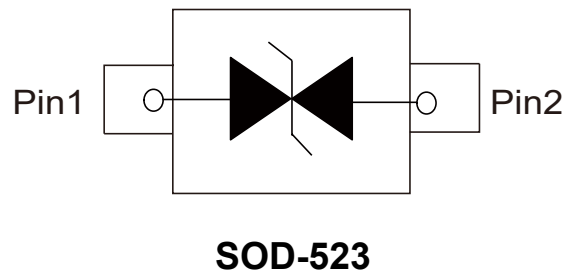


1.Features

- Stand-off Voltage: 5V0
- Low Leakage
- Response Time is Typically < 1ns
- IEC61000-4-2 Level 4 ESD Protection
- Green EMC

2.Pinning information



3.Absolute Ratings ($T_A=25^{\circ}\text{C}$, unless otherwise noted)

Parameter	Symbol	Value	Units
IEC61000-4-2(ESD) Air Contact	V_{PP}	± 15	kV
		± 8	kV
Per Human Body Model	E_{SD}	16	kV
Power Dissipation (Note 1)	P_D	150	mW
Storage Temperature Range	T_{STG}	-55 to 150	$^{\circ}\text{C}$
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Max Lead Solder Temperature range (10 Second Duration)	T_L	260	$^{\circ}\text{C}$



4.Electrical Characteristic (T_A=25°C unless otherwise noted)

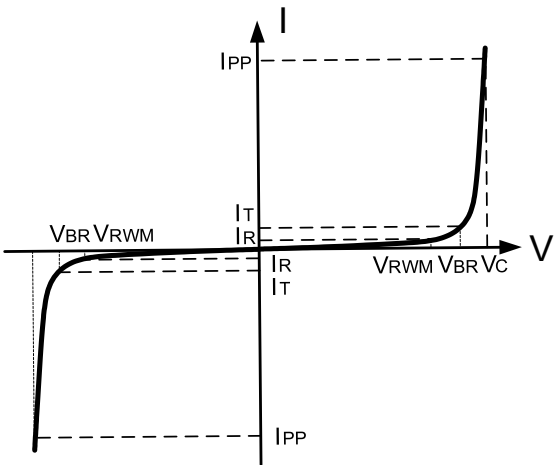
Device Type	V _{RWM} (Volts)	I _R @V _{RWM} (μA)	V _{BR} @ I _T (Note 2) (Volts)		I _T (mA)	I _{PP} + (A)	V _C @Max I _{PP} + (Volts)	P _{PK} + (W)	C @ V _R =0V, f=1MHz (pF)
	Max	Max	Min	Max		Max	Max	Max	Typ.
ESD5Z5V0C	5	1	5.6	7.8	1	4	12	48	15

Notes:

+ Surge current waveform per Figure 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°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

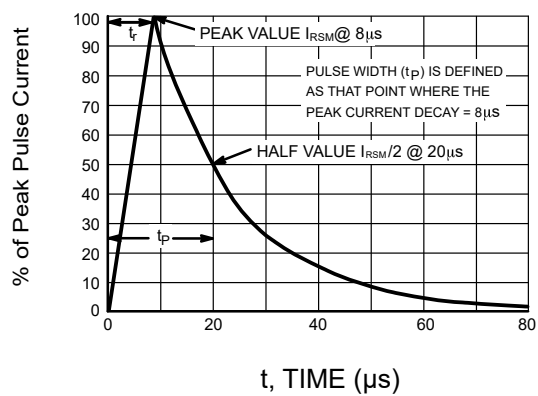
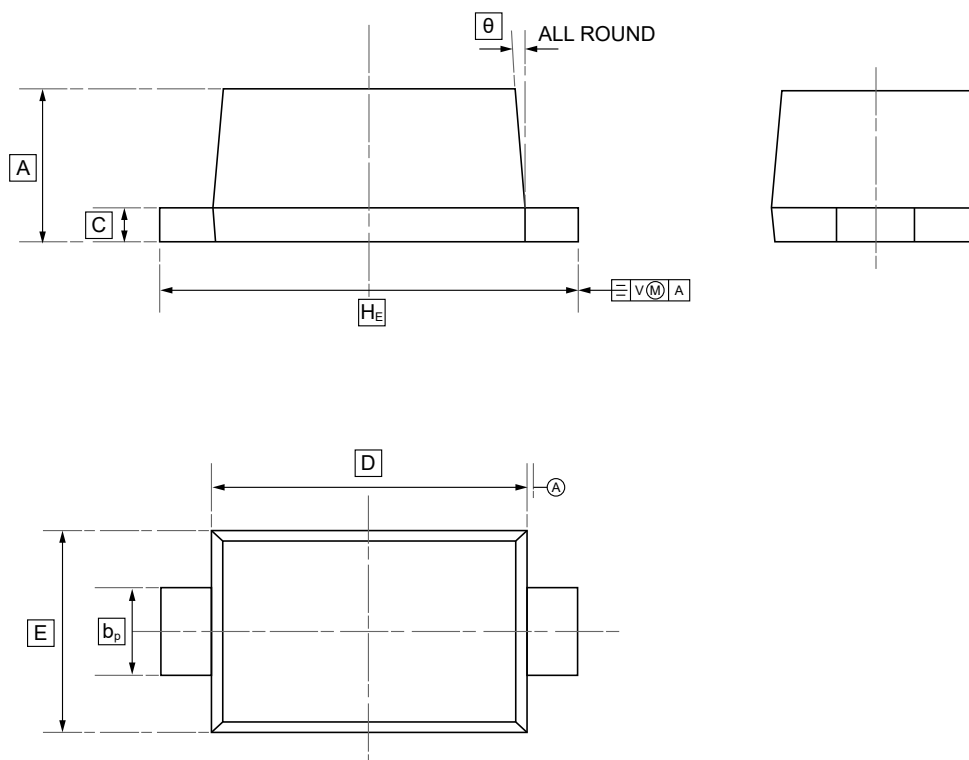


Figure 1: 8 x 20μs Pulse Waveform



7.SOD-523 Package Outline Dimensions



DIMENSIONS (mm are the original dimensions)

Symbol	A	b _p	C	D	E	H _E	θ
Min	0.58	0.3	0.100	1.15	0.75	1.5	5°
Max	0.68	0.4	0.135	1.25	0.85	1.7	



8.Ordering information



yww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW ESD5Z5V0C	SOD-523	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.

When applying our products, please do not exceed the maximum rated values, as this may affect the reliability of the entire system. Under certain conditions, any semiconductor product may experience faults or failures. Buyers are responsible for adhering to safety standards and implementing safety measures during system design, prototyping, and manufacturing when using our products to prevent potential failure risks that could lead to personal injury or property damage.

Unless explicitly stated in writing, UMW products are not intended for use in medical, life-saving, or life-sustaining applications, nor for any other applications where product failure could result in personal injury or death. If customers use or sell the product for such applications without explicit authorization, they assume all associated risks.

When reselling, applying, or exporting, please comply with export control laws and regulations of China, the United States, the United Kingdom, the European Union, and other relevant countries, regions, and international organizations.

This document and any actions by UMW do not grant any intellectual property rights, whether express or implied, by estoppel or otherwise. The product names and marks mentioned herein may be trademarks of their respective owners.