

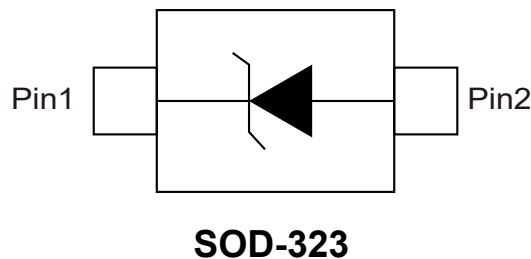
1.Features

- 360W peak pulse power ($t_p = 8/20\mu s$)
- Unidirectional 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) 20A (8/20 μs)

2.Applications

- USB Vbus,
- Power Line
- Power management
- SOD323 package
- Packaging: Tape and Reel
- RoHS/WEEE Compliant
- Molding compound flammability rating: UL94V-0

3.Pinning information





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}	360	W
Peak Pulse Current ($t_p=8/20\mu\text{s}$) (note1)	I_{PP}	20	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	$^\circ\text{C}$

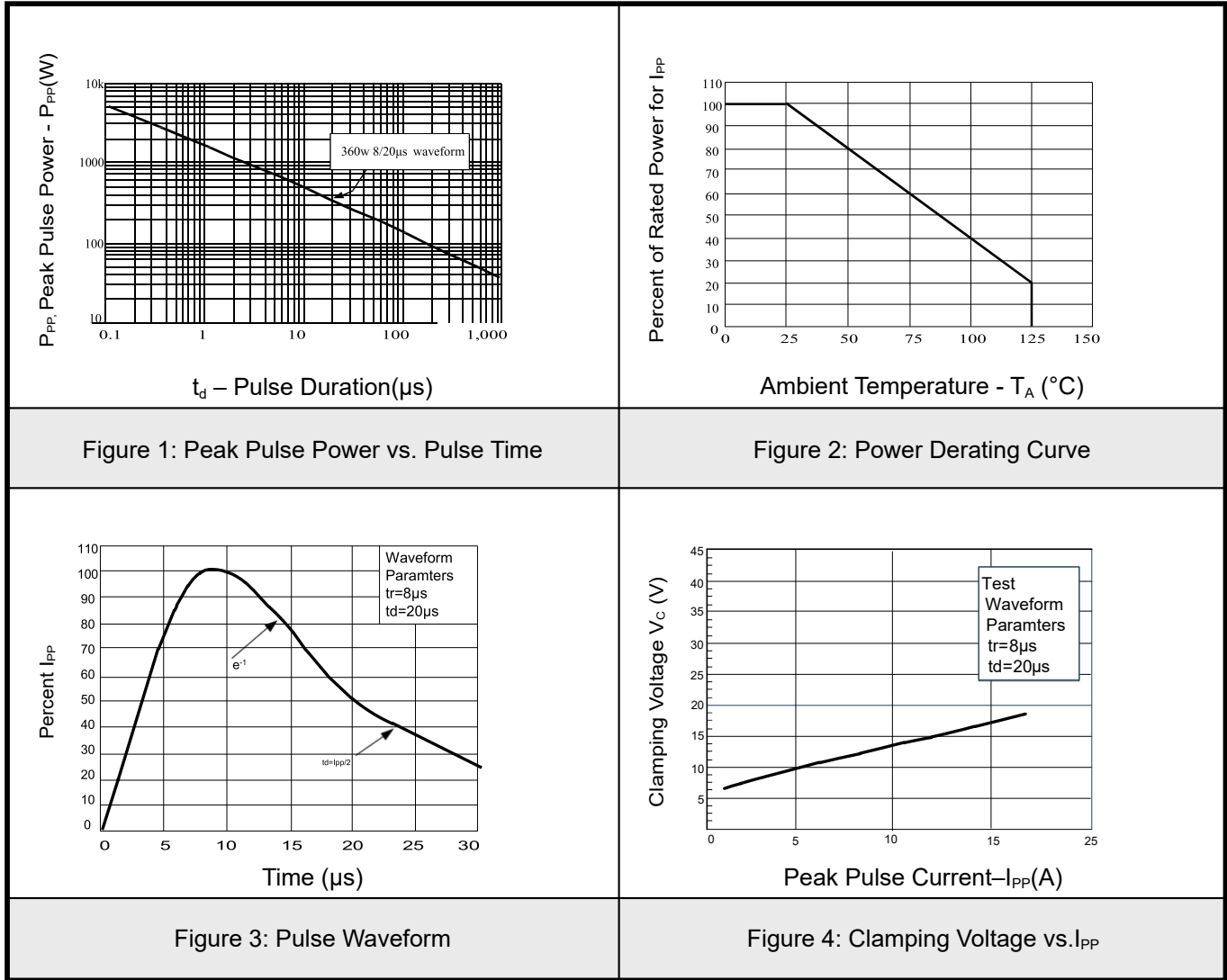


5. Electrical Characteristic ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

