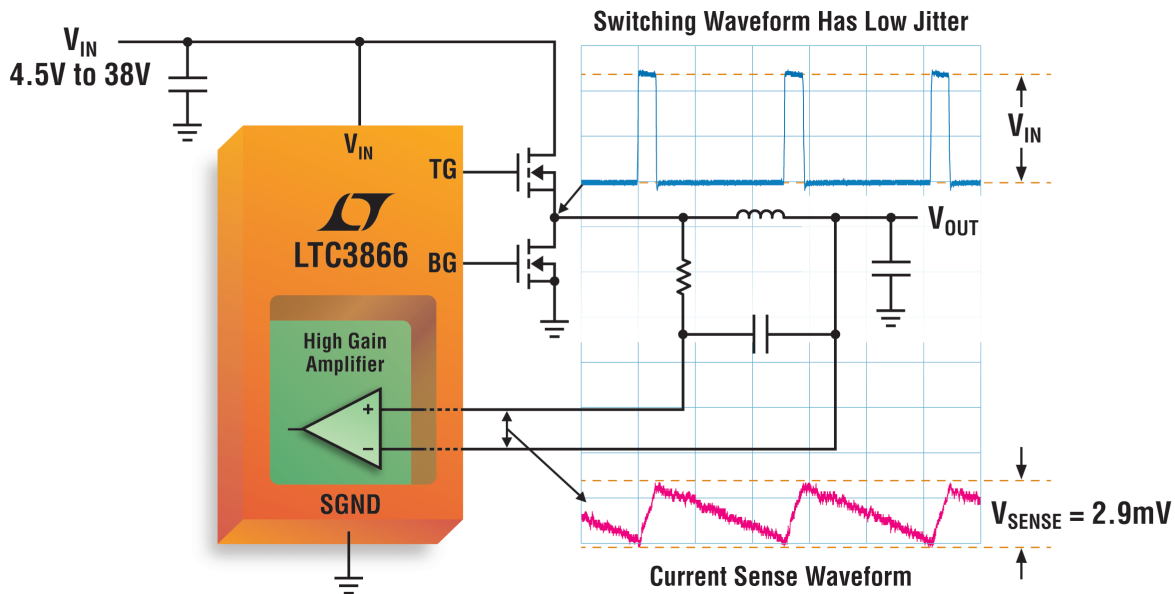


Sub 0.2mΩ DCR Sensing Current Mode Controller



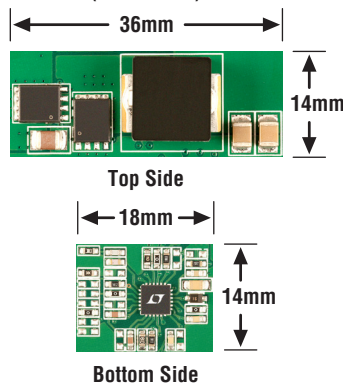
Breakthrough Controller Enables High Efficiency at >40A

The LTC[®]3866 is the first true current mode controller to break through the sub-1mΩ DCR sensing barrier while maintaining stability and eliminating the switching jitter commonly found in low DCR applications. It can operate with a peak-to-peak sense voltage of just a few mV for optimum efficiency at high output current. The LTC3866 also includes a high speed differential output remote sense amplifier and a $\pm 0.5\%$ accurate reference for small total DC V_{OUT} error over the full operating temperature range.

Features

- V_{OUT} Maximum Total DC Error: $\pm 0.5\%$ over Temp
- Remote V_{OUT} Sense Amp
- Temperature Compensated Inductor DCR Sense
- Integrated FET Drivers
- Compatible with DrMOS and Power Blocks
- Synchronizable and Easily Paralleled for Multiphase Outputs
- Integrated Thermal Shutdown

LTC3866 Demo Circuit (Actual Size)



Info & Free Samples

www.linear.com/product/LTC3866

1-800-4-LINEAR



video.linear.com/p4567

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