

1. Features

- 350 Watts peak pulse power ($t_p=8/20\mu s$)
- Bidirectional and configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 30\text{kV}$ contact $\pm 30\text{kV}$ air
- IEC 61000-4-4 (EFT) 40A(5/50ns)
- IEC 61000-4-5 (Lightning) 12A(8/20 μs)

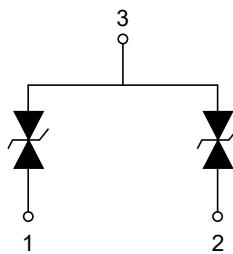
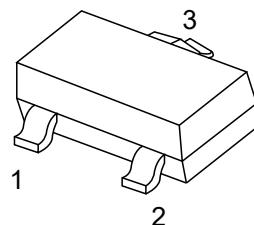
2. Applications

- 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

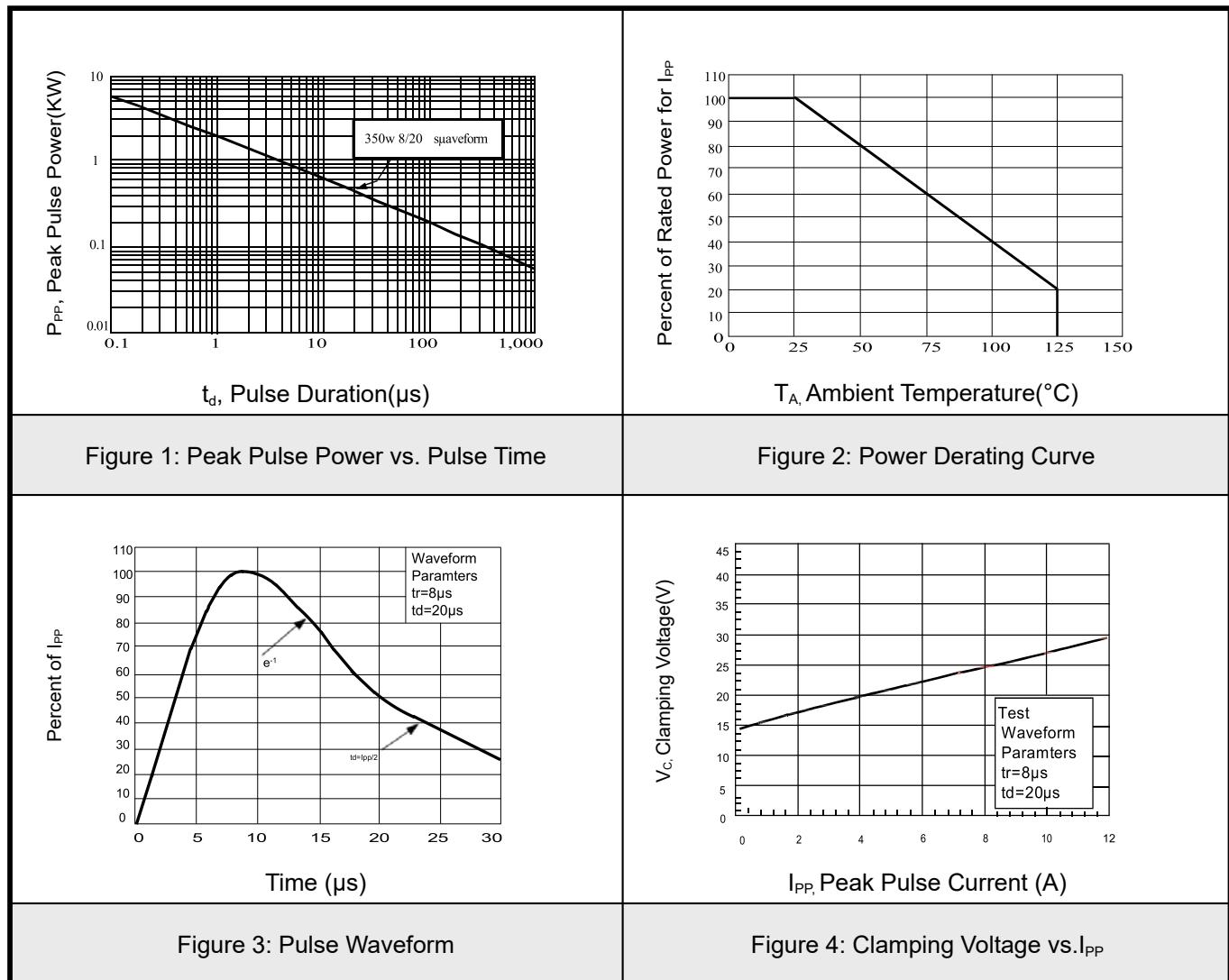
Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	350	W
Peak Pulse Current ($t_p=8/20\mu s$)(note1)	I_{PP}	12	A
ESD per IEC 61000-4-2(Air)	V_{ESD}	30	kV
ESD per IEC 61000-4-2(Contact)		30	kV
Lead Soldering Temperature	T_L	260(10seconds)	°C
Junction Temperature	T_J	-55 to 125	°C
Storage Temperature	T_{STG}	-55 to 125	°C

