

1.Features

- 400 Wattspeak 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)

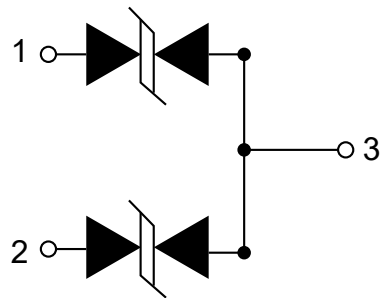
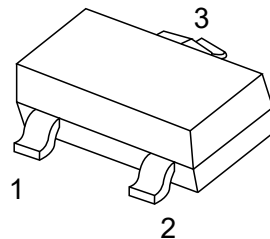
3.Mechanical Data

- SOT-23 package
- Molding compound flammability rating: UL 94V-0

2.Applications

- Dateline
- Automatic Teller Machines
- Net works
- Powerline

4.Pinning Information



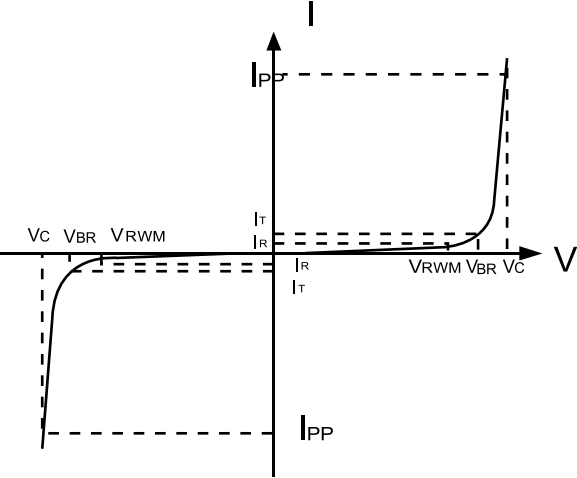
SOT-23



5.Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	400	Watts
Peak Pulse Current ($t_p=8/20\mu s$) (note1)	I_{PP}	24	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	$^{\circ}C$

6.Electrical Parameters (T=25 $^{\circ}C$ unless otherwisenoted)



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

Note: 8/20 μs pulse waveform.

