

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 I²C 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 [1]

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