

Product Overview

LV5068V: Non-Synchronous Buck Controller, Switching, 1-Channel

For complete documentation, see the data sheet.

The LV5068V is a Non-Synchronous Buck Controller, designed to operate from a wide range of input voltages (4.5 V to 40 V) and to exhibit very low current consumption under light load (55 μ A typ). The LV5068 is extremely flexible and allows the designer to set the switching frequency (300 kHz to 2.2 MHz), the current limit and a soft-start through an external capacitor. In addition, the device may be synchronised with an external signal. The LV5068V incorporates output voltage monitoring with a PowerGood pin, and protection features include built-in overcurrent protection, input undervoltage lockout as well as thermal shutdown capability. The LV5068V is available in a 16-pin SSOP package.

Features

- Maximum value of light load mode current is 80 μ A.
- Built-in OCP circuit with P-by-P method
- When P-by-P is generated continuously, it shifts to the HICCUP operation. If connect C-HICCUP to GND pin, then latch-off when over current.
- The oscillatory frequency can be set by the external pin. The oscillatory frequency is 300 kHz to 2.2MHz
- Built-in UVLO, TSD
- The device is capable of Synchronous operation with an external signal

Applications

- Power Supply for standby uControllers

Benefits

- Enhanced efficiency at lower output current
- Protects against over current conditions
- Allows for selectable protection
- Allows for design flexibility
- Protection feature
- Allows for frequency synchronization

End Products

- Set-Top box, DVD players, HDD
- Printers
- LCD monitors and TV

For more information please contact your local sales support at www.onsemi.com.

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