

1. Description

The UMW SDD32A05L01 is designed to protect low voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium.

3. Features

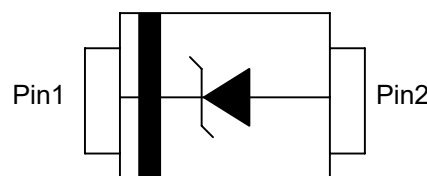
- IEC61000-4-2 ESD 15KV Air, 8KV contact compliance
- SOD-323 surface mount package
- Protects one I/O line
- Peak power dissipation of 320W under 8/20 μ s waveform
- Working voltage: 5V
- Low leakage current

2. Applications

- Cellular handsets & Accessories
- Cordless phones
- Personal digital assistants (PDAs)
- Notebooks & Handhelds
- Portable instrumentation
- Digital cameras
- Peripherals
- MP3 players

- Low clamping voltage
- Solid-state silicon avalanche technology
- Lead Free/RoHS compliant
- Solder reflow temperature: Pure Tin-Sn 260~270°C
- Flammability rating UL 94V-0
- Marking: 05W

4. Pinning information



SOD-323



5. Absolute Maximum Ratings

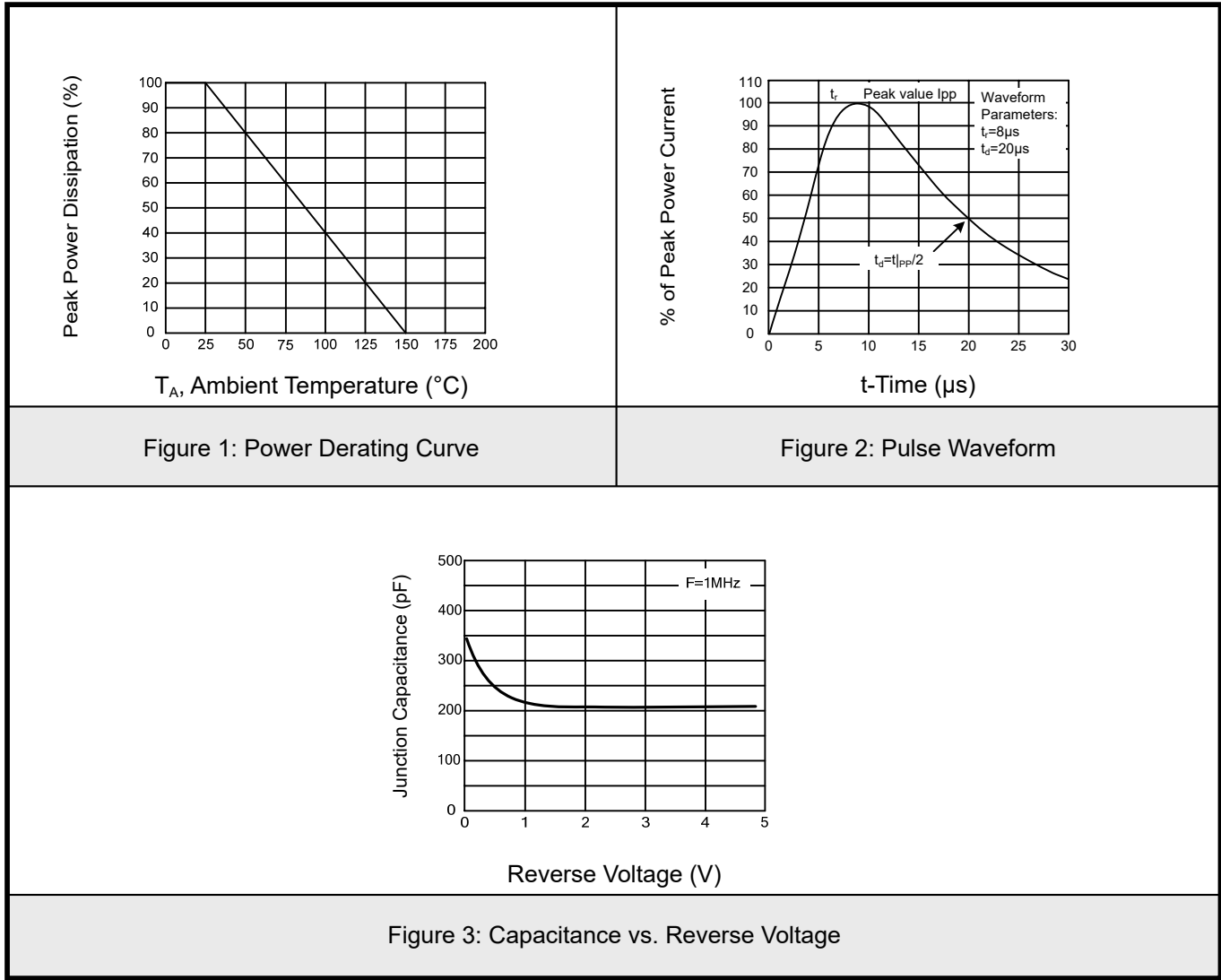
Parameter	Symbol	Maximum	Units
Peak pulse power (tp=8/20us waveform)	P_{PP}	320	W
ESD voltage (Contact discharge)	V_{ESD}	±8	kV
ESD voltage (Air discharge)		±15	kV
Storage & Junction temperature range	T_{STG}, T_J	-55 to 150	°C

