

## 1.Features

- 400W 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) 24A(8/20 $\mu s$ )

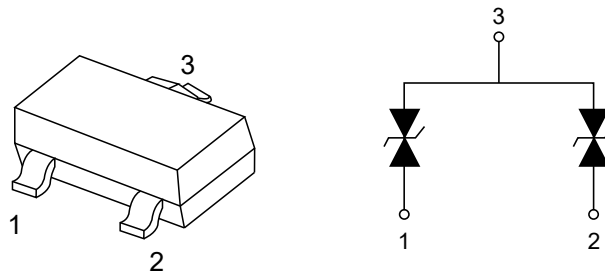
## 2.Applications

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

## 3.Mechanical Data

- SOT-23 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

## 4.Pinning information



**SOT-23**



## 5. Absolute Maximum Ratings

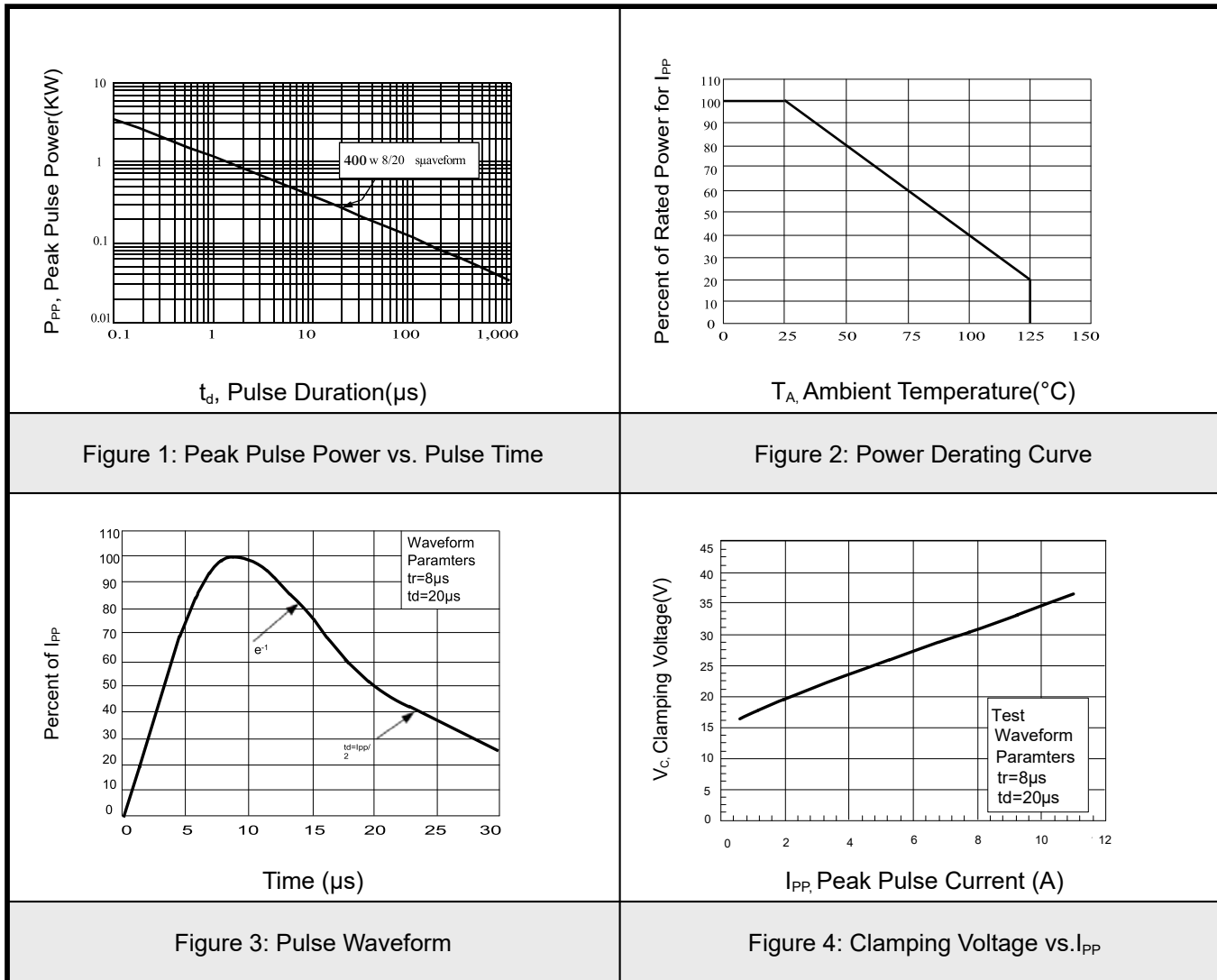
Parameter	Symbol	Value	Units
Peak Pulse Power ( $t_p=8/20\mu s$ )	$P_{PP}$	400	W
Peak Pulse Current ( $t_p=8/20\mu s$ )(note1)	$I_{PP}$	24	A
ESD per IEC 61000-4-2(Air)	$V_{ESD}$	30	kV
ESD per IEC 61000-4-2(Contact)		30	kV
Lead Soldering Temperature	$T_L$	260/10S	°C
Junction Temperature	$T_J$	-55 to 125	°C
Storage Temperature	$T_{STG}$	-55 to 125	°C

