MP86965

Intelli-Phase™ Solution with Integrated High-Side and Low-Side MOSFETs and Driver

DESCRIPTION

The MP86965 is a monolithic half-bridge with built-in internal power MOSFETs and gate drivers. The MP86965 achieves 60A of continuous output current over a wide input supply range.

The device provides a monolithic IC approach that drives up to 60A of current per phase. Integrated drivers and MOSFETs offer high efficiency due to optimal dead time and reduced parasitic inductance. The MP86965 can operate from 100kHz to 2MHz.

The MP86965 offers many features to simplify system design. It works with controllers with tri-state PWM signals, and provides an accurate current sense to monitor inductor current and temperature sense to report the junction temperature.

The MP86965 is ideal for server applications where efficiency and small size are at a premium. It is available in a TLGA-31 (4mmx5mm) package.

FEATURES

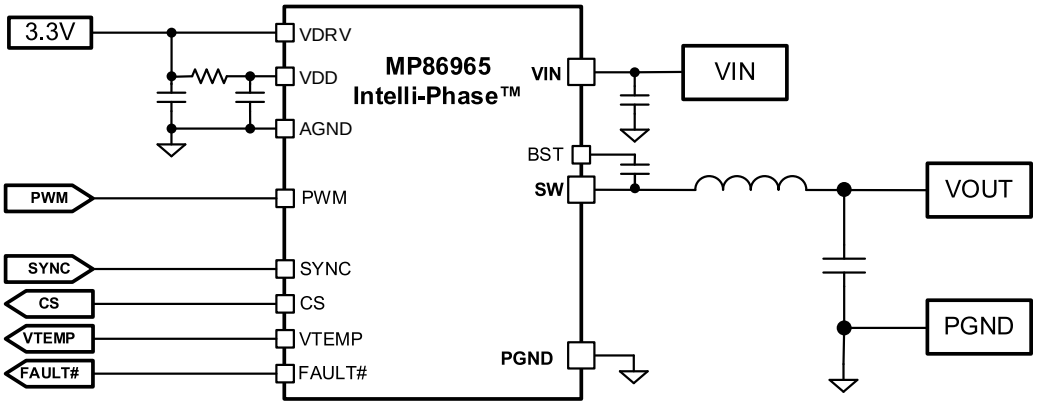
- Wide 4.5V to 16V Operating Input Range
- 60A Output Current
- Current Sense: Accu-Sense™
- Temperature Sense
- Accepts Tri-State PWM Signal
- Current Limit Protection
- Over-Temperature Protection (OTP)
- Fault Reporting
- Available in a TLGA-31 (4mmx5mm) Package

APPLICATIONS

- Server Core Voltage
- Graphics Card Core Regulators
- Power Modules

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TYPICAL APPLICATION



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