

1.Features

- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: $\pm 30\text{kV}$
 - Contact discharge: $\pm 30\text{kV}$
- RoHS Compliant
- Low leakage current
- Operating voltage: 3.3V
- Low clamping voltage
- Protecting 4 unidirectional line

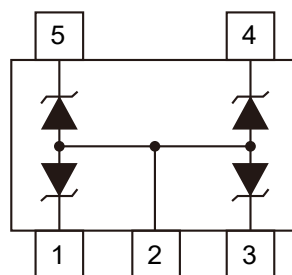
2.Applications

- Peripherals
- Industrial Equipment
- Notebook Computers
- Portable Instrumentation
- Microprocessor Based Equipment
- Cell Phone Handsets and Accessories
- Personal Digital Assistants (PDAs) and Pagers

3.Mechanical Characteristics

- Package: SOT-353
- Lead Finish: Matte Tin
- Moisture Sensitivity: Level 3 per J-STD-020

4.Pinning information



SOT-353



5. Absolute Maximum Rating

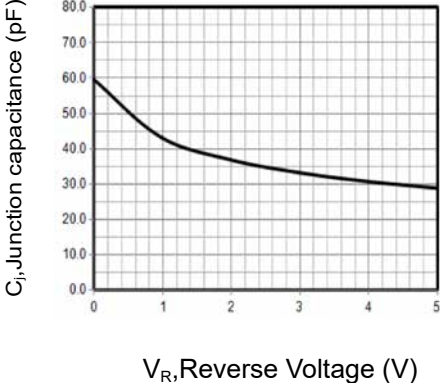
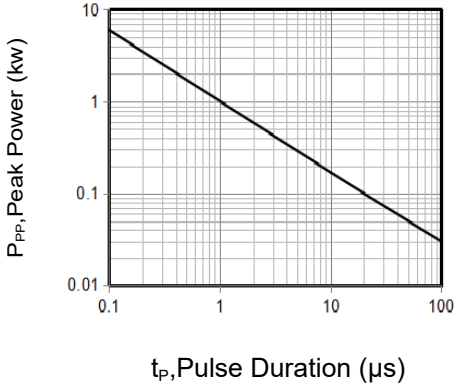
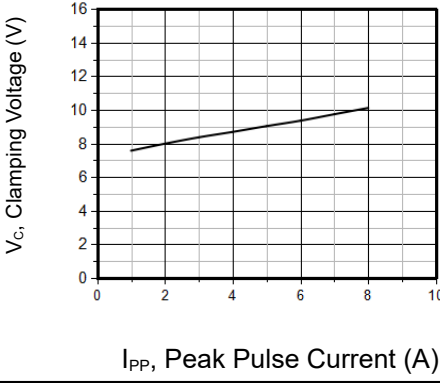
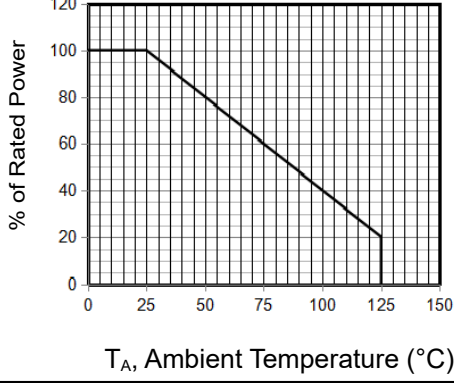
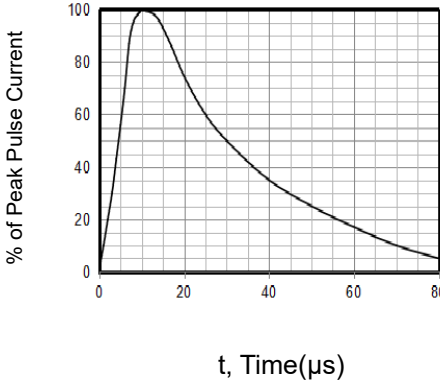
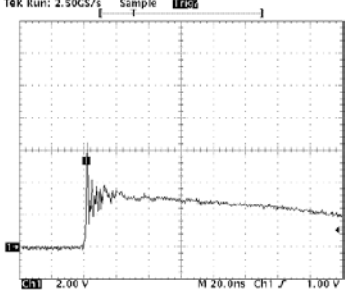
Parameter	Symbol	Value	Units
Peak Pulse Power (8/20 μ s)	P _{PP}	100	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	kV
Junction Temperature Range	T _J	-55 to 125	°C
Storage Temperature Range	T _{STG}	-55 to 150	°C

