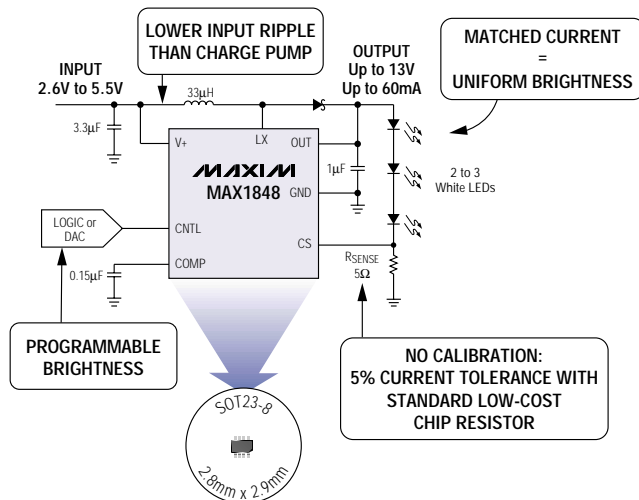


HIGH-EFFICIENCY SOT23 STEP-UP CURRENT SOURCE POWERS WHITE LEDs WITH UNIFORM BRIGHTNESS

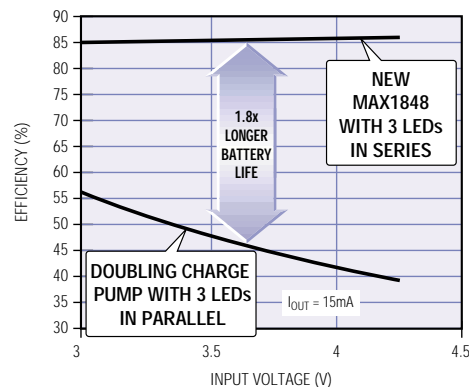
Matched LED Current → No Ballast Resistors & No Factory Calibration

The MAX1848 is the first high-efficiency step-up DC-DC converter that regulates current instead of voltage to power white LEDs for backlights in cell phones and PDAs. It powers two or three white LEDs in series, instead of in parallel, to eliminate brightness mismatch caused by different threshold voltages. An internal N-channel MOSFET switch provides 85% efficiency, which is 40% points better than traditional doubling charge pump solutions. Battery life is up to two times longer.

SERIES LEDs HAVE MATCHED CURRENT AND UNIFORM BRIGHTNESS



**40% POINTS MORE EFFICIENT
1.8x LONGER BATTERY LIFE**



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