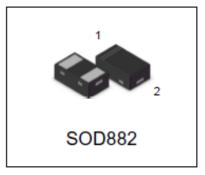


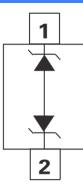
ESD Protection -ESDLC5V0D8B

Description

The ESDLC5V0D8B in a SOD-882 package and will protect bidirectional line. These devices are designed to replace multilayer varistors (MLVs) in portable applications such as cell phones, notebook computers, and PDA's. They offer superior electrical characteristics such as lower clamping voltage and no device degradation when compared to MLVs, The ESDLC5V0D8B are designed to protect sensitive semiconductor components from damage or upset due to electrostatic discharge (ESD), and other voltage induced transient events.



Schematic & PIN Configuration



• Case : SOD882 package

- Ultra Low Capacitance 3 pF
- Low clamping voltage
- Low Leakage current
- Response Time is Typically < 1.0 ns
- IEC61000 4 2 Level 4 ESD Protection
- This is a Pb– Free Device

Applications

Feature

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

Absolute Maximum Ratings

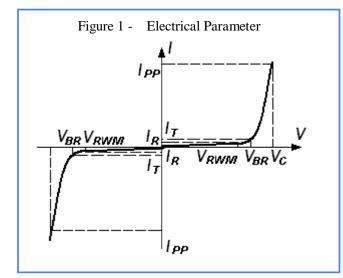
Parameter	Symbol	Value	Units
IEC61000-4-2 (Contact)	V_{ESD}	15	kV
IEC61000-4-2 (Air)	V_{ESD}	10	kV
Lead Soldering Temperature	T _L	260 (10 sec)	°C
Operating Temperature	T _J	-55 to 125	°C
Storage Temperature Range	T _{STG}	-55 to 150	°C



Electrical Characteristics (T = 25° C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	lt = 1mA	5.5			V
Reverse Leakage Current	I _R	V _R =V _{RWM}			100	nA
Clamping Voltage	Vc	$I_{PP}=3.5A, t_P = 8/20\mu s$		11.5		V
Peak pulse Current	IPP	t _P = 8/20µs			3.5	А
Junction Capacitance	CJ	$V_R=0V, f = 1MHz$		2.7	3.5	pF

Rating & Characteristic Curves



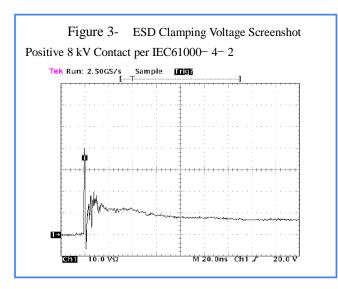
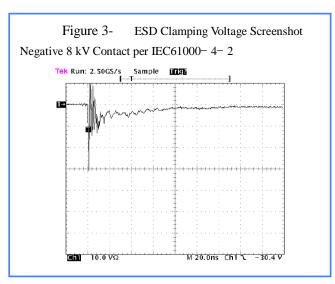


Figure 2-Pulse Waveform
 Ipp – Peak Pulse Current (% of Ipp)

 0
 0
 0
 0
 0

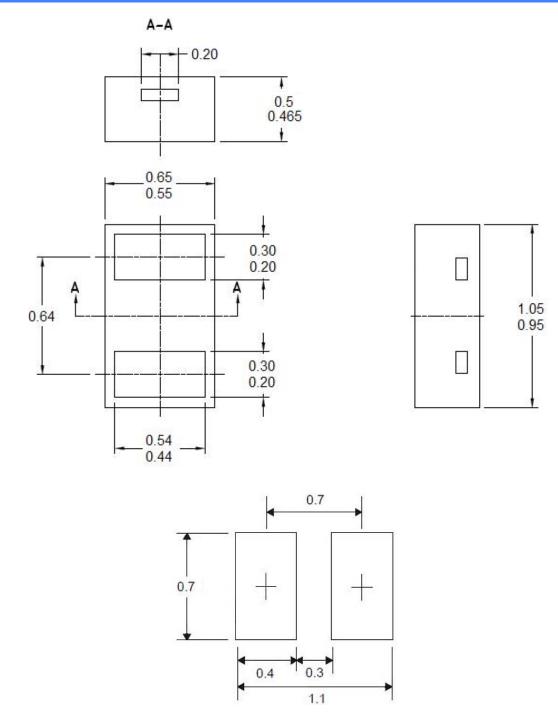
 0
 0
 0
 0
 0
 0
Test Peak Value lpp Waveform Parameters t_f = 8us . t_d = 20us e-t $t_d = t \mid lpp/2$ 0 5 10 15 20 25 30 t - Time (us)



2 www.yint.com.cn



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.