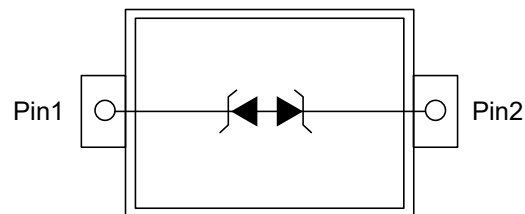


1.Features

- Provides ESD Protection per IEC 61000-4-2
Standard: Air – $\pm 30\text{kV}$, Contact – $\pm 30\text{kV}$
- 1 Channel of ESD Protection
- Low Channel Input Capacitance
- Typically Used in Cellular Handsets,
Portable Electronics, Communication
Systems, Computers and Peripherals

2.Pinning information



SOD-323

3.Maximum Ratings

Parameter	Symbol	Conditions	Value	Units
Peak Pulse Power Dissipation	P_{PP}	8/20 μs , Per Fig. 1	84	W
Peak Pulse Current	I_{PP}	8/20 μs , Per Fig. 1	6	A
ESD Protection – Contact Discharge	$V_{ESD_Contact}$	Standard IEC 61000-4-2	± 30	kV
ESD Protection – Air Discharge	V_{ESD_Air}	Standard IEC 61000-4-2	± 30	kV



4. Thermal Characteristics

Parameter	Symbol	Value	Units
Package Power Dissipation	P_D	200	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	°C/W
Storage Temperature Range	T_J, T_{STG}	-65 to 150	°C

5. Electrical Characteristic ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Standoff Voltage	V_{RWM}				5	V
Channel Leakage Current	I_R	$V_{RWM}=5V$		10	100	nA
Clamping Voltage, Positive Transients	V_{CL}	$I_{PP}=1A, t_p=8/20\mu s$		7	9	V
		$I_{PP}=3A, t_p=8/20\mu s$		8.7	10.7	V
		$I_{PP}=5A, t_p=8/20\mu s$		10.5	12	V
		$I_{PP}=6A, t_p=8/20\mu s$		11.5	14	V
Breakdown Voltage	V_{BR}	$I_R=1mA$	6	7	8	V
Differential Resistance	R_{DIF}	$I_R=1A, t_p=8/20\mu s$		0.2		Ω
Channel Input Capacitance	C_T	$V_R=0V, f=1MHz$		15	20	pF

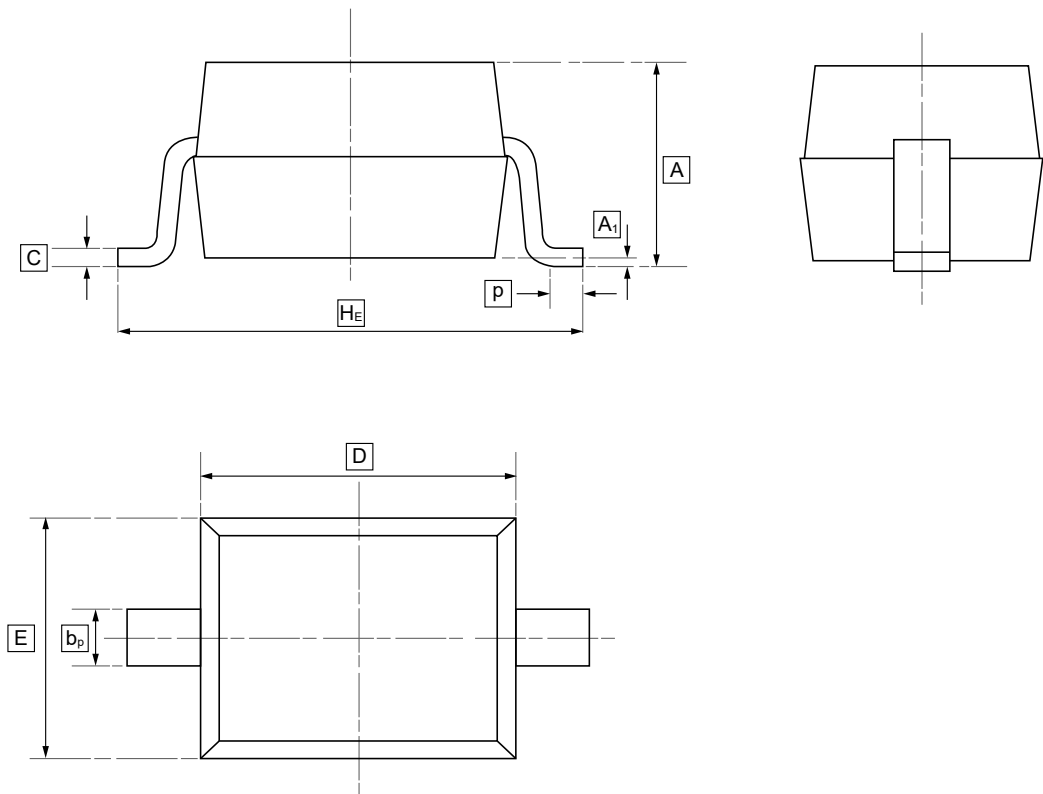


6. Typical characteristic

Figure 1: Pulse Waveform	Figure 2: Typical Total Capacitance vs. Reverse Voltage
Figure 3: Pulse Derating Curve	Figure 4: Typical Reverse Characteristics



7.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



8.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW D5V0L1B2WS-7	SOD-323	3000	Tape and reel



9.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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