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			V
Reverse Leakage Current	I_R	$V_{RWM}=5\text{V}$, $T=25^{\circ}\text{C}$			1	μA
Clamping Voltage	V_C	$I_{PP}=20\text{A}$, $t_p=8/20\mu\text{s}$		17	19	V
Junction Capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$		120	135	pF

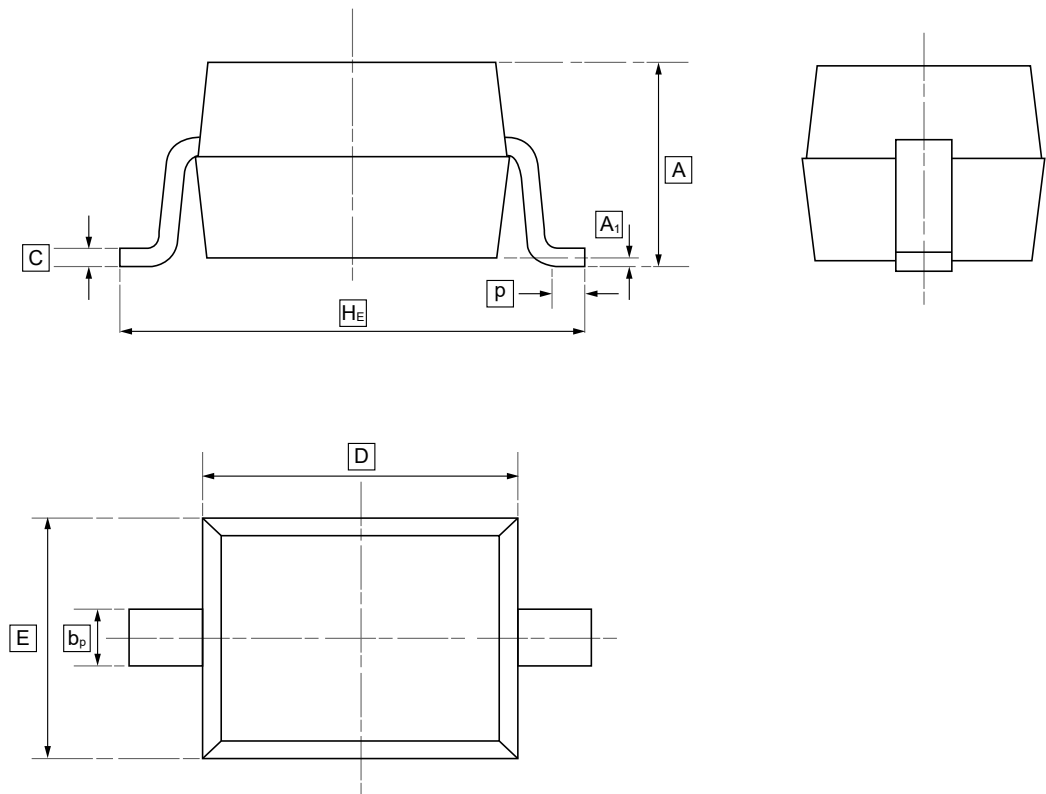


6. Typical characteristic





7.SOD-323 Package Outline Dimensions

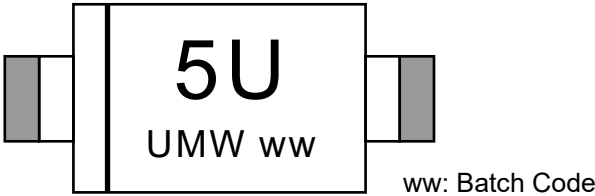


DIMENSIONS (mm are the original dimensions)

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



8.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW SD05.TCT	SOD-323	3000	Tape and reel



9.Disclaimer

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