

3A, 18V, 340KHz Synchronous Step-Down Converter



General Description

The FP6199 is a synchronous buck regulator with integrated two 0.11Ω power MOSFETs. It achieves 3A continuous output current over a wide input supply range with excellent load and line regulation. Current mode operation provides fast transient response and eases loop stabilization. The device includes cycle-by-cycle current limiting and thermal shutdown protection. The FP6199 requires a minimum number of readily available external components to complete a 3A buck regulator solution.

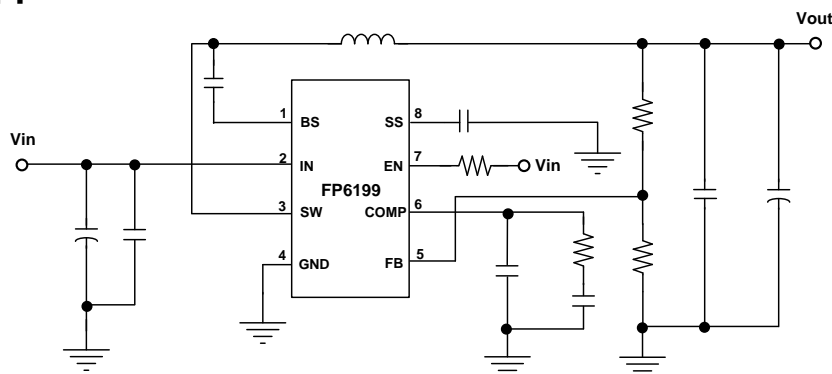
Features

- 3A Output Current
- 0.11Ω Internal Power MOSFET Switches
- Stable with Low ESR Output Ceramic Capacitors Up to 93% Efficiency
- Programmable Soft-Start
- Fixed 340KHz Frequency
- Thermal Shutdown
- Cycle-by-Cycle Over Current Protection
- Wide 4.5V to 18V Operating Input Range
- Output Adjustable From 0.923V to 16V
- Available SOP-8L (EP) Package
- Input Under Voltage Lockout

Applications

- Distributed Power Systems
- Battery Charger Network Cards
- Pre-Regulator for Linear Regulators
- DSL Modems

Typical Application Circuit



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