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Fast 150V High Side N-Channel MOSFET Driver Provides 100% Duty Cycle Capability

MILPITAS, CA & NORWOOD, MA – July 6, 2017 – Analog Devices, Inc., which recently acquired Linear Technology Corporation, announces the [LTC7001](#), a high speed, high side N-channel MOSFET driver that operates up to a 150V supply voltage. Its internal charge pump fully enhances an external N-channel MOSFET switch, enabling it to remain on indefinitely. The LTC7001's powerful 1Ω gate driver can easily drive large gate capacitance MOSFETs with very short transition times and 35ns propagation delays, well suited for both high frequency switching and static switch applications.

The LTC7001 is designed to receive a ground-referenced, low voltage digital input signal and quickly drive a high side N-channel power MOSFET whose drain can be between 0V and 135V (150V abs max). The LTC7001 operates from a 3.5V to 15V driver bias supply range with an adjustable undervoltage lockout. The fast 13ns rise and fall times, when driving a 1000pF load, minimize switching losses. Other features include an adjustable turn-on slew rate and an adjustable overvoltage lockout.

The LTC7001 is available in the MSOP-10 package with the leads configured for high voltage spacing. It is available in three operating junction temperature grades of extended and industrial versions from –40 to 125°C, high temperature automotive version from –40°C to 150°C and a military grade from –55°C to 150°C. The 1,000-piece price starts at \$2.40 each. For more information, visit www.linear.com/product/LTC7001.

Photo Caption: Fast 150V High Side N-Channel MOSFET Static Switch Driver

Summary of Features: LTC7001

- Wide V_{IN} Operating Range: 0V to 135V (150V Abs Max)
- Internal Charge Pump for 100% Duty Cycle Capability
- 1 Ω Pull-Down, 2.2 Ω Pull-Up for Fast Turn-On & Turn-Off Times
- Fast 35ns Propagation Delays
- Adjustable Turn-On Slew Rate
- Gate Driver Supply from 3.5V to 15V
- Adjustable Driver Supply V_{CC} Undervoltage Lockout
- Adjustable V_{IN} Overvoltage Lockout
- CMOS Compatible Input

Pricing shown is for budgetary use only and may differ due to local duties, taxes, fees and exchange rates.

Analog Devices just got more Powerful. On March 10, Analog Devices acquired Linear Technology, creating the premier high-performance analog company. More info at <http://lt.linear.com/07c>

About Analog Devices

Analog Devices (NASDAQ: ADI) is the leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>

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