

## **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		

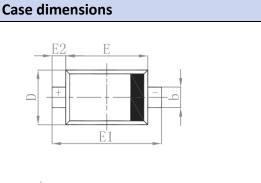
## **Features**

- 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

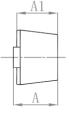
## **Applications**

- 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	



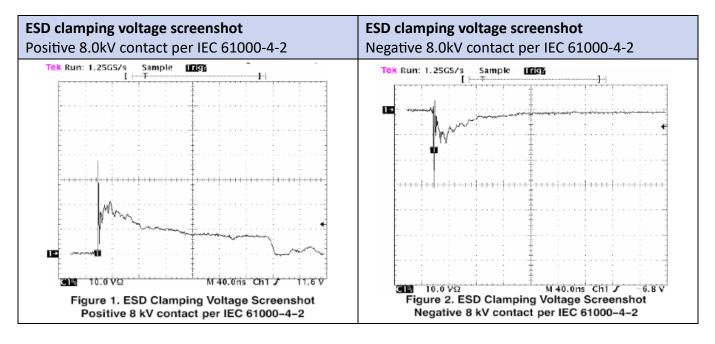


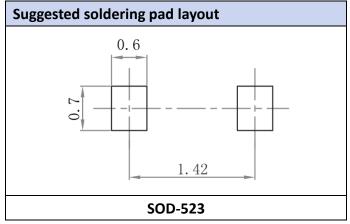




SOD-523										
Unit	А	A1	b	с	D	E	E1	E2	L	к
	0.64	0.6	0.3	0.12	0.8	1,2	1.6	0.2	0.04	<b>7</b> °
mm	±0.13	±0.1	±0.05	-0.04	±0.05	±0.1	±0.1	REF	±0.03	REF
				+0.03						







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

## Disclaimer

Akyga semi reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Akyga semi or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on Akyga semi data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Akyga semi does not assume any liability arising out of the application or use of any product or circuit. Akyga semi products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Akyga semi. Customers using or selling Akyga semi components for use in such applications do so at their own risk and shall agree to fully indemnify Akyga semi and its subsidiaries harmless against all claims, damages and expenditures.