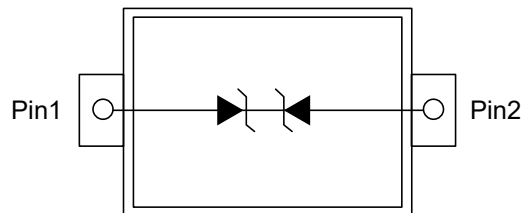


1.Features

- 300 Watts peak pulse power ($t_p=8/20\mu s$)
- Transient protection for data lines to
IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 24A (8/20 μs)
- Small package for use in portable electronics
- Suitable replacement for MLV's in ESD
protection applications
- Small Body Outline Dimensions
- Protects one I/O or power line
- Low clamping voltage
- Working voltages: 5V and 36V
- Low leakage current
- Solid-state silicon-avalanche technology
- We declare that the material of product
compliance with RoHS requirements

2.Pinning information



SOD-323



3. Absolute Maximum Ratings $T_A = 25^\circ\text{C}$

Parameter	Symbol	Maximum	Units
Peak Pulse Power (tp=8/20s)	P_{PP}	300	W
Maximum lead temperature for soldering during 10s	T_L	260	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to 155	$^\circ\text{C}$
Junction Temperature	T_{OP}	-40 to 125	$^\circ\text{C}$
Maximum junction temperature	T_J	150	$^\circ\text{C}$
IEC61000-4-2 (ESD)	air discharge	± 15	kV
	contact discharge	± 8	kV
IEC61000-4-4(EFT)		40	A
ESD Voltage	Per Human Body Model	16	kV



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

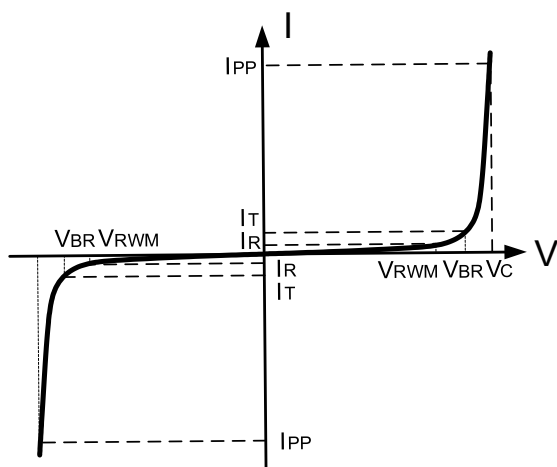
Device	Device Marking	V_{RWM} (V)	$I_R(\mu\text{A})$ V_{RWM}	$V_{BR}(\text{V})$ $I_T(\text{Note1})$	I_T	$V_C(\text{V})$ $I_{PP}=5\text{A}^*$	$V_C(\text{V})$ $\text{Max}=I_{PP}^*$	I_{PP} (A)*	P_{PK} (W)*	C (pF)
		Max	Max	Min	mA	Typ	Max	Max	Max	Typ
ESD3Z5V0	3M	5	1	5.6	1	11.6	18.6	9.4	174	35

Notes:

*Surge current waveform per Figure 1.

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C .

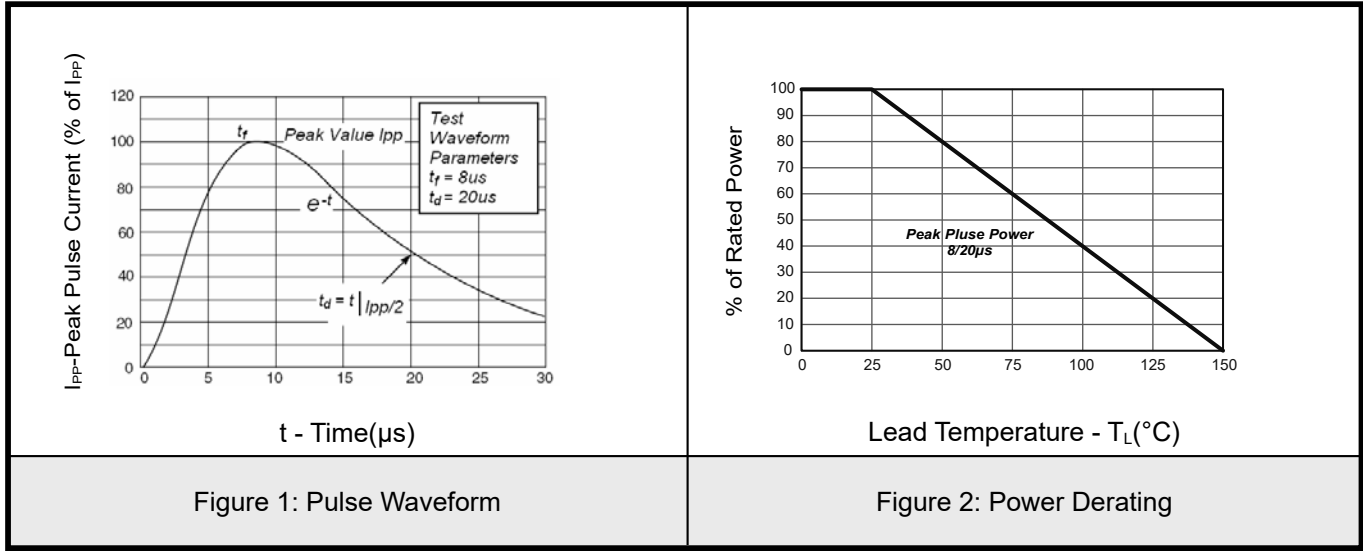
5. Electrical Parameters ($T_A=25^\circ\text{C}$ unless otherwise noted)



Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
I_T	Test Current
V_{BR}	Breakdown Voltage @ I_T

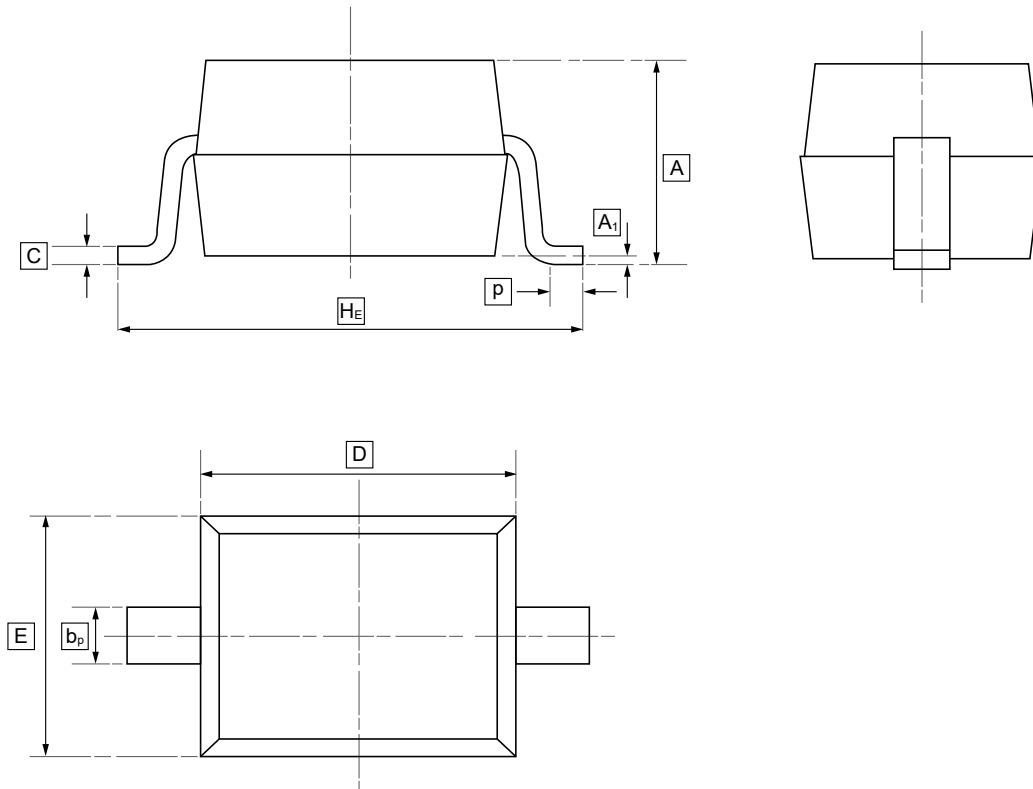


6. Typical characteristic





7.SOD-323 Package Outline Dimensions

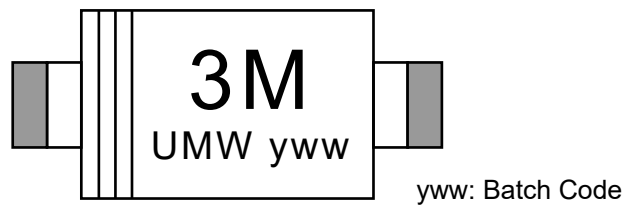


DIMENSIONS (mm are the original dimensions)

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 ESD3Z5V0	SOD-323	3000	Tape and reel



9.Disclaimer

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