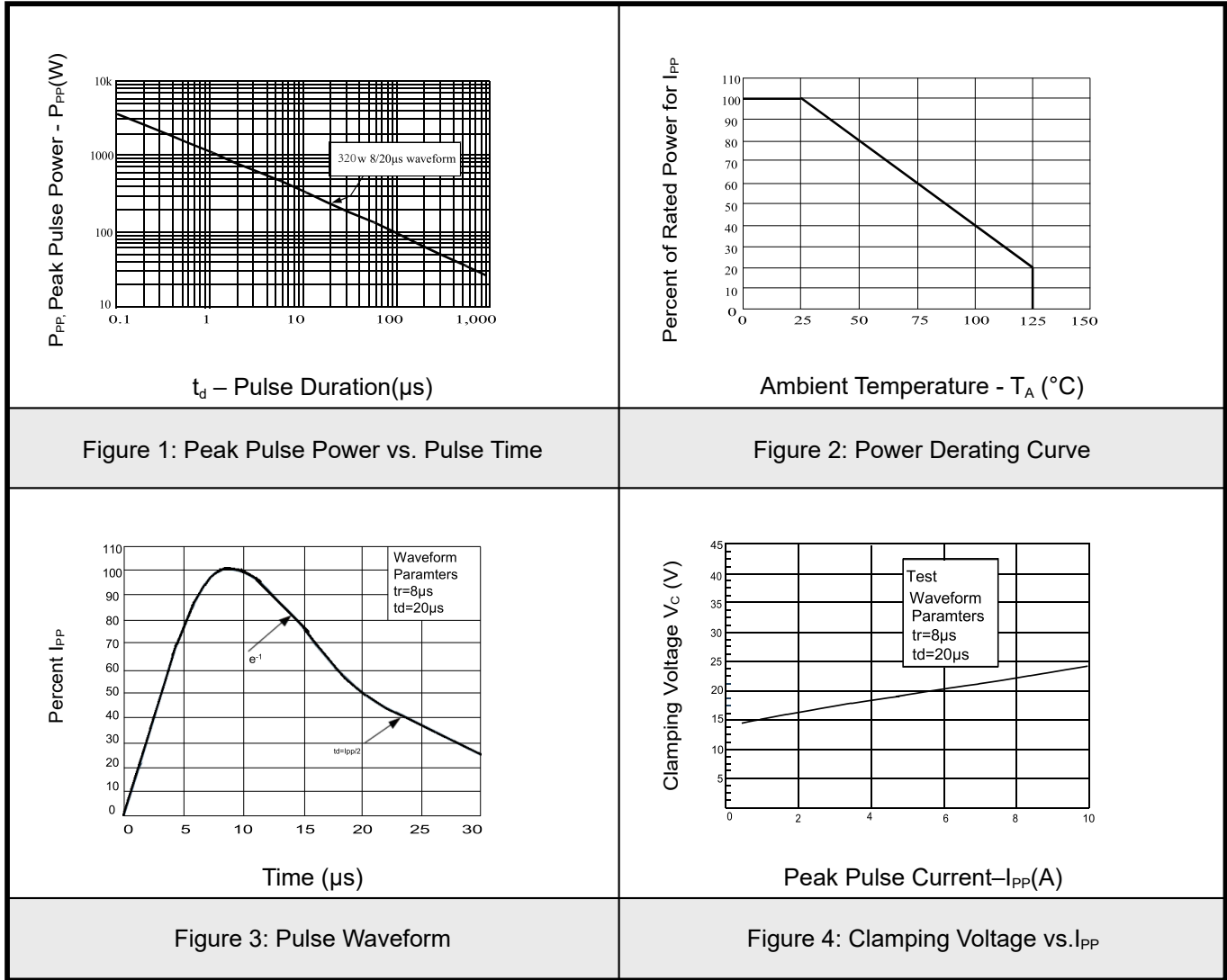
7.Electrical Parameters (T_A=25°C unless otherwise noted)



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

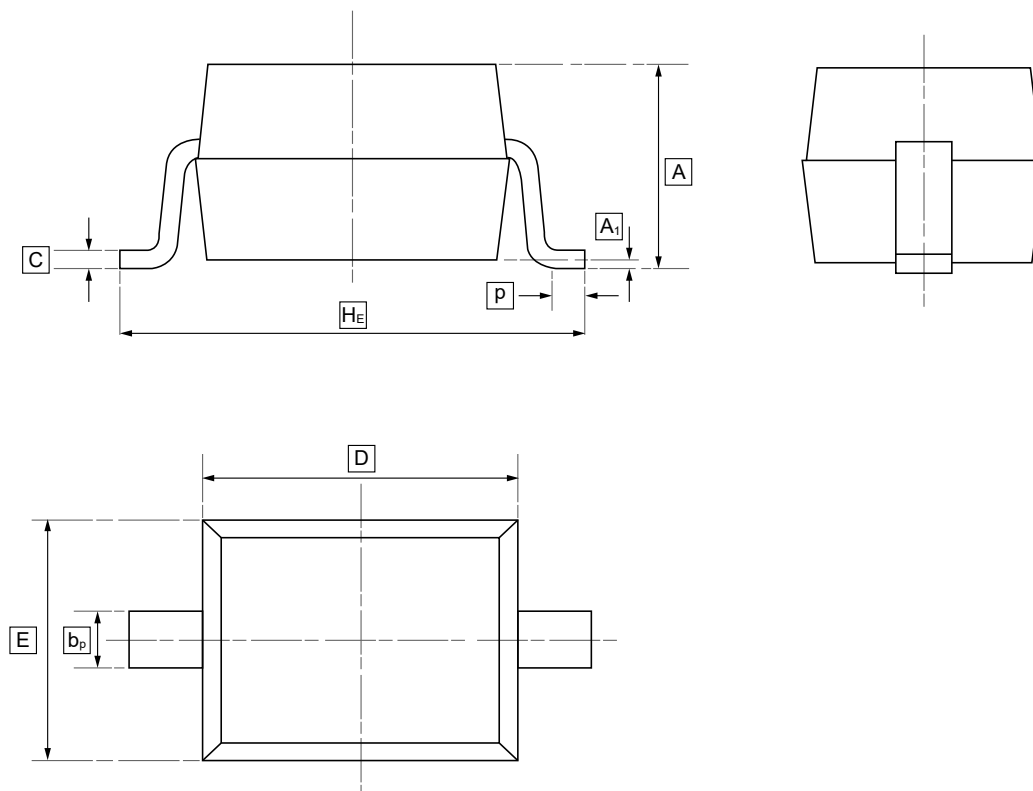


8. Typical characteristic





9.SOD-323 Package Outline Dimensions

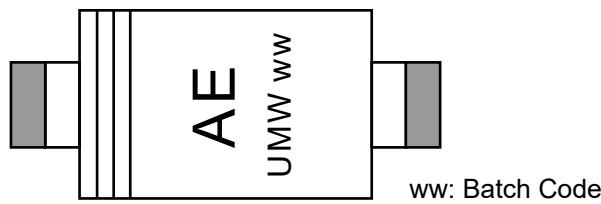


DIMENSIONS (mm are the original dimensions)

Symbol	A	b_p	C	D	E	H_E	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



10.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW PESD15VL1BA	SOD-323	3000	Tape and reel



11.Disclaimer

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