MPC22167-130

16V, 130A, Dual-Phase Intelli-Module™ with Quiet Switcher™ Technology

DESCRIPTION

The MPC22167-130 is a dual-phase, non-isolated, high-efficiency step-down power module. It integrates driver MOSFETs (DrMOS) and inductors to provide high efficiency and a small footprint, which is ideal for server applications.

The MPC22167-130 has two independent outputs, which can be used separately or in parallel. It can achieve up to 130A (65A/phase) of output current (I_{OUTx}) across a wide input voltage (V_{IN}) range.

The MPC22167-130 offers many features to simplify system design. The device works with tri-state pulse-width modulation (PWM) signal controllers, has Accu-Sense™ current sensing to monitor the inductor current (I_L), and has temperature sensing to report the junction temperature (T_J).

The MPC22167-130 is available in an LGA-72 (9mmx9.9mmx7.65mm) package.

FEATURES

- Quiet Switcher™ Technology (QST) Limits Peak Switching Voltages
- Wide 4V to 16V Input Voltage (V_{IN}) Range
- Up to 130A Continuous Output Current (I_{OUTx})
- Accu-Sense™ Current Sense (CS)
- Temperature Sense
- Compatible with Tri-State Pulse-Width Modulation (PWM) Signals
- Over-Current Protection (OCP)
- Over-Temperature Protection (OTP)
- Fault Reporting
- Typical Weight: 3.4g
- Available in an LGA-72 (9mmx9.9mmx7.65mm) Package

APPLICATIONS

- Servers and Computing
- Field-Programmable Gate Arrays (FPGAs) and ASIC Core Power
- Graphic Card Core Regulators

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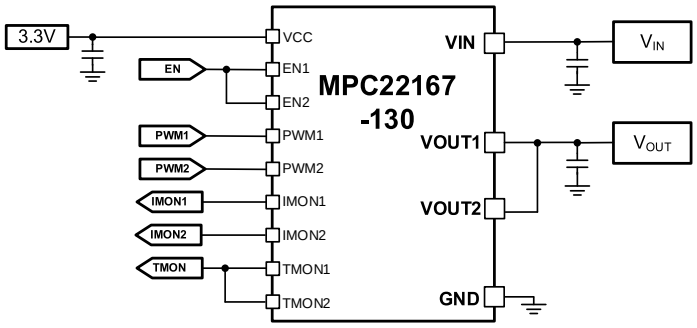
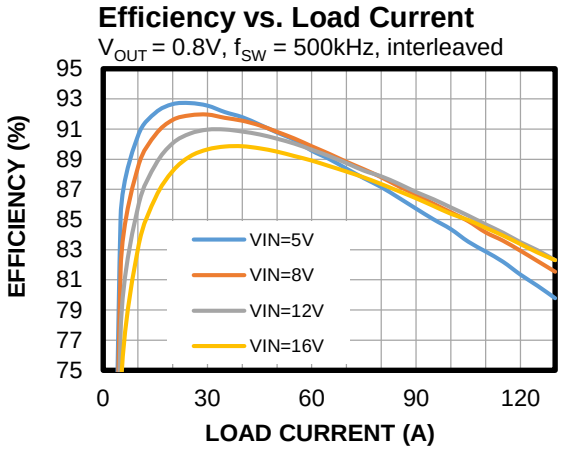
TYPICAL APPLICATION





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ORDERING INFORMATION

Part Number	Package	Marking	MSL Rating
MPC22167-130	LGA-72 (9mmx9.9mmx7.65mm)	Option 1: Side Label Option 2: Top IC	3

* For Tray, add suffix -T (e.g. MPC22167-130-T).

MPC22167-130 SIDE LABEL MARKING FOR OPTION 1

3 Lines Marking Information

YYWWAA

XXXXXX

LLLLLLLLLL

YYWWAA: Date Code
XXXXXX: Vendor's Serial Number
LLLLLLLLLL: LOT ID

* QR Code Content is the same as 3 lines marking information.

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