

***LTC News for Immediate Release***

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## **High Efficiency Photoflash Capacitor Charger in 2mm x 3mm DFN**

MILPITAS, CA – September 19, 2005 – Linear Technology Corporation announces the LT3484 family of high efficiency, ultra-fast, photoflash capacitor (typically 320V) chargers. These ICs designed as stand-alone devices, eliminating microprocessor loading and the extensive software development normally associated with other photoflash charger solutions.

This family of photoflash capacitor charger ICs is designed for use in digital camera and mobile phone applications where space is at a premium. The LT3484's patented control technique allows it to use extremely small transformers and the onboard NPN power switch requires no external Schottky diode clamp, reducing solution size. Output voltage detection needs no external circuitry as the transformer turns ratio determines final charge voltage.

These devices have an input voltage range of 1.8V to 16V, making them ideal for applications powered by 2 AA alkaline cells or single cell Li-Ion batteries. The LT3484-0, -2 and -1 have primary current limits of 1.4A, 1A and 0.7A respectively, resulting in tightly controlled average input current of 500mA, 350mA and 225mA, respectively. The three versions are otherwise identical.

The CHARGE pin gives full control of the part to the user. Driving CHARGE low puts the part in shutdown. The DONE pin indicates when the part has completed charging. The LT3484 series of is offered in a tiny low profile 2mm x 3mm DFN package.

The LT3484-0, -1, and -2 are available from stock and priced at \$2.10 each in 1,000-piece quantities.

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**Summary of Features: LT3484-0, -1, -2**

- Highly Integrated IC in 2mm x 3mm DFN Package
- Reduces Solution Size
- Uses Small Transformers: 5.8mm x 5.8mm x 3mm
- Fast Photoflash Charge Times:
  - 4.6s for LT3484-0 (0V to 320V, 100uF,  $V_{IN} = 3.6V$ )
  - 5.7s for LT3484-2 (0V to 320V, 100uF,  $V_{IN} = 3.6V$ )
  - 5.5s for LT3484-1 (0V to 320V, 50uF,  $V_{IN} = 3.6V$ )
- Operates from Two AA Batteries, or Any Supply from 1.8V up to 16V
- Controlled Average Input Current
  - 500mA (LT3484-0)
  - 350mA (LT3484-2)
  - 225mA (LT3484-1)

COMPANY BACKGROUND: Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems. For more information, visit [www.linear.com](http://www.linear.com)

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