Product Overview

ADP3418: Dual Bootstrapped, 12 V MOSFET Driver with Output Disable

For complete documentation, see the data sheet.

The ADP3418 is a dual, high voltage MOSFET driver optimized for driving two N-channel MOSFETs, the two switches in a nonisolated, synchronous, buck power converter. Each of the drivers is capable of driving a 3000 pF load with a 30 ns transition time. Each of the drivers is capable of driving a 3000 pF load with 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 ADP3418 includes overlapping drive protection to prevent shoot-through current in the external MOSFETs.

Features

- Output disable control turns off both MOSFETs to float output per Intel VRM 10 specification
- One PWM generates both drives
- Anti cross-conduction protection circuitry
- Bootstrapped high side driver

Applications

- Multiphase CPU supplies
- Single-supply synchronous buck converters

End Products

- Desktop computers

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