## 6. Electrical Characteristics

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	$\mu A$
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	$C_J$	$V_R=0V, f=1MHz(Pin1 Pin2 to Pin 3)$		100	110	pF

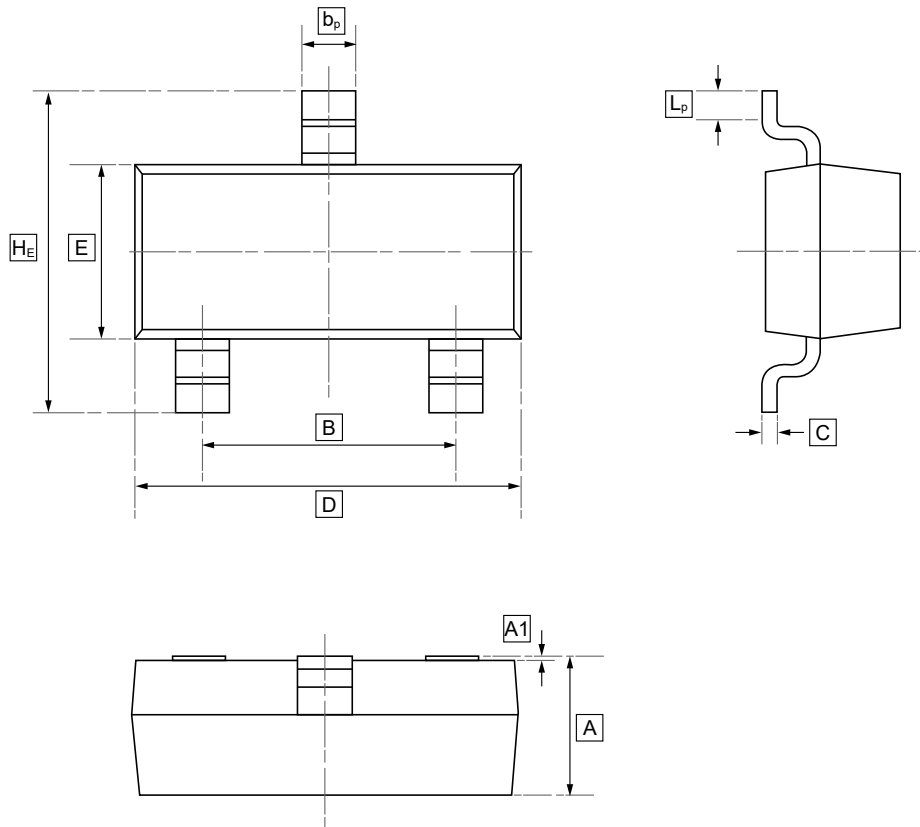


## 7. Typical characteristic





## 8.SOT-23 Package Outline Dimensions

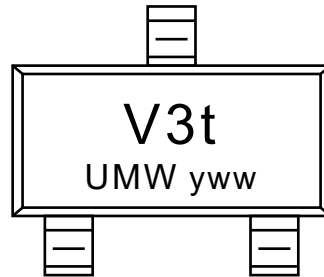


### DIMENSIONS (mm are the original dimensions)

Symbol	A	B	b <sub>p</sub>	C	D	E	H <sub>E</sub>	A1	L <sub>p</sub>
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 PESD3V3L2BT	SOT-23	3000	Tape and reel



## **10.Disclaimer**

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