6. Electrical Characteristics (T_A=25°C unless otherwise specified)

Part Number	Device Marking	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μ A (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
PESD3V3L4UG	F05	3.3	4.5	1	8	12	8	0.2	60

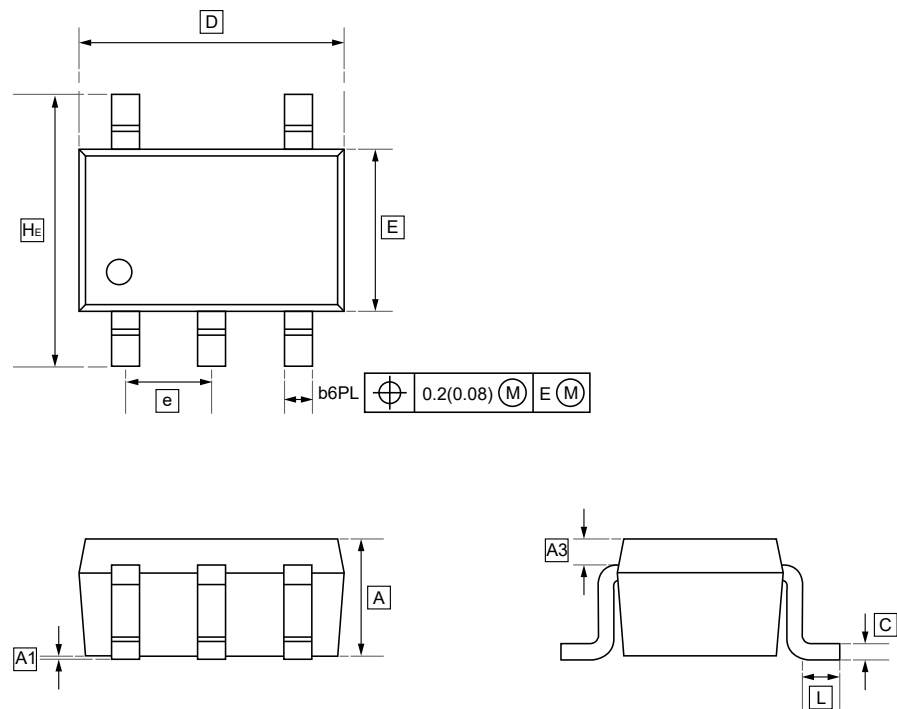


7. Typical characteristic

 <p>Figure 1: Junction Capacitance vs. Reverse Voltage</p>	 <p>Figure 2: Peak Pulse Power vs. Pulse Time</p>
 <p>Figure 3: Clamping Voltage vs. Peak Pulse Current</p>	 <p>Figure 4: Power Derating Curve</p>
 <p>Figure 5: 8 X 20μs Pulse Waveform</p>	 <p>Data is taken with a 10x attenuator ESD Clamping Voltage</p> <p>Figure 6: 8kV Contact per IEC61000-4-2</p>



8.SOT-353 Package Outline Dimensions

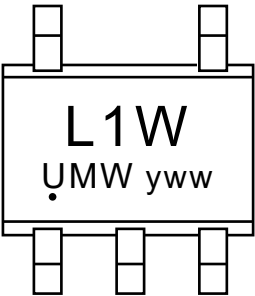


DIMENSIONS (mm are the original dimensions)

Symbol	A	A1	A3	b	C	D	E	e	L	HE
Min	0.80	0.00	0.2	0.10	0.10	1.80	1.15	0.65	0.10	2.00
Max	1.10	0.10	REF	0.30	0.25	2.20	1.35	BSC	0.30	2.20



9.Ordering information



yww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW PESD3V3L4UG	SOT-353	3000	Tape and reel



10.Disclaimer

UMW reserves the right to make changes to all products, specifications. Customers should obtain the latest version of product documentation and verify the completeness and currency of the information before placing an order.

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