6. Electrical Characteristic

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse breakdown voltage	V_{BR}	$I_{BR}=1mA$	6			V
Reverse leakage current	I_R	$V_R=5V$			10	μA
Clamping voltage (tp=8/20us)	V_C	$I_{PP}=1A$			9.8	V
Clamping voltage (tp=8/20us)	V_C	$I_{PP}=24A$			20	V
Off state junction capacitance	C_J	0Vdc, f=1MHz			350	pF

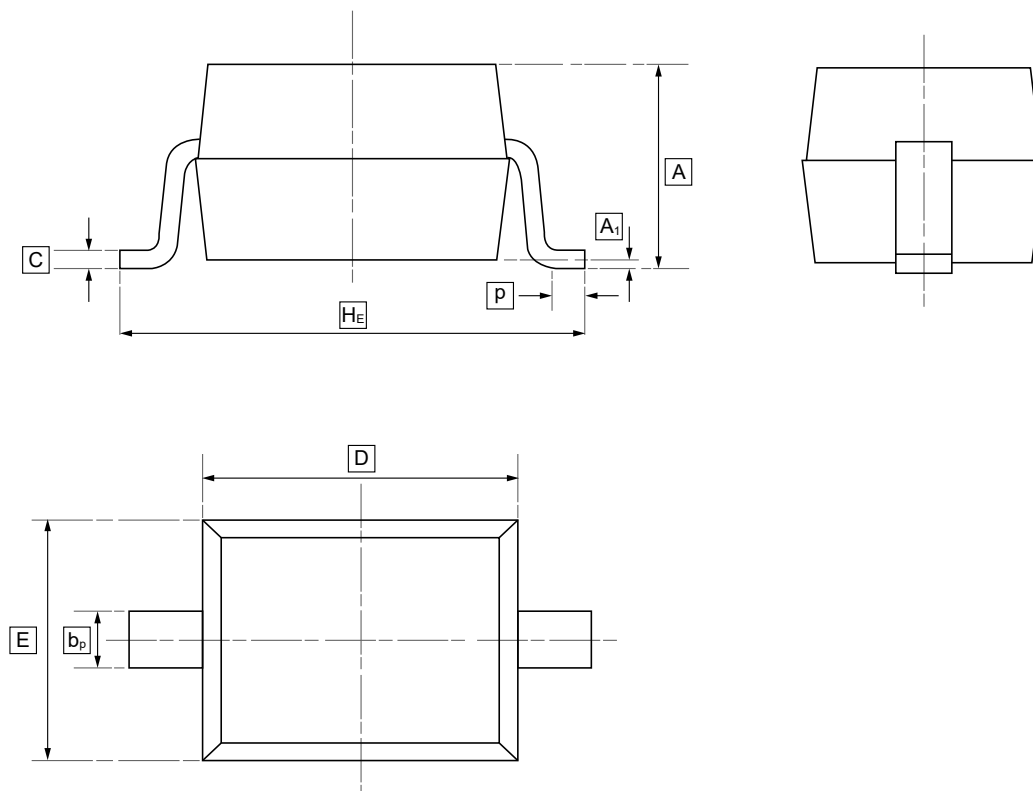


7. Typical characteristic





8.SOD-323 Package Outline Dimensions

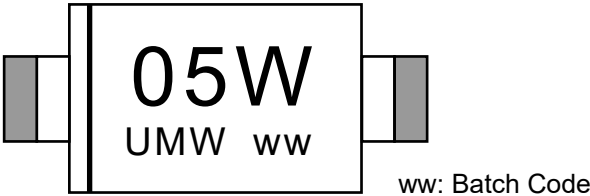


DIMENSIONS (mm are the original dimensions)

Symbol	A	b_p	C	D	E	H_E	A_1	P
Min	0.90	0.25	0.10	1.60	1.15	2.30	0.01	0.20
Max	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50



9.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW SDD32A05L01	SOD-323	3000	Tape and reel



10.Disclaimer

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