



High Side, High Frequency MOSFET Gate Driver Features -55°C to 150°C Operating Junction Temperature Range

MILPITAS, CA – October 1, 2013 – Linear Technology Corporation announces the [LTC4440A-5](http://www.linear.com/product/LTC4440A-5), a high-side, high frequency N-channel MOSFET gate driver that operates with an input voltage up to 80V and continues to function with transients up to 100V. This driver, combined with power MOSFETs and one of Linear Technology's many DC/DC controllers, forms a complete power supply.

The LTC4440A-5 can operate with a gate drive voltage from 4V to 15V. It is optimized for driving logic-level MOSFETs and contains an undervoltage lockout circuit that disables the external MOSFET when activated. The input ground-referenced logic signal is internally level-shifted to the high-side gate drive supply, which can operate continuously at up to 95V above ground. With 6V of gate drive, the LTC4440A-5 has a 1.1A peak pull-up current and a 1.8 Ohm pull-down impedance, making it ideal for driving high gate capacitance, high current MOSFETs, along with driving multiple MOSFETs in parallel for higher current applications. Its fast 10ns rise and 7ns fall time when driving a 1,000 pF load minimize switching losses.

The LTC4440A-5 I-grade version operates over a -40°C to 125°C junction temperature range. The H-grade version is guaranteed over a -40°C to 150°C operating junction temperature range and the MP grade is guaranteed from -55°C to 150°C, making it ideal for automotive, industrial and military applications subjected to extreme ambient temperatures.

The LTC4440A-5 is available in a thermally enhanced 8-lead MSOP package. The 1000-piece price starts at \$1.89 each. For more information, visit www.linear.com/product/LTC4440A-5


Photo Caption: High-Side MOSFET Driver

Summary of Features: LTC4440A-5

- Input Voltage Range: Up to 80V continuous, 100V Transients
- Powerful 1.1A Peak Pull-Up Driver (with 6V Gate Drive Supply)
- Powerful 1.8 Ohm Pull-Down Driver (with 6V Gate Drive Supply)
- 7ns Fall Time Driving 1000pF Load
- 10ns Rise Time Driving 1000pF Load
- Drives Standard Threshold N-Channel MOSFETs
- TTL/CMOS Compatible Inputs with Hysteresis
- Input Threshold Independent of Supply Voltage
- Undervoltage Lockout
- Thermally Enhanced 8-Lead MSOP Package
- I Grade: -40°C to 125°C Operating Junction Temp Range
- H Grade: -40°C to 150°C Operating Junction Temp Range
- MP Grade: -55°C to 150°C Operating Junction Temp Range

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

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