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V_{RWM}			12		V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	13.3	15	17	V
Reverse Leakage Current	I_R	$V_{RWM}=12V, T=25^\circ C$		0.1	0.5	µA
Peak Pulse Current	I_{PP}	$t_p=8/20\mu s$		12		A
Clamping Voltage	V_C	$I_{PP}=12A, t_p=8/20\mu s$		35		V
Junction capacitance	C_J	$V_R=0V, f=1MHz, (Pin1 Pin2 to Pin3)$	30	35		pF

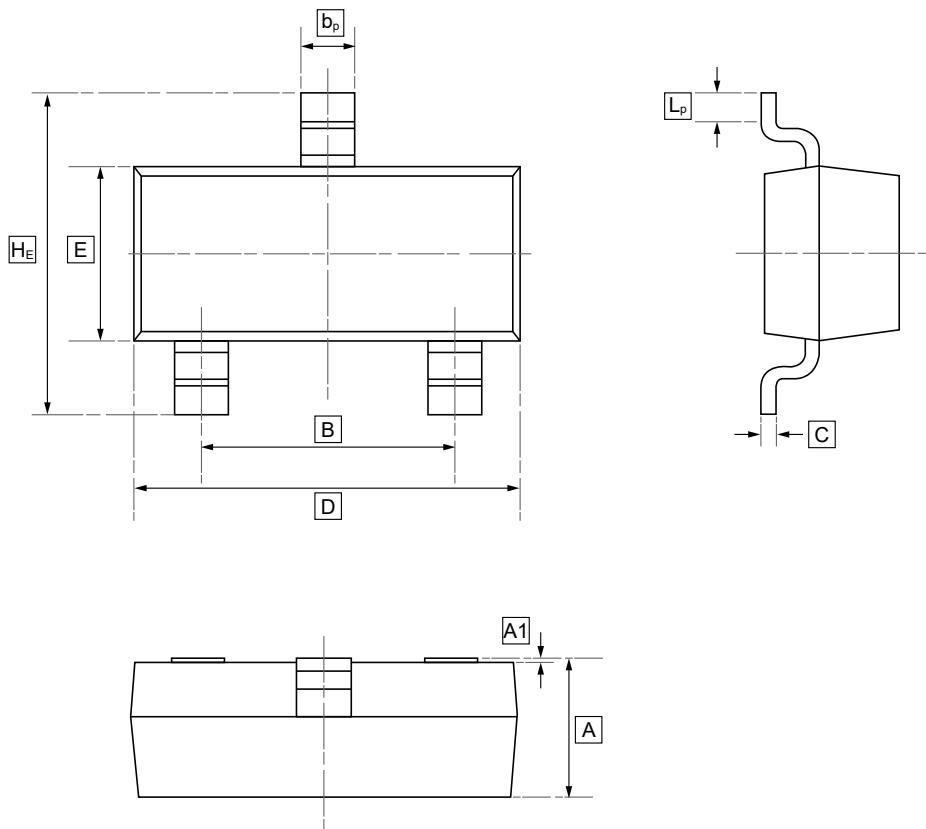


7. Typical characteristic





8.SOT-23 Package Outline Dimensions

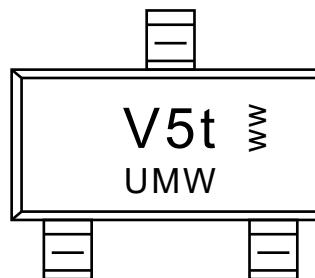


DIMENSIONS (mm are the original dimensions)

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



ww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW PESD12VL2BT	SOT-23	3000	Tape and reel



10.Disclaimer

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