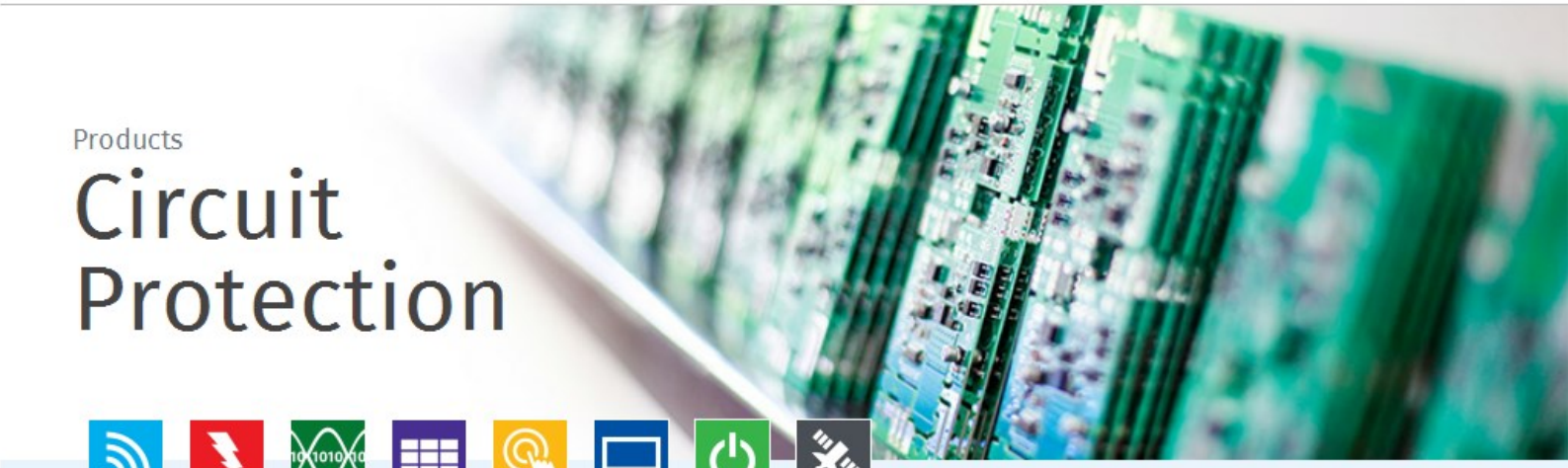

Products

Circuit Protection

Circuit Protection
Low-Capacitance TVS

Semtech RClamp3331Z2C

01005 Size RClamp® 1-Line, 3.3V ESD Protection

RailClamp® TVS diodes are ultra-low capacitance devices designed to protect sensitive electronics from damage or latch-up due to ESD, EFT and EOS. They are designed for use on high-speed ports in applications such as cell phones, notebook computers, and other portable electronics. These devices offer desirable characteristics for board level protection including fast response time, low operating and clamping voltage, and no device degradation.

Overview

Features

- High ESD withstand voltage: +/-18kV (contact), +/- 22kV (air) per IEC 61000-4-2
- Ultra-small 01005 package
- Protects 1line
- Low ESD clamping voltage
- Working voltage: 3.3V
- Capacitance: 0.35pF (Typical)
- Low leakage current
- Low dynamic resistance: 0.18 Ohms (Typical)

Applications

- Smart Phones
- Wearables
- IoT Devices
- FM Antenna
- Tablet PC

Packaging

- SLP0402P2X4C (0.43 x 0.23 x 0.15mm)

Order Codes

- RClamp3331Z2CTKT

Datasheets and Resources >

Tools and Resources

Datasheets and Resources

Pb Free/ROHS

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High-Current Lightning Protection

Low-Capacitance TVS

Low-Voltage ESD Protection

Automotive

SClamp™ System Protection

Interfaces

Antenna

Automotive Ethernet

Automotive High Speed

Ethernet

HDMI

RS-485

USB

VBUS

Blog Articles

Shield USB4 Against EOS and ESD

Protecting Wi-Fi 6/6E Routers From Overvoltage

Protection of IO-Link With Semtech's SurgeSwitch

In the News

Automotive CAN protection

Semtech SurgeSwitch protects circuits and systems operating in harsh

Semtech Strengthens its RClamp Platform with a TVS Array for Protecting Industrial and Telecommunications Electronics

Press Releases

Semtech Unveils SurgeSwitch™ System Transient Protection Product Line, Offering Compelling Performance Advantages Over Conventional TVS Devices

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