

NCV6354

PWM Synchronous Step Down Converter with Power Good, 3.0 MHz, 2.0 A

Product Overview

For complete documentation, see the data sheet.

The NCV6354, 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
- 3 MHz Switching Frequency
- Up to 2A output current

Benefits

- Support Latest Battery
- Reduced output inductor and capacitor size

Applications

- Computing & Peripherals Applications
- Consumer Applications

End Products

- USB Powered Devices
- Game and Entertainment System

Application Diagram

