

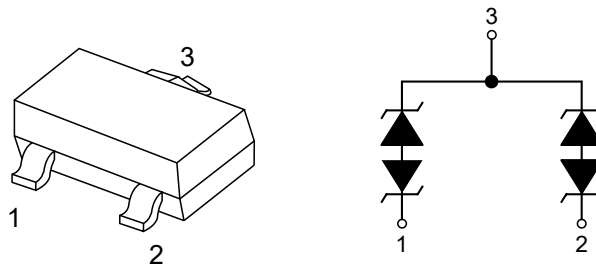
1.Features

- 280 Watts 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) 6A(8/20 μs)

2.Applications

- Dataline
- Automatic Teller Machines
- Net works
- Power line

3.Pinning information



SOT-23

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

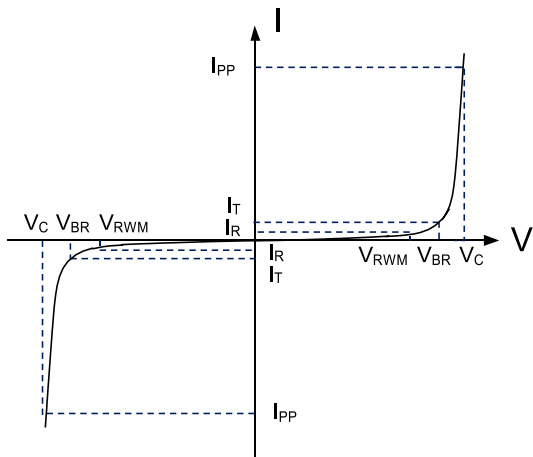
Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	280	Watts
Peak Pulse Current ($t_p=8/20\mu s$)(note1)	I_{PP}	6	A
ESD per IEC 61000-4-2(Air)	V_{ESD}	30	kV
ESD per IEC 61000-4-2(Contact)		30	kV
Lead Soldering Temperature	T_L	260(10seconds)	$^\circ C$
Junction Temperature	T_J	-55 to 125	$^\circ C$
Storage Temperature	T_{STG}	-55 to 125	$^\circ C$



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

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	26.7	30	34	V
Reverse Leakage Current	I _R	V _{RWM} =24V, T=25°C		0.1	0.5	μA
Peak PulseCurrent	I _{PP}	t _p =8/20μs			6	A
Clamping Voltage	V _C	I _{PP} =6A, t _p =8/20μs		48	55	V
Junction capacitance	C _J	V _R =0V, f=1MHz		12	15	pF

