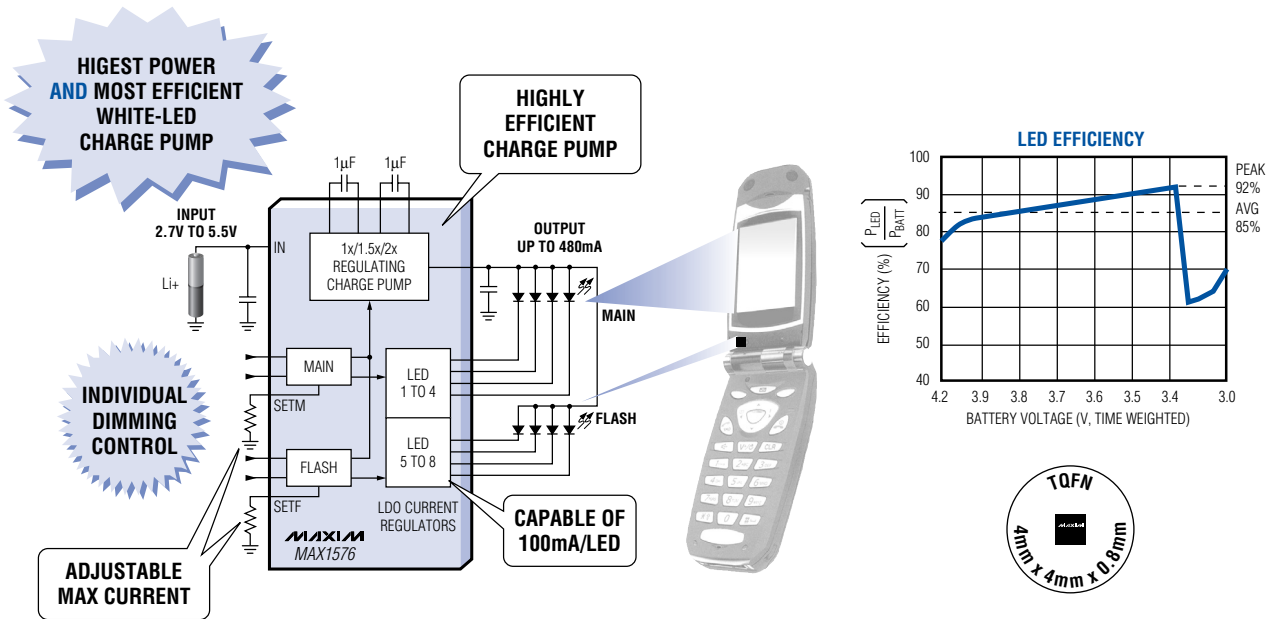


FIRST 480mA, HIGH-BRIGHTNESS, WHITE-LED CHARGE PUMP IMPROVES CAMERA PHONE IMAGING

Adaptive 1x/1.5x/2x Modes Achieve High-Efficiency Backlight and High-Current Flash

The MAX1576 is the first current-regulating charge pump for driving up to 8 white LEDs for backlight and flash in camera phones. It drives the main group of LEDs to provide uniform intensity with tight 0.7% current matching. It also drives the flash group of LEDs at up to 100mA per LED (400mA total) to enhance picture quality under low light conditions. This device allows both single-wire serial pulse and 2-bit logic-control dimming interfaces. It uses a proprietary mode-switching technique and very low-dropout, active-current regulators to achieve high efficiency.



- ◆ Power Up to 8 LEDs in Two Groups
 - ◆ Up to 4 x 30mA for Main
 - ◆ Up to 4 x 100mA for Flash
- ◆ 1MHz Fixed-Frequency Switching for Small Components
- ◆ Low Input Ripple and Low EMI
- ◆ Input-to-Output Disconnect During Shutdown
- ◆ Soft-Start Limits In-Rush Current
- ◆ Output-Voltage and Thermal Protection
- ◆ Priced at \$2.45[†]

For More White-LED Driver Information, Please Visit: www.maxim-ic.com/whiteLED

[†]1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.



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