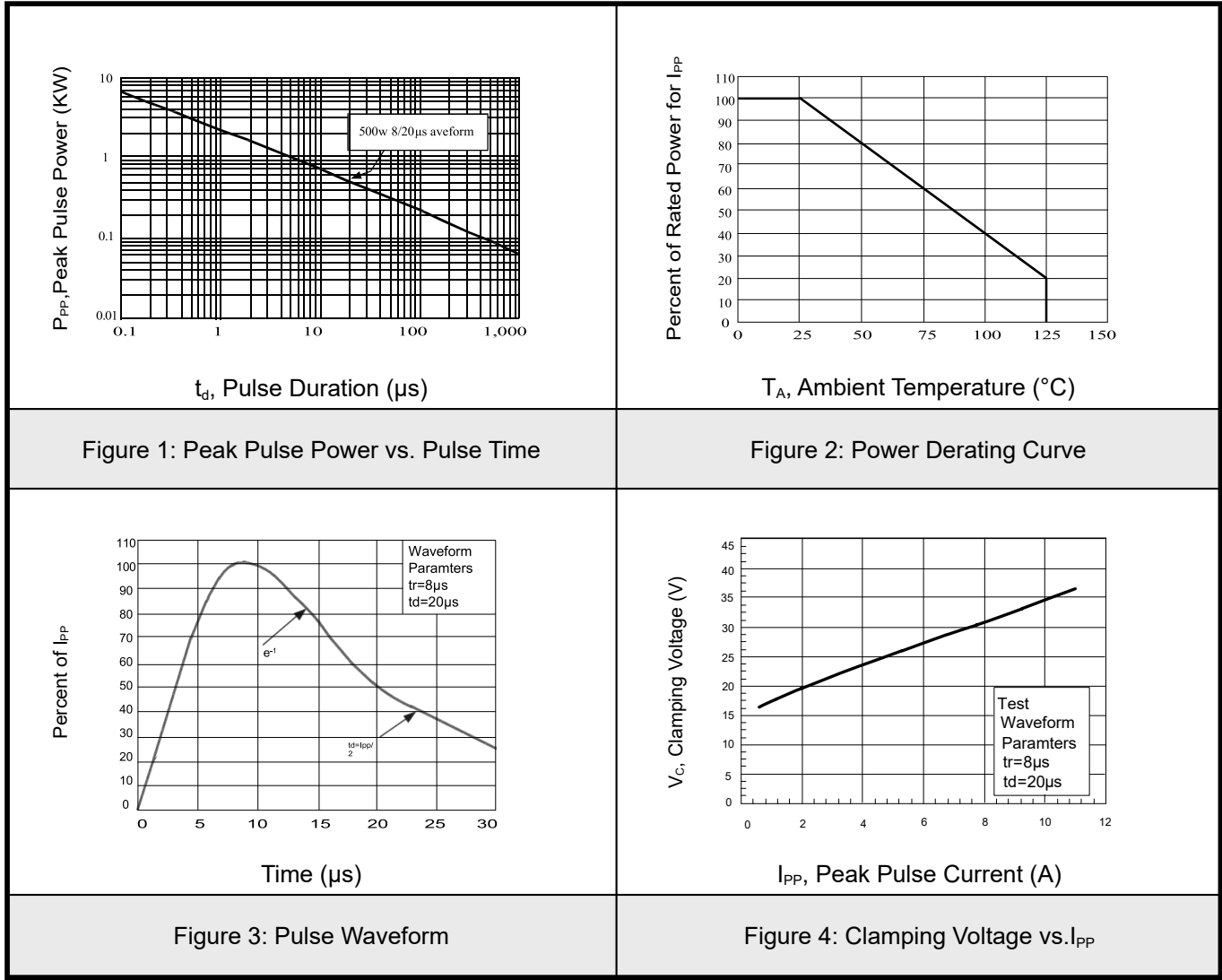


7. Electrical Characteristic (BST23C032V)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				3	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	4	6.5	8	V
Reverse Leakage Current	I_R	$V_{RWM}=3V, T=25^{\circ}C$		0.1	0.5	μA
Peak Pulse Current	I_{PP}	$t_p=8/20\mu s$			24	A
Clamping Voltage	V_C	$I_{PP}=24A, t_p=8/20\mu s$			18	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$ (Pin1, Pin2to Pin3)		100	110	pF

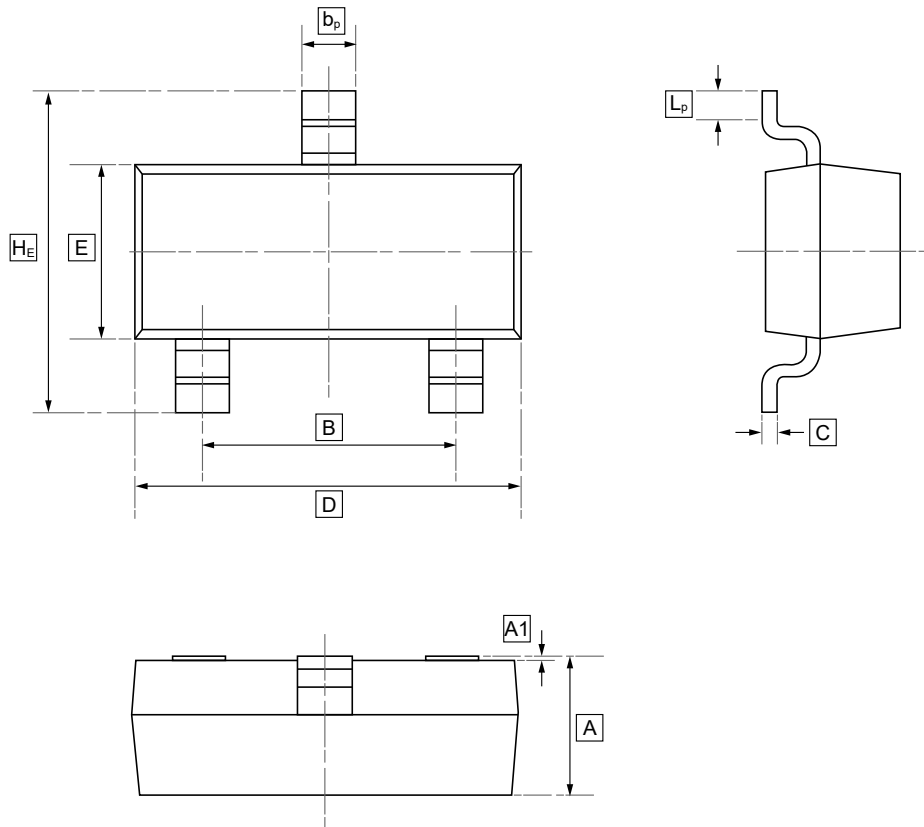


8. Typical Characteristic





9.SOT-23 Package Outline Dimensions

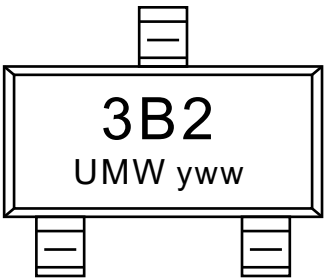


DIMENSIONS (mm are the original dimensions)

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



10.Ordering Information



yww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW BST23C032V	SOT-23	3000	Tape and reel



11.Disclaimer

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