

# ESD3V3D8

## Description

The ESD3V3D8 is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium.

# 1 SOD882

Schematic & PIN Configuration



#### Feature

• Case: SOD882 package

Stand−off Voltage: 3.3 V − 12 V

- Low clamping voltage
- Low Leakage current
- Response Time is Typically < 1.0 ns
- IEC61000-4-2 Level 4 ESD Protection
- ●ESD Rating of Class 3 (> 16 kV) per Human Body Model
- These are Pb-Free Devices

## **Applications**

- Cellular phones audio
- MP3 players
- Digital cameras
- Portable applicationss
- Mobile telephone

#### **Absolute Maximum Ratings**

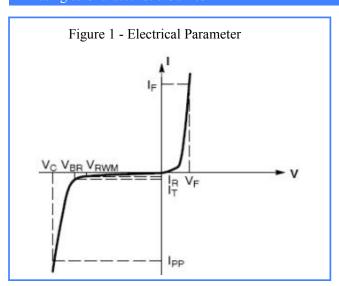
Parameter	Symbol	Value	Units	
IEC61000-4-2 (Contact)	V <sub>ESD</sub>	8	kV	
IEC61000-4-2 (Air)	$ m V_{ESD}$	15	kV	
Lead Soldering Temperature	$T_{L}$	260 (10 sec)	° C	
Junction and Storage Temperature Range	$T_{STG}$	-55 to 150	° C	
Maximum junction temperature	Tj	150	° C	
Peak Pulse Power (tp = 8/20s)	P <sub>pk</sub>	102	W	

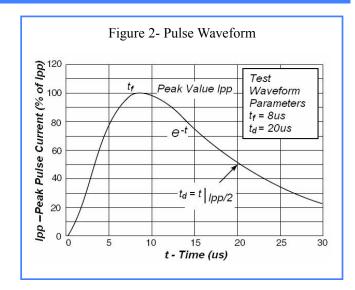


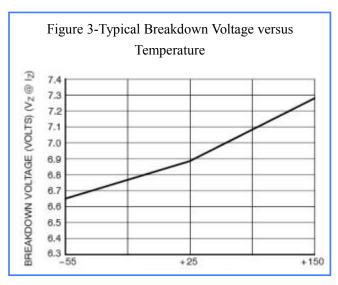
# Electrical Characteristics (T =25° C)

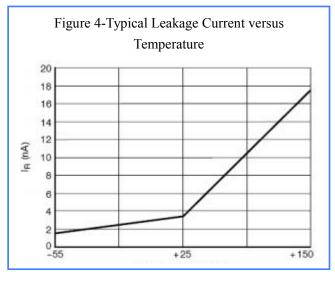
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	$V_{ m RWM}$				3.3	٧
Reverse Breakdown Voltage	$V_{\mathrm{BR}}$	I <sub>t</sub> = 1mA	5			٧
Reverse Leakage Current	I <sub>R</sub>	$V_R = V_{RWM}$			2.5	μ <b>Α</b>
Clamping Voltage	V <sub>C</sub>	@I <sub>PP</sub> t <sub>P</sub> = 8/20µs			10.4	٧
Peak pulse Current	I <sub>PP</sub>	t <sub>P</sub> = 8/20µs			9.8	Α
Junction Capacitance	CJ	$V_{R=0}V$ , f = 1MHz		80		pF

## Rating & Characteristic Curves

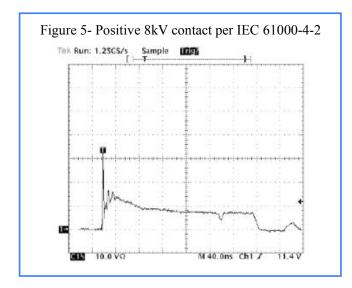


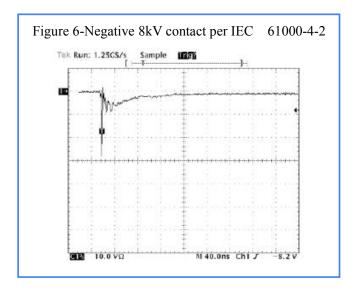




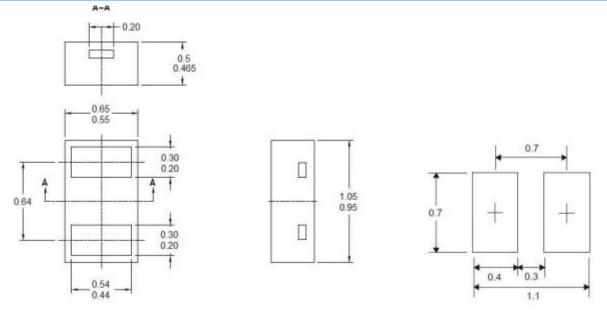








# PACKAGE OUTLINE DIMENSIONS in millimeters: SOD882



## Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

单击下面可查看定价,库存,交付和生命周期等信息

>>Yint(音特电子)