

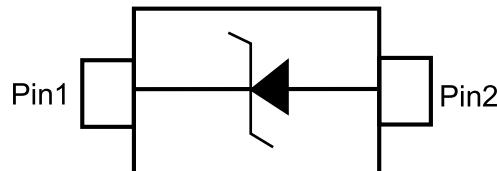
## 1. Features

- Peak Reverse Working Voltage: 5V
- Low leakage current
- High ESD protection Level: >+/-15KV per HBM
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection

## 2. Applications

- Cell phone handsets and accessories
- Personal Digital Assistants (PDAs)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Digital Cameras
- MP3/MP4/PMP Players

## 3. Pinning information



**SOD-523**

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

Parameter	Symbol	Value	Units
Maximum peak pulse current ( $t_p=8/20\mu\text{s}$ )	$I_{PP}$	9	A
ESD Per IEC61000-4-2(Air)	$V_{PP}$	$\pm 15$	kV
ESD Per IEC61000-4-2(Contact)		$\pm 10$	kV
Maximum lead temperature for soldering during 10s	$T_L$	260	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to 150	$^\circ\text{C}$
Junction Temperature range	$T_{OP}$	-55 to 150	$^\circ\text{C}$



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

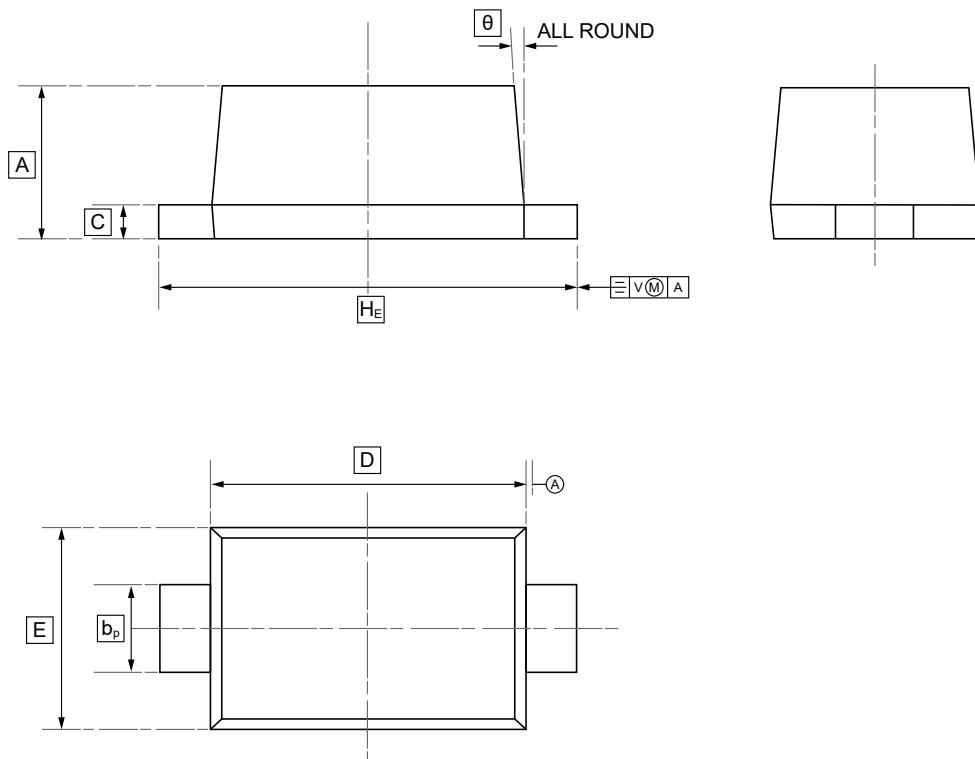
P/N	$V_{\text{RWM}}$ (V)	$I_R$ ( $\mu\text{A}$ ) @ $V_{\text{RWM}}$	$V_{\text{BR}}(\text{V})$ @ $I_T$ (Note 2)	$I_T$	C (pF)		$V_C$ (V) @ $I_{\text{PP}}=1\text{A}$	$V_C$
	Max	Max	Min	mA	Typ	Max	Max	Per IEC61000-4-2
ESD5Z5V0C	5	1	6.2	1	0.5	0.9	8	10

Notes:

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



## 6.SOD-523 Package Outline Dimensions



### DIMENSIONS (mm are the original dimensions)

Symbol	<b>A</b>	<b>b<sub>p</sub></b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>H<sub>E</sub></b>	<b>θ</b>
<b>Min</b>	0.58	0.3	0.100	1.15	0.75	1.5	5°
<b>Max</b>	0.68	0.4	0.135	1.25	0.85	1.7	



## **7.Ordering information**



ww: Batch Code

Order Code	Package	Base QTY	Delivery Mode
UMW ESD5Z5VU	SOD-523	3000	Tape and reel



## **8.Disclaimer**

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