

UMW BSD5C031V

1.Features

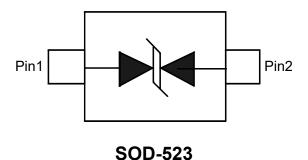
- 100Watts peak pulse power (t_p=8/20µs)
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- 2.Applications
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

- Low clamping voltage
- Low leakage current

3. Mechanical Data

- SOD-523 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS Compliant

4. Pinning information









5.Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Peak Pulse Power (t _p =8/20μs)	P_{PP}	100	Watts
Peak Pulse Current (t _p =8/20μs)(note1)	I _{PP}	10	Α
ESD per IEC 61000-4-2(Air)	V	25	kV
ESD per IEC 61000-4-2(Contact)	V_{ESD}	25	kV
Lead Soldering Temperature	T∟	260(10seconds)	°C
Junction Temperature	TJ	-55 to 150	°C
Storage Temperature	T _{STG}	-55 to 150	°C



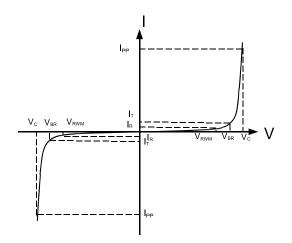




6.Electrical Characteristic (T_A=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Тур	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	3.8		5	V
Reverse Leakage Current	I _R	V _{RWM} =5V, T=25°C			500	uA
Clamping Voltage	Vc	I _{PP} =10A, t _p =8/20µs			10	V
Junction capacitance	C _J	V _R =0V, f=1MHz		13	15	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 _⊤					
Ι _τ	Test Current					

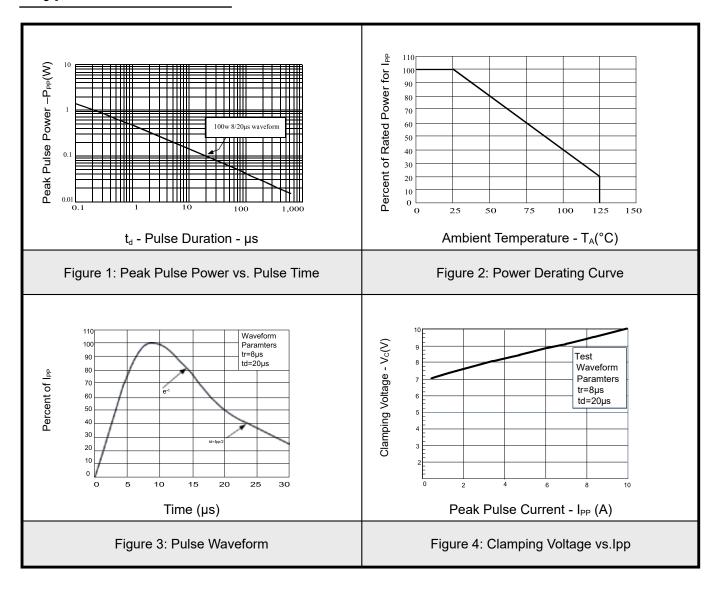
Notes: 8/20µs pulse waveform.







8. Typical characteristic

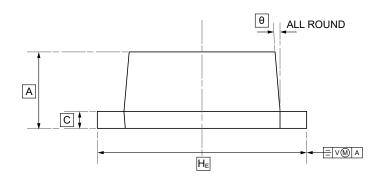


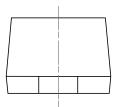


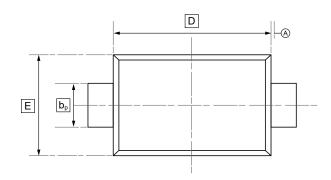




9.SOD-523 Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

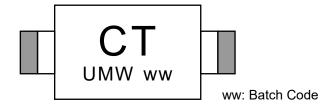
Symbol	Α	b p	С	D	E	H _E	θ
Min	0.58	0.3	0.100	1.15	0.75	1.5	5°
Max	0.68	0.4	0.135	1.25	0.85	1.7	ວ







10.Ordering information



Order Code	Package	Base QTY	Delivery Mode	
UMW BSD5C031V SOD-523		3000	Tape and reel	

UMW BSD5C031V







11.Disclaimer

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