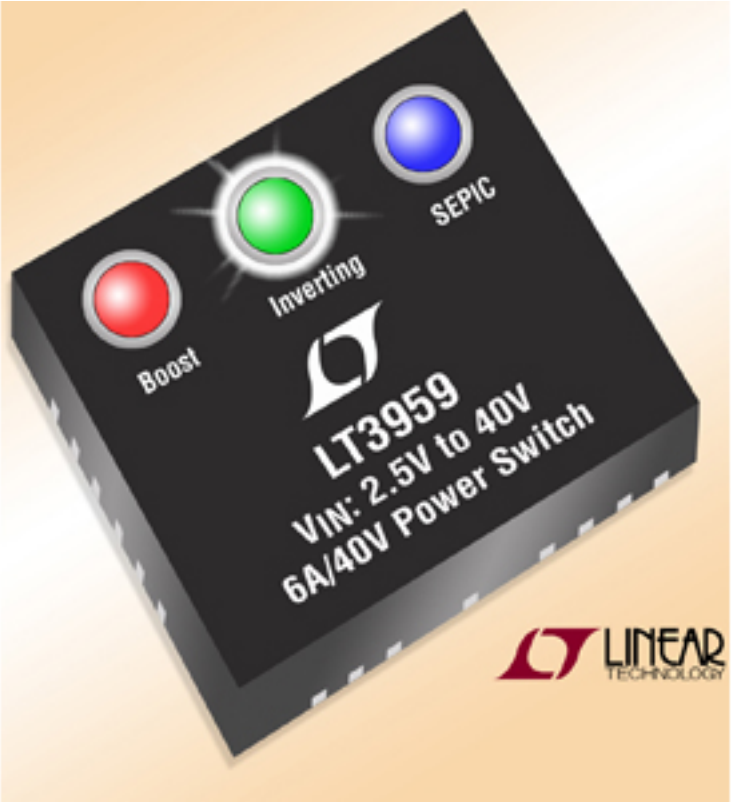
5A DC/DC converter generates positive or negative regulated voltage



Linear Technology Corporation announces the LT3959, a highly versatile DC/DC converter for boost, SEPIC and inverting power supply applications. This device operates over an input voltage range of 2.5V to 40V, has an onboard 6A/40V power switch and achieves efficiencies up to 96%, making it well suited for industrial, automotive, medical and telecom applications.

The LT3959 can generate either positive or negative regulated output voltage with its two internal voltage feedback error amplifiers and reference voltages. One set is for positive output voltages and the other is for negative output voltages, both off a single feedback pin. With a programmable fixed or synchronizable operating frequency from 100kHz to 1MHz, designers can choose a wide range of inductors and capacitors to optimize size, performance and cost. The LT3959's current-mode control results in stable operation over a wide range of supply and output voltages. The device supports designs using only ceramic capacitors, enabling a smaller solution size. Additional features include programmable soft-start, adjustable input undervoltage lockout and a power good pin.

The LT3959 operates from a -40°C to 125°C temperature range and is available in a 5mm x 6mm QFN-36 package. The 1000-piece price starts at $3.05 each. For more information, visit www.linear.com/product/LT3959 [1].

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[1] http://www.linear.com/product/LT3959