Product Overview

ADP3414: Dual Bootstrapped MOSFET Driver

For complete documentation, see the data sheet.

The ADP3414 is a dual MOSFET driver optimized for driving two N-channel MOSFETs which are the two switches in a nonisolated synchronous buck power converter. Each of the drivers is capable of driving a 3000 pF load with a 20 ns propagation delay and a 30 ns transition time. One of the drivers can be bootstrapped and is designed to handle the high voltage slew rate associated with floating high side gate drivers. The ADP3414 includes overlapping drive protection (ODP) to prevent shoot-through current in the external MOSFETs.

Features

- All in one synchronous buck converter
- One PWM generates both drives
- Anti cross-conduction protection circuitry
- Bootstrapped high side driver
- Pulse-by-pulse disable control

Applications

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- Single-Supply Synchronous Buck Converters
- Standard-to-Synchronous Converter Adaptations

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