



Scalable, 16V, 4-Phase, Peak 160A Power Block Module

The MPM3699 is a 160A power block module that integrates four independent sets of driver MOSFETs and inductors.

Each phase of the MPM3699 can provide up to 40A of peak current and up to 30A of continuous current. The outputs of the four phases can be paralleled to provide up to 160A of peak current across a wide input voltage (V_{IN}) range. One or more MPM3699 devices can work with the MPM3698 or other controllers for a higher output current.

The MPM3699 offers many features to simplify system design. Each phase has an individual tri-state pulse-width modulation (PWM) input to work with the MPM3698 or controller. In addition, the MPM3699 has a separate accurate current-sense output and temperature output for reporting each phase's inductor current (I_L) and junction temperature (T_J).

The MPM3699 is ideal for applications where efficiency and small size are at a premium, and is available in a BGA-253L (15mmx30mmx5.18mm) package.

Features & Benefits

- Wide 3V to 16V Operating Input Voltage (V_{IN}) Range
- Up to 160A of Peak Output Current (I_{OUT})
- Accu-Sense™ Current Sense
- Temperature Sense
- Accepts Tri-State Pulse-Width Modulation (PWM) Signals
- Current-Limit Protection
- Over-Temperature Protection (OTP)
- Fault Reporting
- Available in a BGA-253L (15mmx30mmx5.18mm) Package



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