

1.Features

- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: $\pm 30\text{kV}$
 - Contact discharge: $\pm 30\text{kV}$
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 7A (8/20 μs)
- 150W peak pulse power(8/20 μs)
- Ultra low leakage: nA level
- Operating voltage: 7V or 12V
- Low clamping voltage
- RoHS Compliant

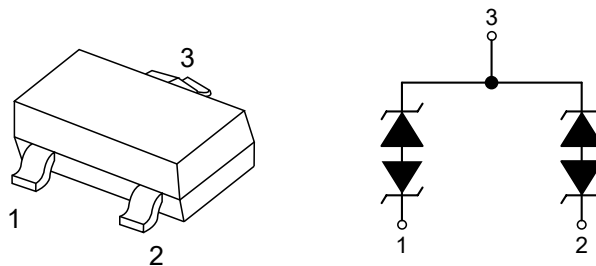
2.Applications

- Wireless System
- Networks
- Portable Instrumentation
- RS485 Ports

3.Mechanical Characteristics

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below

4.Pinning information



SOT-23



5. Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Peak Pulse Power (8/20μs)	P _{PK}	150	W
Peak Pulse Current (8/20μs)	I _{PP}	7	A
ESD per IEC 61000-4-2(Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2(Contact)		±30	kV
Junction Temperature Range	T _J	-55 to 125	°C
Storage Temperature Range	T _{STG}	-55 to 150	°C

