

Ultra-Low Noise Ultra-Fast 300mA LDO Regulator

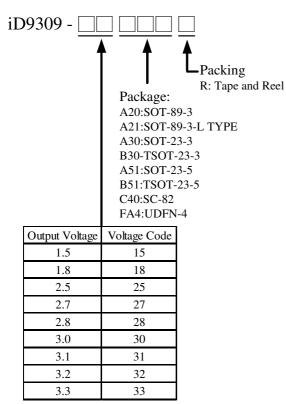
General Description

The iD9309 is a 300mA, low dropout and low noise linear regulator with high ripple rejection ratio and fast turn-on time. It has fixed output voltage ranging from 1.5V to 3.3V.

The iD9309 includes a reference voltage source, an error amplifier, driver transistors and an internal current limiter. The current limiter's holdback circuit operates as a short protection.

The iD9309 works well with low ESR ceramic capacitors, suitable for portable RF and wireless battery-powered applications with stringent space requirements and demanding performance. It also offers ultra low noise output and has low quiescent current.

Ordering Information



Other voltage outputs may be available. For further details, please contact an iDesyn sales or distributor.

Features

- Ultra-Low-Noise Application
- Wide 2.5V to 7V Operating Range
- Quick Start-up
- Current Limiting Protection
- Thermal Shutdown Protection
- Low Dropout : 200mV @ 300mA
- High Ripple Rejection 65dB@1kHz
- Standby Current Less Than 0.1µA
- Auto Discharge

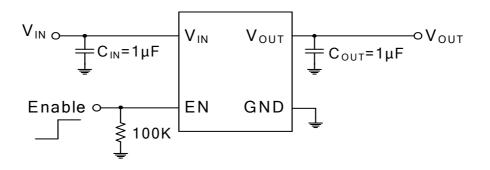
Applications

- Battery-Powered Equipment
- Portable Instruments
- Digital Camera
- WLAN Communication
- Hand-Held Instruments

Marking Information

For marking information, please contact our sales representative directly or through distributor around your location.

Typical Application Circuit





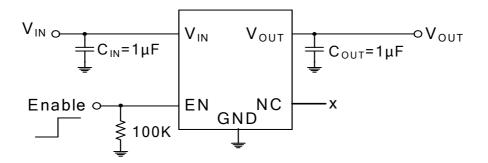


Figure 2. (T)SOT-23-5 Package

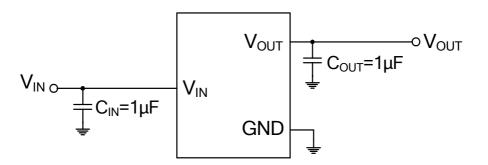


Figure 3. (T)SOT-23-3 and SOT-89-3 Package