



CW3301

Ultra-Small, Slew-Rate-Controlled Load Switch

Features

- 1.1V to 5.5V Input Voltage Operating Range
- Maximum Continuous Current (I_{MAX}): 2A
- Typical R_{on} :
 - 30m Ω at $V_{IN}=5.5V$
 - 39m Ω at $V_{IN}=3.3V$
 - 62m Ω at $V_{IN}=1.8V$
 - 130m Ω at $V_{IN}=1.1V$
- Slew Rate Control:
 - $t_R=115\mu s$, Typ.
- Ultra-low Power Consumption:
 - On State I_Q : 5nA Typ. at $V_{IN}=1.8V$
 - Off State I_{SD} : 12nA Typ. at $V_{IN}=1.8V$
- Quick Output Discharge (QOD) Supported
- Internal ON Pull-down Resistor
- Lead-free WLCSP-4 package

Applications

- Wearables
- Smartphone
- IoT Devices
- Low-Power Handheld Devices

General Description

The CW3301 is an ultra-small and ultra-efficiency, 2A rated load switch with integrated slew rate control. The best in class efficiency makes it an ideal choice for use in wearables, IoT and mobile devices.

The CW3301 input voltage range operates from 1.1V to 5.5V to provide power-disconnect capability for post-regulated power rails. The integrated slew rate control can enhance system reliability by mitigating bus voltage swings during switching events and specifically limits inrush current during turn-on to minimize voltage drop.

The CW3301 features an ultra-efficient technology to low the quiescent current (I_Q) and shutdown current (I_{SD}), which helps to reduce system leakage current and increase battery lifetime.

The CW3301 is controlled by a logic input (ON pin) compatible with standard CMOS GPIO circuitry.

The IC is available in a tiny lead-free 0.4mm pitch, 0.76mm x 0.76mm, 4-ball WLCSP package.

Application Diagram

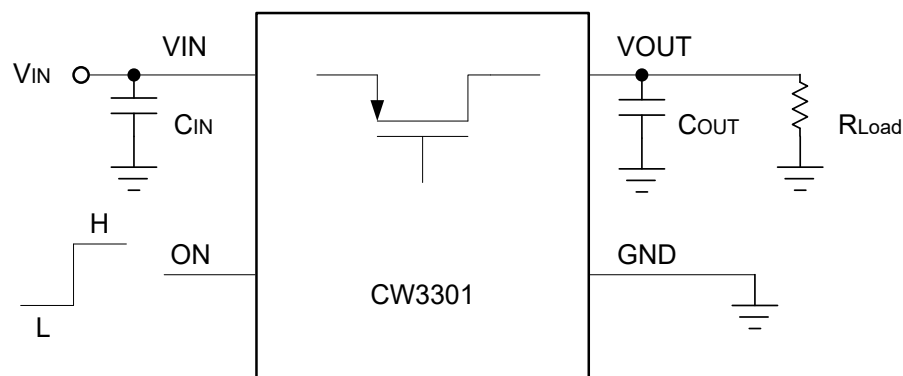


Figure 1. Typical Application

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