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## **36V<sub>IN</sub> with 60V Transient Protection, Dual Tracking 3.5A(I<sub>OUT</sub>), 2.25MHz Step-Down DC/DC Converter with 150°C Maximum Junction Temperature**

MILPITAS, CA – January 11, 2012 – Linear Technology announces the H-grade version of the [LT3692A](#), a monolithic, dual output step-down switching regulator that delivers up to 3.5A of continuous output current from each channel. It operates from a V<sub>IN</sub> range of 3V to 36V with transient protection to 60V, making it ideal for load dump and cold-crank conditions found in automotive applications. Independent input, shutdown, feedback, soft-start, current limit and comparator pins for each channel simplify complex power supply tracking/sequencing requirements. The LT3692A's switching frequency is user-programmable from 250kHz to 2.25MHz, enabling the designer to optimize efficiency while avoiding critical noise-sensitive frequency bands.

The H-grade versions operate up to a junction temperature of 150°C, compared to the E- and I-grade versions' 125°C maximum junction temperature. All electrical specifications are identical for the E, I and H. The H-grade parts are tested and guaranteed to the maximum junction temperature of 150°C, and are ideal for automotive and industrial applications which are subject to high ambient temperatures.

The LT3692AHUH is packaged in a 32-lead 5mm x 5mm QFN, priced starting at \$4.95 each for 1,000 piece quantities. LT3692AHFE is packaged in a thermally enhanced TSSOP-38 and is FMEA compliant, pricing starts at \$5.37 each for 1,000 piece quantities. Both versions are available from stock. For more information, visit [www.linear.com/product/LT3692A](http://www.linear.com/product/LT3692A)


**Photo Caption:** High Temperature Grade 36V<sub>IN</sub> with 60V Transient Protection, Dual Tracking 3.5A(I<sub>OUT</sub>), 2.25MHz Step-Down DC/DC Converter

## Summary of Features: LT3692AH

- Wide Input Range:
  - Operation from 3V to 36V
  - OVLO Protects Circuit Through 60V Transients
- Independent Supply, Shutdown, Soft-Start, UVLO, Programmable Current Limit & Programmable Power Good for Each 3.5A Regulator
- Die Temperature Monitor
- Adjustable/Synchronizable Fixed Frequency Operation from 250kHz to 2.25MHz with Synchronized Clock Output
- Independent Synchronized Switching Frequencies Optimize Component Size
- Antiphase Switching
- Outputs Can Be Paralleled
- Flexible Output Voltage Tracking
- Low Dropout: 95% Maximum Duty Cycle
- 5mm × 5mm QFN Package or FMEA Compliant 38-Pin Exposed Pad TSSOP Package
- -40°C to 150°C Junction Temperature 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 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, and  $\mu$ Module<sup>®</sup> subsystems.

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