

ESD Protection - ESD5V0D8

Description

The ESD5V0D8 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.

Feature

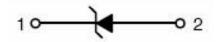
- Case: SOD882 package
- Low clamping voltage
- Low Leakage current
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- Response Time is Typically < 1.0 ns
- ●IEC61000 4 2 Level 4 ESD Protection
- These are Pb–Free Devices

Applications

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



Schematic & PIN Configuration



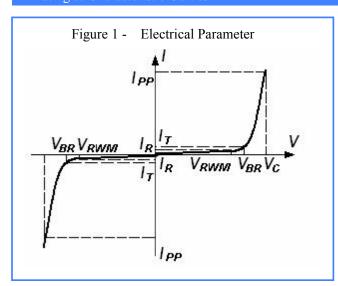
Absolute Maximum Ratings

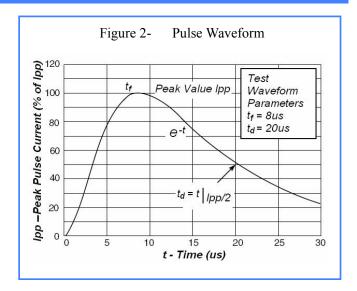
Parameter	Symbol	Value	Units
IEC61000-4-2 (Contact)	$ m V_{ESD}$	8	kV
IEC61000-4-2 (Air)	$ m V_{ESD}$	15	kV
Lead Soldering Temperature	T_{L}	260 (10 sec)	° C
Operating Temperature	T _J	-55 to 150	° C
Storage Temperature Range	T_{STG}	-55 to 150	° C

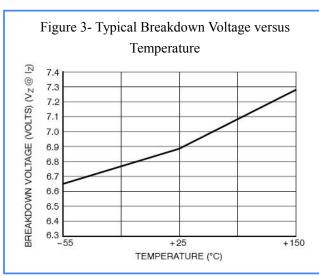
Electrical Characteristics (T =25° C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	$V_{ m RWM}$				5	V
Reverse Breakdown Voltage	V_{BR}	I _t = 1mA	6.2			V
Reverse Leakage Current	I _R	V _R =V _{RWM}			1	μ Α
Clamping Voltage	V _C	@I _{PP} , t _P = 8/20μs			12.3	V
Peak pulse Current	I _{PP}	t _P = 8/20µs			8.7	Α
Junction Capacitance	CJ	V _R =0V, f = 1MHz		65		pF

Rating & Characteristic Curves







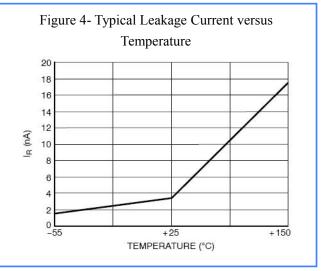
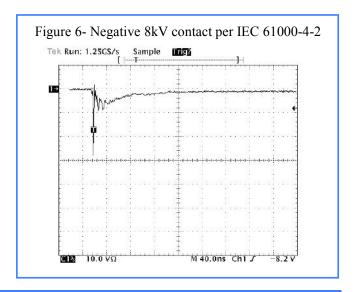
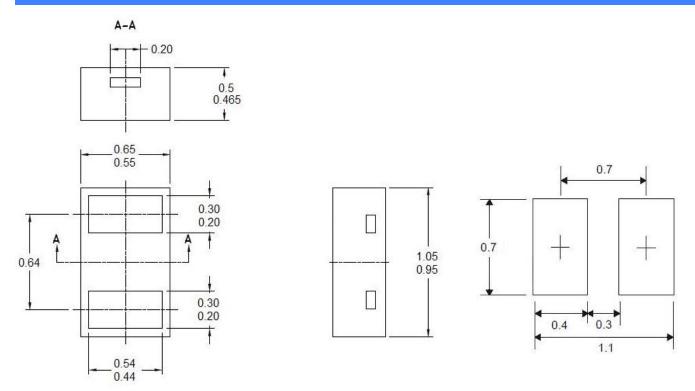


Figure 5- Positive 8kV contact per IEC 61000-4-2

Tek Run: 1.25GS/s Sample Fig. 10.0 VΩ M 40.0ns Chi / 11.4 V



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)