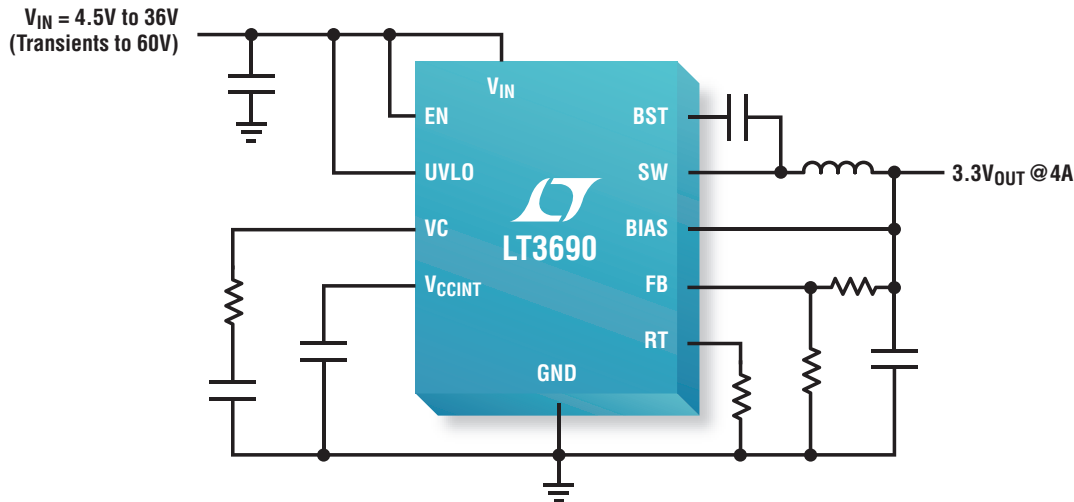


36V, 4A Sync Buck

Actual Schematic



70 μ A I_Q, <15mV_{P-P} Output Ripple and 92% Efficient

The LT[®]3690 brings a new level of performance and features for high voltage point-of-load step-down conversion. Its wide input voltage range of 3.9V to 36V, with 60V transients, meets the needs of many of the rails common to industrial, medical and automotive applications. Up to 4A of continuous output current can be supplied to the load with minimal thermal design. Its 70 μ A of quiescent current in standby maximizes battery life in “always-on” applications. With up to 1.5MHz switching frequency and a high level of integration, the external components are few and small, enabling a compact solution footprint.

Features

- Input Voltage Range: 3.9V to 36V (60V Transients)
- 4A of Continuous Output Current
- Quiescent Current of 70 μ A (12V_{IN} to 3.3V_{OUT})
- Low Output Ripple of <15mV_{P-P} in Burst Mode[®] Operation
- Programmable Switching Frequency: 170kHz to 1.5MHz
- Output Voltage Range: 0.8V to 20V
- Programmable Input Undervoltage Lockout
- Compact 4mm x 6mm QFN Package

LT3690 Demo Circuit (Actual Size)



(20mm x 15mm)

Info & Free Samples

www.linear.com/3690

1-800-4-LINEAR



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