Product Overview

NCP81044: Synchronous Buck Controller, Low Voltage

For complete documentation, see the data sheet.

The NCP81044 is a PWM control designed to operate from a 5 V or 12 V supply. These devices are capble of producing an output voltage as low as 0.8 V. These devices provide an optimal level of integration to reduce size and cost of the power supply. The NCP81044 provides a 1 A gate driver design and an internally set 275 kHz oscillator. In addition to the 1 A gate drive capability, other efficiency enhancing features of the gate driver include adaptive non-overlap circuitry. The device also incorporate an externally compensated error amplifier and a capacitor programmable soft-start function. Protection features include programmable short-circuit protection and under-voltage lockout (UVLO).

Features

- Input Voltage Range from 4.5 to 13.2 V
- Voltage Mode PWM Control
- 0.8 V +/- 1.0 % Internal Reference Voltage
- Adjustable Output Voltage
- Capacitor Programmable SoftStart
- Internal 1 A Gate Drivers
- Programmable Current Limit

Benefits

- Versatility
- Ease of use
- Enhanced performance
- Versatility
- Ease of use
- Enhanced performance
- Ease of use

Applications

- Graphics Cards
- DSP & FPGA Power Supply
- DCDC Regulator Modules
- Desktop Computers
- Servers / Networking

End Products

- DC-DC Regulator Modules

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

Created on: 9/20/2019