

## High-Current Flash LED Driver Provides Adjustable Over-Voltage Protection for Single or Dual LED Operation in Handheld Devices



National Semiconductor introduced a high-current light-emitting diode (LED) driver that enables dual LED operation for the camera flash function in portable multimedia devices. The LM3553 fixed-frequency, step-up DC/DC converter with two regulated current sinks, drives loads up to 1.2 A from a single-cell Li-Ion battery. The driver's adjustable over-voltage protection circuitry allows designers to drive two high-current LEDs in a series configuration, which maximizes the illumination-to-power ratio. The LM3553 can drive the camera in a high-power flash mode for still photography or a low-power torch mode for video recording. To configure the driver to fit their application, designers can use the adjustable 128-flash current levels and 16-flash timer durations via an I<sup>2</sup>C compatible interface. The LM3553 also features built-in time-out protection to protect the flash LEDs in case of an error condition. The flash LED driver maximizes the light output for low-power systems with peak efficiency equal to or greater than 90 percent.

National Semiconductor  
800-272-9959, [www.national.com](http://www.national.com) [1]

**Source URL (retrieved on 01/31/2015 - 8:03pm):**

<http://www.ecnmag.com/products/2008/10/high-current-flash-led-driver-provides-adjustable-over-voltage-protection-single-or-dual-led-operation-handheld-devices>

### Links:

[1] <http://www.national.com/>

# High-Current Flash LED Driver Provides Adjustable Over-Voltage Protection

Published on Electronic Component News (<http://www.ecnmag.com>)

---