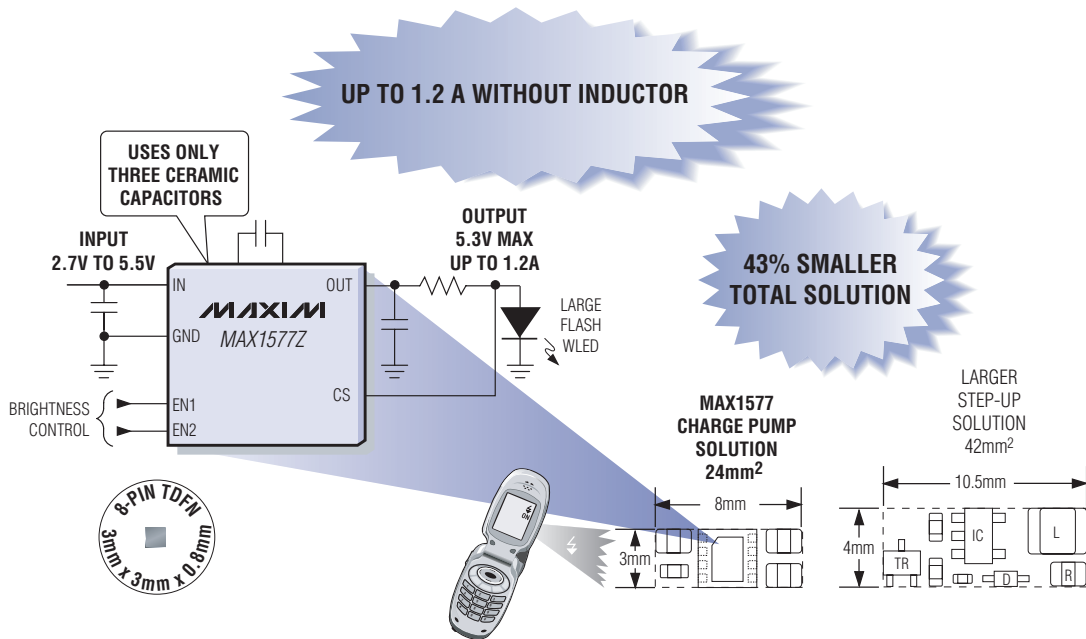


# FIRST 1.2A CHARGE PUMPS ENABLE SMALLEST WLED FLASH STROBE

## Replace Step-Up Inductor Solutions with 3mm x 3mm Charge Pump

The MAX1577Z/MAX1577Y are the highest-current charge pumps for driving white LEDs (WLEDs) for camera flashes with regulated current up to 1.2A. Requiring only three small ceramic capacitors, the devices eliminate the need for a step-up DC-DC converter and an inductor. This makes the MAX1577Z/MAX1577Y the smallest charge pumps to meet the height constraints in clamshell cell phones. Very low output resistance (0.6Ω) allows high flash brightness. Adaptive 1x/2x regulating charge-pump operation provides high efficiency (up to 92%) for movie mode, flashlight or backlighting.



- ◆ No Inductor Required
- ◆ 1.2A (typ), 800mA Guaranteed Output
- ◆ Up to 92% P<sub>LED</sub>/P<sub>BATT</sub> Efficiency in Movie Mode
- ◆ Flexible Brightness Control
  - ◆ 2-Bit Logic (100%, 33%, 20% and Off)
  - ◆ PWM for 20% to 100% Full-Scale
- ◆ Logic-Controlled Output Voltages Support Backlight, RGB, and Flash (MAX1577Y)
- ◆ Low Ripple and EMI
- ◆ Soft-Start Limits In-Rush Current
- ◆ Thermal Shutdown Protection
- ◆ Evaluation Kit Available to Speed Designs
- ◆ Priced at \$1.80<sup>†</sup>

<sup>†</sup>2500-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.

# MAXIM

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