

## **ESD** Protection Diode

Primary characteristics					
Parameter	Symbol	Value	Unit		
Working reverse voltage	V <sub>RWM</sub>	3.3	V		
ESD per IEC 61000-4-2 (contact)	$V_{\text{ESD}}$	±30	kV		
ESD per IEC 61000-4-2 (air)	Vesd	±30	kV		
Total power dissipation	PD	150	mW		

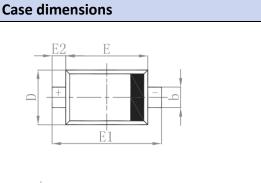
## **Features**

- SOD-523 case for easy automatic insertion.
- Pb-free and RoHS compliant •
- IEC61000-4-2 level 4 ESD protection •
- Low leakage current •
- Low clamping voltage
- Protects one directional I/O line •
- Flammability Rating: UL 94V-0 •
- High temperature soldering guaranteed: • 260°C/10s

## **Applications**

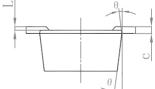
- Cell phone handsets and accessories •
- Microprocessor based equipment •
- Personal Digital Assistants (PDA's) •
- Notebooks, Desktops, and Servers •
- Portable Instrumentation
- Peripherals •
- Pagers •

Maximum ratings and electrical characteristics (T <sub>a</sub> = 25°C)							
Characteristics	Test condition	Sumbol	Value			Unit	
Characteristics	stics Test condition Symbol		Min.	Тур.	Max.	Unit	
ESD per IEC 61000-4-2 (contact)		Vesd	-30	-	+30	kV	
ESD per IEC 61000-4-2 (air)	-						
Peak pulse power 1)	FR-5=1.0 x 0.75 x 0.62 inch	PD	-	-	150	mW	
Operating temperature	-	Topt, Tstg	-55	-	150	°C	
Lead solder temperature	Maximum (10 second duration)	ΤL			260	°C	
Reverse working voltage	-	V <sub>RWM</sub>	-	-	3.3	V	
Reverse breakdown voltage	-	V <sub>BR</sub>	5.0	-	-	V	
Reverse leakage current	V <sub>RWM</sub> =3.3V	I <sub>R</sub>	-	-	0.9	ųА	
Junction capacitance	-	CJ		-	105	pF	



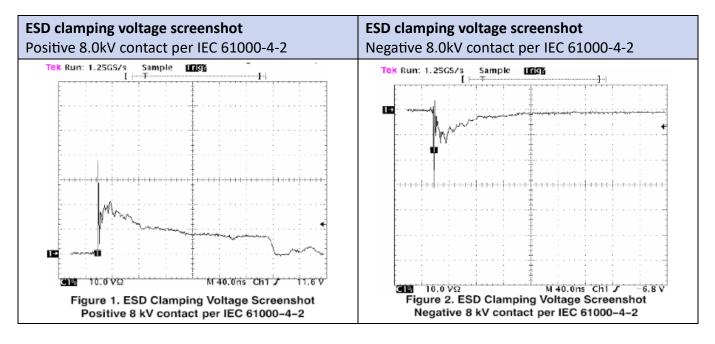


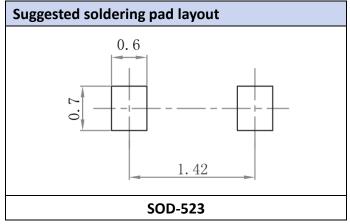




SOD-523										
Unit	А	A1	b	с	D	E	E1	E2	L	к
	0.64	0.6	0.3	0.12	0.8	1,2	1.6	0.2	0.04	<b>7</b> °
mm	±0.13	±0.1	±0.05	-0.04	±0.05	±0.1	±0.1	REF	±0.03	REF
				+0.03						







Ordering information					
Part Number	Package	Shipping Quantity			
SLESD3V3D5	SOD-523	3 000 pcs / 7" reel			

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