Product Overview

NCP5911: MOSFET Driver, IMVP7.0 Compatible, Synchronous Buck

For complete documentation, see the data sheet.

NCP5911 is a high performance dual MOSFET driver optimized to drive the gates of both high- and low-side power MOSFETs in a synchronous buck converter. It can drive up to a 3.0 nF load with a 25 ns propagation delay and 20 ns transition time.Adaptive anti-cross-conduction and power saving operation circuit can provide a low switching loss and high efficiency solution for notebook systems.A high floating top driver design can accommodate VBST voltage as high as 35 V, with transient voltages as high as 35 V. Bidirectional EN pin can provide a fault signal to controller when the gate driver fault detect under OVP, UVLO occur. Also, an undervoltage lockout function guarantees the outputs are low when supply voltage is low, and a thermal shutdown function provides the IC with overtemperature protection.

Features

- Fast rise and fall times
- Adaptive anti-cross-conduction circuit
- Zero cross detection function

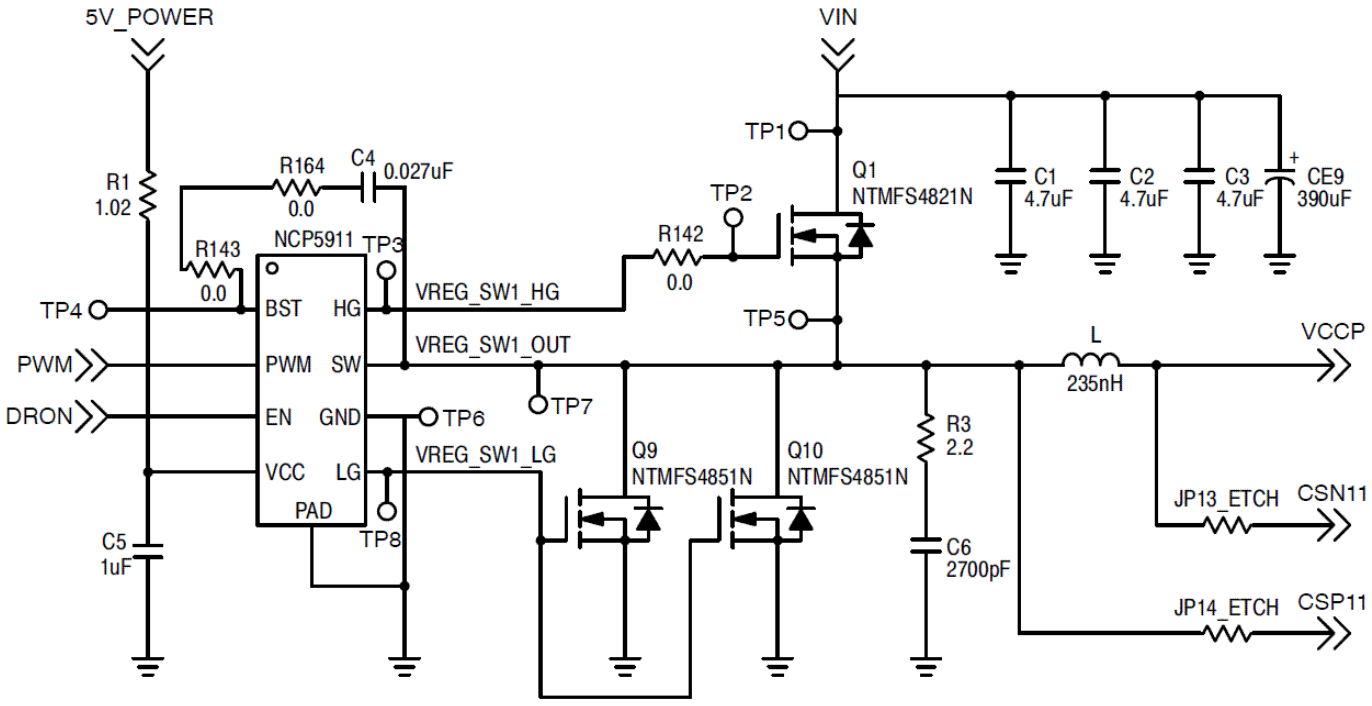
Applications

- Vcore Voltage Regulation

End Products

- Notebook Computers

Application Diagram



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