

MIC2873/4

1.2A High-Brightness Flash LED Driver with Single-Wire Serial Interface

APPLICATIONS



SMARTPHONES/HANDSETS



DIGITAL CAMERAS



TABLET COMPUTERS

BENEFITS

- » **Compact Design,
Simple to Use**

FEATURES

- Small 1.3mm x 1.3mm WLCSP package
- High switching frequency:
 - MIC2873: 2MHz
 - MIC2874: 4MHz
- Requires only three external components
- Total solution size <10mm²

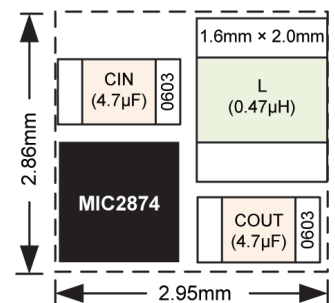
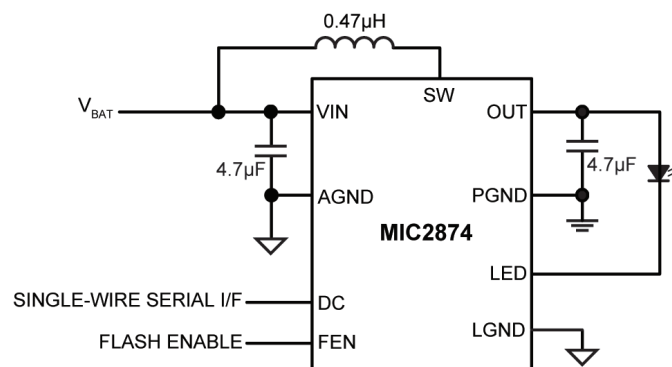
- » **High Performance**

- Best-in-class efficiency (up to 92%)
- Highly-accurate LED current control

- » **Fully Protected**

- Overvoltage protection
- LED short-circuit detection and protection
- True load disconnect
- Configurable safety timeout protection

TYPICAL APPLICATION



MIC2873/4

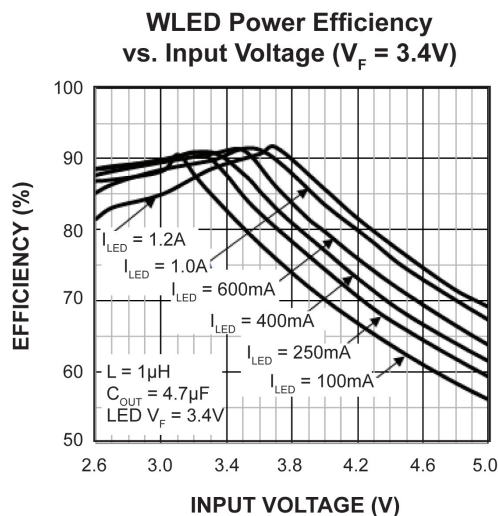
DESCRIPTION

The MIC2873/4 is a high-current, high-efficiency flash LED driver. The LED driver current is generated by an integrated inductive boost converter with a 2MHz (MIC2873) or 4MHz (MIC2874) switching frequency. This allows for the use of a very small inductor and output capacitor. These features make the MIC2873/4 an ideal solution for high-resolution camera phone LED flashlight driver applications.

The MIC2873/4 operates in either "flash" or "torch" modes that can be controlled via the single-wire serial interface or an external control pin. A robust single-wire serial interface allows the host processor to control the LED current and brightness.

The MIC2873/4 is available in a 9-bump 1.3mm x 1.3mm WLCSP package.

EFFICIENCY VS. INPUT VOLTAGE



ORDERING INFORMATION

Part	Marking Code	Switching Frequency	Operating Ambient Temperature Range	Package
MIC2873YCS	73A	2MHz	-40°C to +85°C	9-Bump 1.3mm x 1.3mm WLCSP
MIC2874YCS	74A	4MHz	-40°C to +85°C	9-Bump 1.3mm x 1.3mm WLCSP

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