



## **Precision 80 $\mu$ V Offset Op Amp Operates with 76V Input Range**

MILPITAS, CA – August 6, 2013 – Linear Technology introduces the [LT6015](#) single Over-the-Top<sup>®</sup> operational amplifier with outstanding precision over a 0V to 76V input common-mode voltage range. It incorporates multiple built-in fault tolerant features, resulting in no-compromise performance over wide operating supply and temperature ranges.

Over-the-Top inputs provide true operation well beyond the V rail. The LT6015 functions normally with its inputs up to 76V above V<sup>-</sup>, independent of whether V<sup>+</sup> is 3V or 50V. Input offset voltage is 80 $\mu$ V max, input bias current is 5nA and low frequency noise is 0.5 $\mu$ V<sub>P-P</sub>, making the LT6015 suitable for a wide range of precision industrial, automotive and instrumentation applications. Fault protection modes guard against negative transients, reverse battery and other conditions, making the LT6015 ideal fit for applications where the amplifier is at the analog interface to another board, and for high-side and low-side current sensing.

The LT6015 is available in a 5-lead SOT-23 package and is fully specified over -40°C to 85°C, -40°C to 125°C, and -55°C to 150°C temperature ranges. Prices start at \$1.53 each in quantities of 1000. For more information, visit [www.linear.com/product/LT6015](http://www.linear.com/product/LT6015)


**Photo Caption:** Op Amp Provides 80 $\mu$ V Precision with 0V to 76V Common-Mode Input Range

## Summary of Features: LT6015

- Input Common-Mode Range:  $V_-$  to ( $V_- + 76V$ )
- $V_{OS}$ :  $\pm 80\mu V$  (Maximum)
- Low Power: 315µA/Amplifier
- CMRR, PSRR: 126dB
- Gain Bandwidth Product: 3.2MHz
- High Voltage Gain: 1000V/mV
- Reverse Battery Protection to 50V
- No Phase Reversal
- No Supply Sequencing Problems
- Operating Temperature Range:  $-55^\circ C$  to  $150^\circ C$

## 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, µModule® subsystems, and wireless sensor network products. For more information, visit [www.linear.com](http://www.linear.com)

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