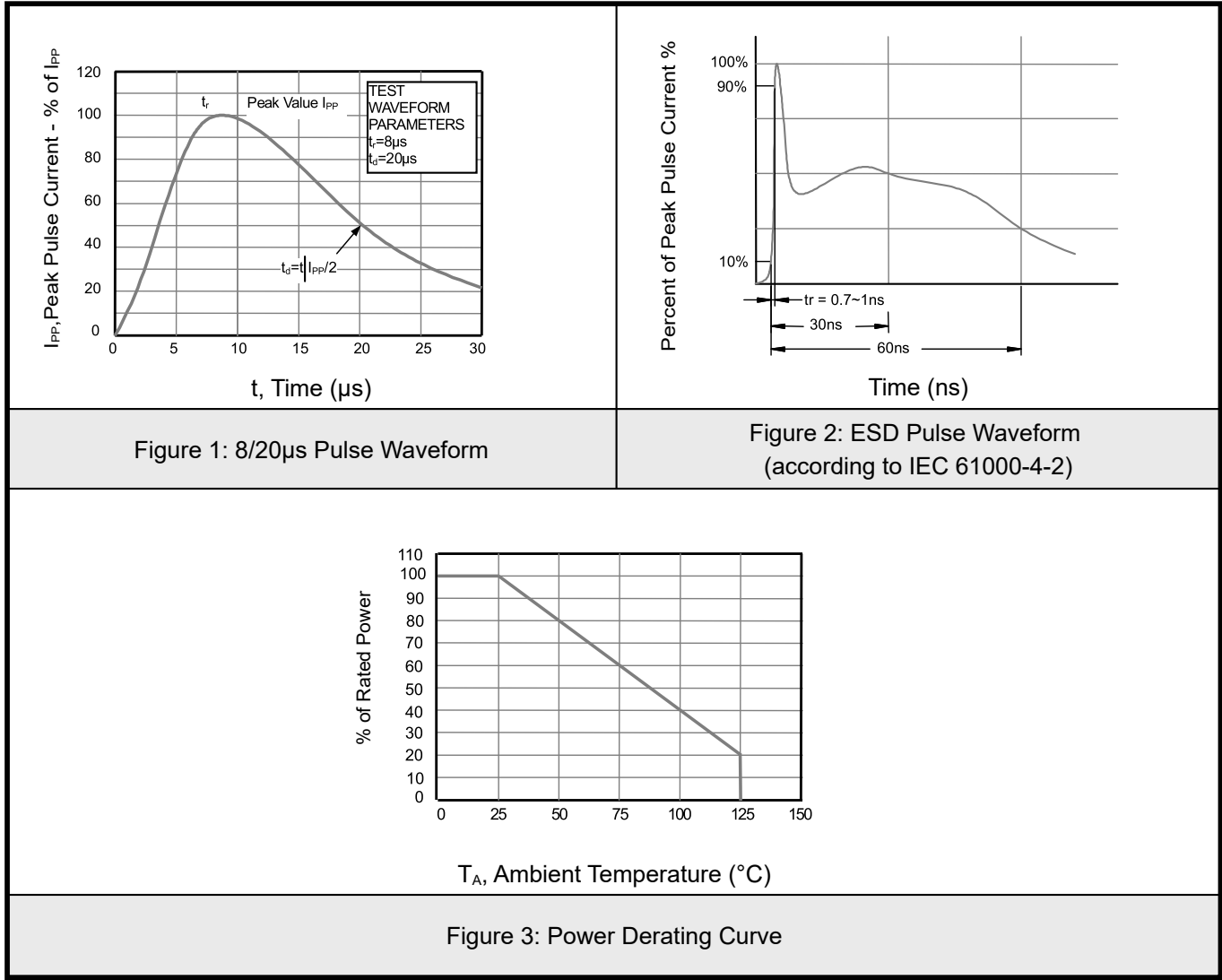


6. Electrical Characteristics

Parameter	Symbol	Conditions	Pin 1 to 3 and 2 to 3 (12V TVS)			Pin 3 to 1 and 3 to 2 (7V TVS)			Units
			Min	Typ	Max	Min	Typ	Max	
Reverse Working Voltage	V_{RWM}				12			7	V
Breakdown Voltage	V_{BR}	$I_T=1mA$	13.3			7.5			V
Reverse Leakage Current	I_R	$V_R=V_{RWM}$		0.01	0.5		0.01	0.5	μA
Clamping Voltage	V_C	$I_{PP}=1A(8 \times 20\mu s \text{ pulse})$			19			11	V
		$I_{PP}=7A(8 \times 20\mu s \text{ pulse})$			25			15	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$			75			75	pF
		$V_R=V_{RWM}, f=1MHz$		45			45		pF

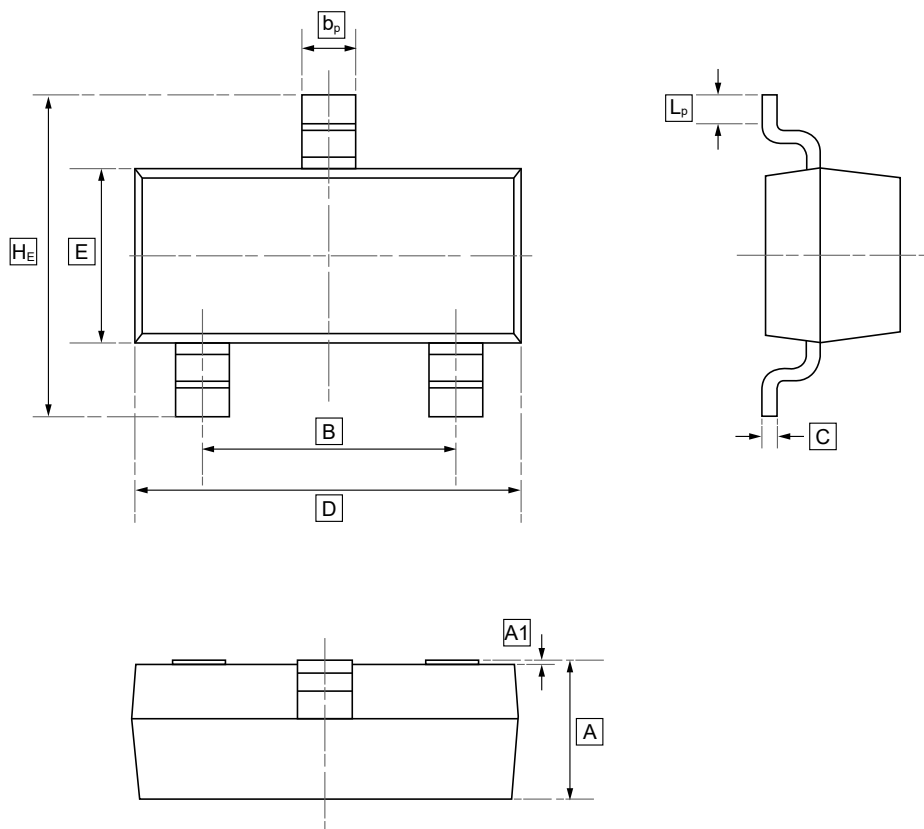


7. Typical characteristic





8.SOT-23 Package Outline Dimensions

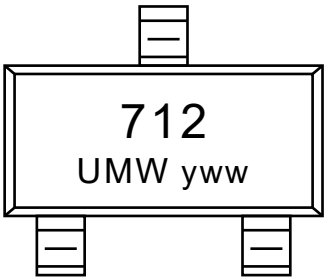


DIMENSIONS (mm are the original dimensions)

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



yww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW PSM712-LF-T7	SOT-23	3000	Tape and reel



10.Disclaimer

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