

NCP6354

Synchronous Buck Converter, PWM, 3.0 MHz, 2.0 A, with Power Good

Product Overview

For complete documentation, see the data sheet.

The NCP6354, a synchronous buck converter, which is optimized to supply the different sub systems of portable applications powered by one cell Li-ion or three cell Alkaline/NiCd/NiMH batteries. The device is able to deliver up to 2 A on an external adjustable voltage or a fixed output voltage range from 0.6 V to 3.3 V upon request. Operation with 3 MHz switching frequency allows employing small size inductor and capacitors. Input supply voltage feedforward control is employed to deal with wide input voltage range. Synchronous rectification offers improved system efficiency. The NCV6354 is in a space saving, low profile 2.0x2.0x0.75 mm WDFN-8 package.

Features

- 2.3 V to 5.5 V Input Voltage Range
- External Adjustable Voltage
- Specific Fixed Voltage in Range of 0.6 V to 3.3 V is Available upon Request
- Up to 2 A Output Current
- 3 MHz Switching Frequency (1.5 MHz Version is Available upon Request)
- Synchronous Rectification
- Enable Input
- Power Good Output
- Soft Start
- Over Current Protection

For more features, see the data sheet

Applications

- Portable & Wireless Applications
- Computing & Peripherals Applications
- Consumer Applications

End Products

- Cellular Phones, Smart Phones, and PDAs
- Portable Media Players
- Digital Still Cameras
- Wireless and DSL Modems
- USB Powered Devices

Application Diagram