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

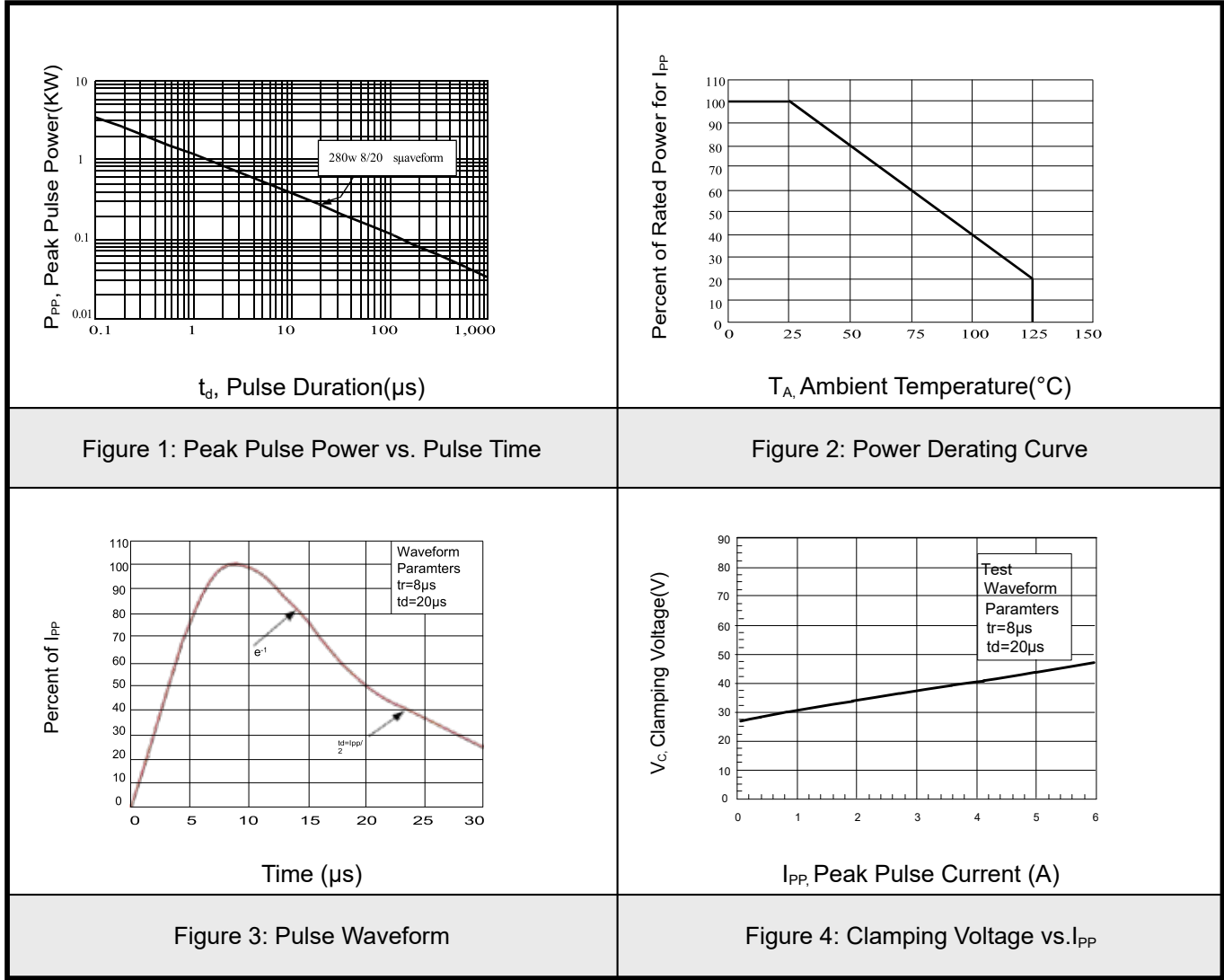


Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current

Notes: 8/20μs pulse waveform.

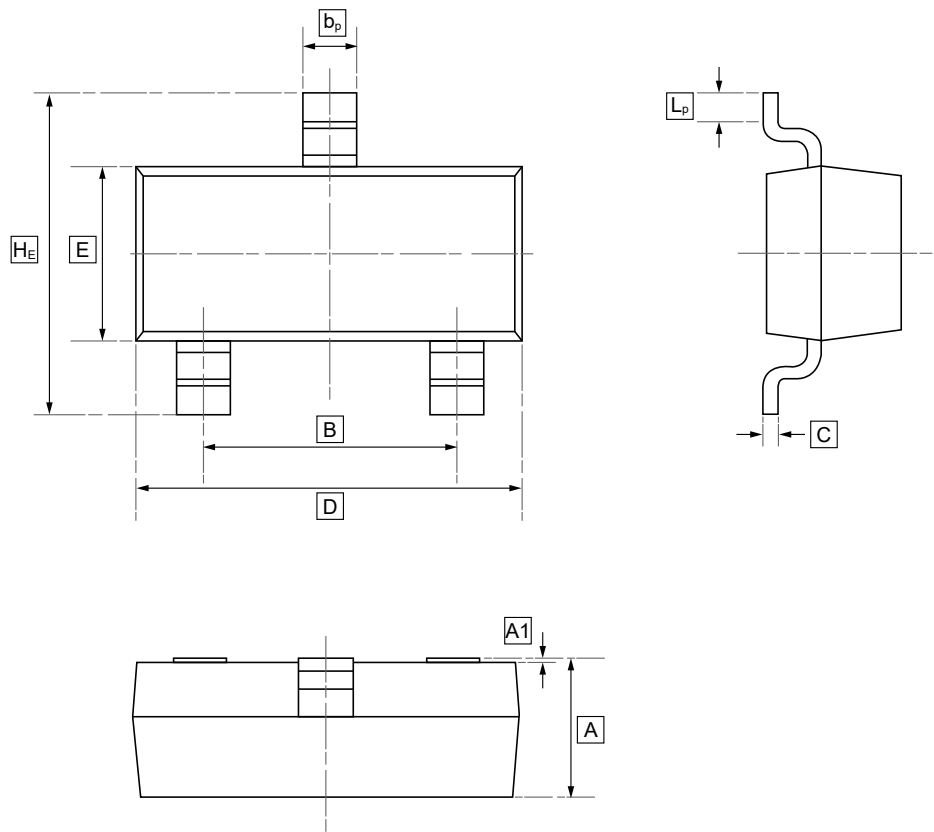


7. Typical characteristic





8.SOT-23 Package Outline Dimensions

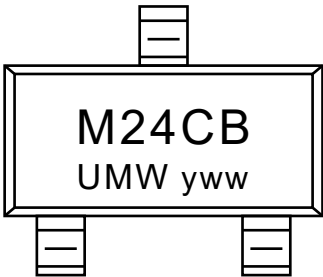


DIMENSIONS (mm are the original dimensions)

Symbol	A	B	b _p	C	D	E	H _E	A1	L _p
Min	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20
Max	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50



9.Ordering information



yww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW SM24CANB-02HTG	SOT-23	3000	Tape and reel



10.Disclaimer

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