

DESCRIPTION

The RLSD32A031C is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, portable devices, digital cameras, power supplies and many other portable applications where board space comes at a premium. Also because of its low capacitance, it is suited for use in high frequency designs such as high speed line applications.

This device has been specifically designed to protect sensitive components which are connected to data and transmission lines from overvoltage caused by ESD (electrostatic discharge), and EFT (electrical fast transients).

ORDERING INFORMATION

♦ Device:RLSD32A031C
♦ Package: SOD-323

♦ Marking: 2A

♦ Material: Halogen free and RoHS complaint

♦Packing: Tape & Reel

♦ Quantity per reel: 3,000pcs

FEATURES

- ♦ESD per IEC 61000-4-2 ±30 kV (Contact)
- ♦ESD per IEC 61000-4-2 ±30 kV (Air)
- ♦IEC61000-4-4 (EFT) 40A (5/50ns)
- ♦Peak power dissipation: 500W (8/20µs)
- ♦ Protects one Vcc or data line
- ♦Low clamping voltage
- ♦ Working voltages: 3.3V
- ♦Low leakage current
- ♦Low capacitance

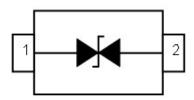
MACHANICAL DATA

- ♦SOD-323 package
- ♦Flammability Rating: UL 94V-0
- ♦High temperature soldering guaranteed: 260°C/10s
- ♦ Packaging: Tape and Reel
- ♦ Reel size: 7 inch

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- ♦ Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- ♦ Notebooks, Desktops, and Servers
- ♦Portable Instrumentation
- ♦ Networking and Telecom
- ♦ Serial and Parallel Ports
- ♦ Peripherals

PIN CONFIGURATION



PACKAGE OUTLINE



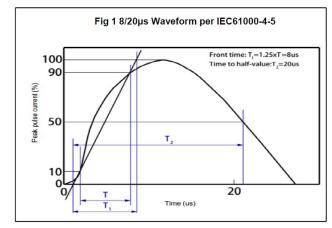


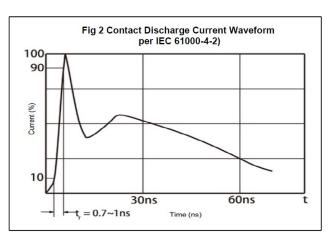
ABSOLUTE MAXIMUM RATING						
Symbol	Parameter	Value	Units			
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV			
P _{PP}	Peak Pulse Power (8/20µs)	500	W			
T _{OPT}	Operating Temperature	-55~150	°C			
T _{STG}	Storage Temperature	-55~150	°C			

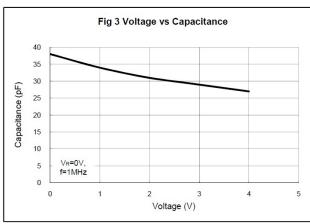
ELECTRICAL CHARACTERISTICS (Tamb=25°C)								
Symbol	Parameter	Test Condition	Min	Тур	Max	Units		
V_{RWM}	Reverse Working Voltage				3.3	V		
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	4.0		6.0	V		
I _R	Reverse Leakage Current	V _{RWM} = 3.3V			1.0	μΑ		
V _C	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			6.5	V		
V _C	Clamping Voltage	$I_{PP} = 28A, t_p = 8/20 \mu s$		13	18	V		
CJ	Junction Capacitance	V _R = 0V, f = 1MHz		38	45	pF		

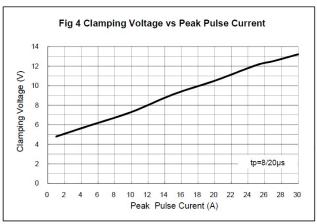


ELECTRICAL CHARACTERISTICS CURVE











SOD-323 PACKAGE OUTLINE DIMENSIONS -----Dimensions In Millimeters Symbol Min Max 2**.**85mm 1.00 A1 0.000 0.100 1_6mm A2 0.800 0.900 0.250 0.350 b С 0.080 0.150 D 1.200 1.400 Ε 1.600 1.800 E1 2.500 2.700

1.800

0.250

0°

0.475 REF

L

L1

θ

2.040

0.400

8°

Recommended Pad outline

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