

# **UMW ESD5Z5V0C**

#### 1.Features

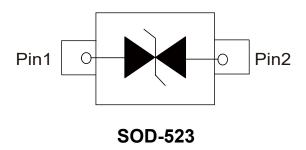
■ Stand-off Voltage: 5V0

■ Low Leakage

■ Response Time is Typically < 1ns

- IEC61000-4-2 Level 4 ESD Protection
- Green EMC

#### 2.Pinning information



#### 3.Absolute Ratings (T<sub>A</sub>=25°C, unless otherwise noted)

Parameter	Symbol	Value	Units	
IEC61000-4-2(ESD)	Air	$V_PP$	±15	kV
	Contact	▼ PP	±8	kV
Per Human Body Model		E <sub>SD</sub>	16	kV
Power Dissipation (Note 1)		P <sub>D</sub>	150	mW
Storage Temperature Range		T <sub>STG</sub>	-55 to 150	°C
Junction Temperature		TJ	150	°C
Max Lead Solder Temperature range (10 Second Duration)		T∟	260	°C







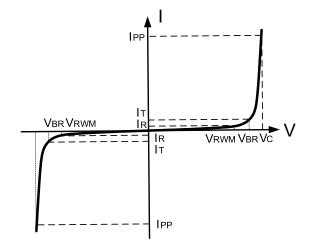
### 4.Electrical Characteristic (T<sub>A</sub>=25°C unless otherwise noted)

Device Type	V <sub>RWM</sub> (Volts)	I <sub>R</sub> @V <sub>RWM</sub> (μΑ)	V <sub>BR</sub> @ I <sub>T</sub> (Note 2) (Volts)		Ι <sub>τ</sub> (mA)	I <sub>РР</sub> + (А)	Vc@Max Ipp+ (Volts)	P <sub>PK</sub> + (W)	C @ V <sub>R</sub> =0V, f=1MHz (pF)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Max	Max	Min	Max	,	Max	Max	Max	Тур.
ESD5Z5V0C	5	1	5.6	7.8	1	4	12	48	15

#### Notes:

 $V_{\text{BR}}$  is measured with a pulse test current IT at an ambient temperature of 25°C.

### 5.Electrical Parameters ( $T_A$ =25°C unless otherwise noted)



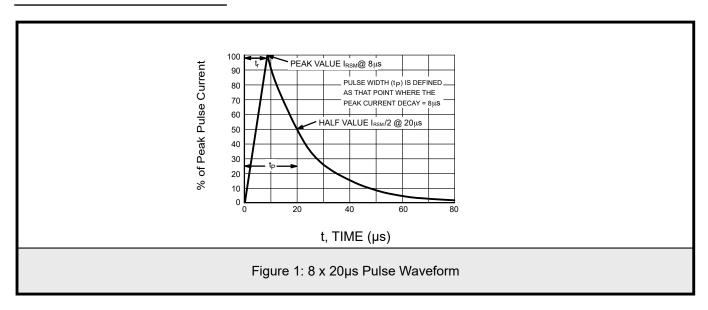
Symbol	Parameter						
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current						
V <sub>C</sub>	Clamping Voltage @ I <sub>PP</sub>						
$V_{RWM}$	Working Peak Reverse Voltage						
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>						
I <sub>T</sub>	Test Current						
$V_{BR}$	Breakdown Voltage @ I <sub>⊤</sub>						

<sup>+</sup> Surge current waveform per Figure 1.





### 6. Typical characteristic

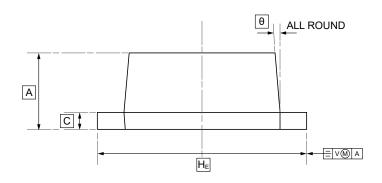


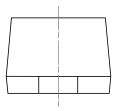


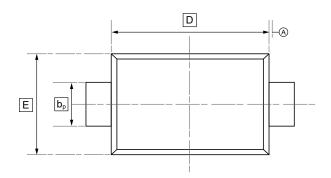




### 7.SOD-523 Package Outline Dimensions







#### **DIMENSIONS** (mm are the original dimensions)

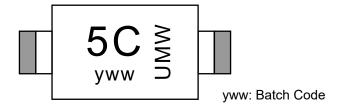
Symbol	Α	bр	С	D	E	HE	θ	
Min	0.58	0.3	0.100	1.15	0.75	1.5	۶°	
Max	0.68	0.4	0.135	1.25	0.85	1.7	5°	







### 8. Ordering information



Order Code	Package	Base QTY	Delivery Mode	
UMW ESD5Z5V0C	SOD-523	3000	Tape and reel	

## **UMW ESD3Z5V0C**







#### 9.Disclaimer

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