

DUAL SYNCHRONOUS PWM CONTROLLER WITH CURRENT SHARING CIRCUITRY AND AUTO-RESTART

FEATURES

- Dual Synchronous Controller with 180° out-of-phase
- Configurable to 2-Independent Outputs or 2-Phase Single Output
- Current Sharing Using Inductor's DCR
- Current Limit using MOSFET's $R_{DS(on)}$
- Hiccup/Latched Current Limit
- Latched Over-Voltage Protection
- Voc from 4.5V to 16V Input
- Programmable Switching Frequency up to 500KHz
- Two Independent Soft-Starts/Shutdowns
- 0.8V Precision Reference Voltage Available
- Power Good Output
- External Frequency Synchronization
- Halogen Free Product

APPLICATIONS

- Embedded Computer Systems
- Telecom Systems
- Point of Load Power Architectures

DESCRIPTION

The JTMA3146 IC combines a Dual synchronous Buck controller, providing a cost-effective, high performance and flexible solution. The JTMA3146 can be configured as 2-Independent or as 2-phase controller. The 2-phase configuration is ideal for high current applications. The JTMA3146 features 180° out of phase operation which reduces the required input/output capacitance and results to few number of capacitor quantity. Other key features offered by this device include two independent programmable soft starts, programmable switching frequency up to 500KHz per phase, under voltage lockout function. The current limit is provided by sensing the lower MOSFET's on-resistance for optimum cost and performance.

- 2-Phase Power Supply
- Graphic Card
- DDR Memory Applications

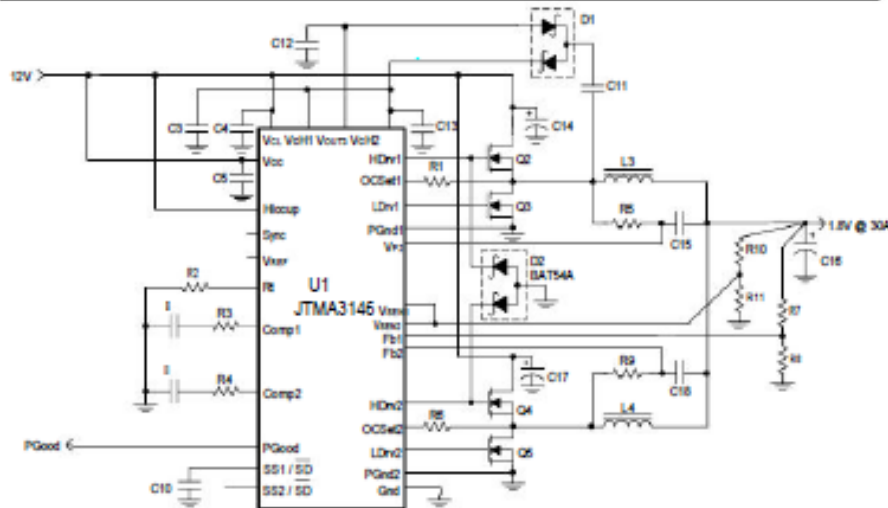


Figure 1 - Typical application of JTMA3146 in 2-phase configuration with inductor current sensing

PACKAGE ORDER INFORMATION

JTMA3146

Package Type
O : TSSOP-28
M : SOP-28

Data and specifications subject to change without notice.

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有需要详细的文件请发邮件: oumao18@itm-ic.com 联系或电话: 0755-262580208