

High Efficiency, Synchronous, 4-Switch Buck-Boost Controller

FEATURES

- Single Inductor Architecture Allows V_{IN} Above, Below or Equal to V_{OUT}
- Wide V_{IN} Range: 4V to 36V Operation
- Synchronous Rectification: Up to 98% Efficiency
- Current Mode Control
- $\pm 1\%$ Output Voltage Accuracy: $0.8V < V_{OUT} < 30V$
- Phase-Lockable Fixed Frequency: 200kHz to 400kHz
- Power Good Output Voltage Monitor
- Internal LDO for MOSFET Supply
- Quad N-Channel MOSFET Synchronous Drive
- V_{OUT} Disconnected from V_{IN} During Shutdown
- Adjustable Soft-Start Current Ramping
- Foldback Output Current Limiting
- Selectable Low Current Modes
- Output Overvoltage Protection
- Available in 24-Lead SSOP and Exposed Pad (5mm $\times$ 5mm) 32-Lead QFN Packages

APPLICATIONS

- Automotive Systems
- Telecom Systems
- DC Power Distribution Systems
- High Power Battery-Operated Devices
- Industrial Control

DESCRIPTION

The **LTC3780** is a high performance buck-boost switching regulator controller that operates from input voltages above, below or equal to the output voltage. The constant frequency current mode architecture allows a phase-lockable frequency of up to 400kHz. With a wide 4V to 30V (36V maximum) input and output range and seamless transfers between operating modes, the LTC3780 is ideal for automotive, telecom and battery-powered systems.

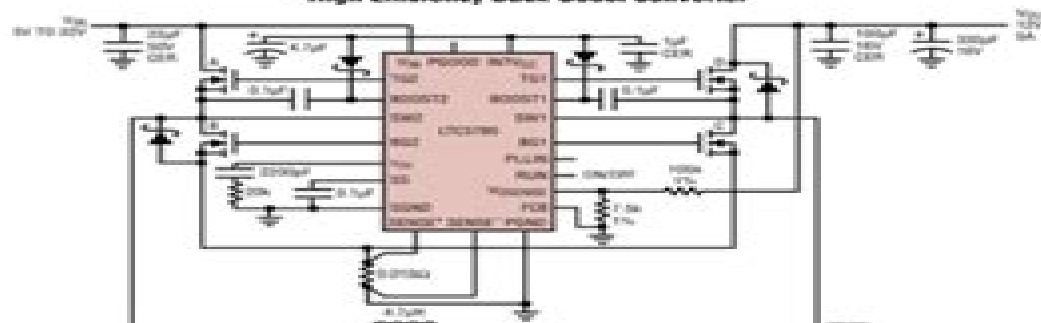
The operating mode of the controller is determined through the FCB pin. For boost operation, the FCB mode pin can select among Burst Mode[®] operation, discontinuous mode and forced continuous mode. During buck operation, the FCB mode pin can select among skip-cycle mode, discontinuous mode and forced continuous mode. Burst Mode operation and skip-cycle mode provide high efficiency operation at light loads while forced continuous mode and discontinuous mode operate at a constant frequency.

Fault protection is provided by an output overvoltage comparator and internal foldback current limiting. A power good output pin indicates when the output is within 7.5% of its designed set point.

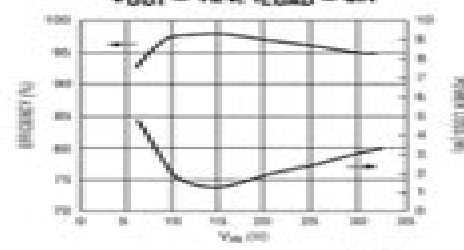
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TYPICAL APPLICATION

High Efficiency Buck-Boost Converter



Efficiency and Power Loss
 $V_{OUT} = 12V$, $I_{LOAD} = 5A$



Ltc3780 High Efficiency Synchronous 4 Switch Buck

JA Banks



Ltc3780 High Efficiency Synchronous 4 Switch Buck:

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