

### PRODUCT SUMMARY

# SKY81296: 2.4 A/2 A Dual Independent Flash LED Driver with TrueFlash™

## **Applications**

- LED photo flash with Movie/Torch mode
- · Camera-enabled mobile devices
- · Cell phones/smartphones
- · Digital still cameras
- Multimedia mobile phones

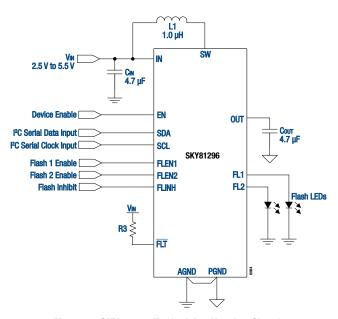


Figure 1. SKY81296 Typical Application Circuit



Skyworks Green<sup>TM</sup> products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green*<sup>TM</sup>, document number SQ04–0074.

#### **Features**

- Input voltage range: 2.5 V to 5.5 V
- Up to 1.5 A regulated output current, up to 2.4 A/2 A total combined output current from both outputs
- TrueFlash™:
  - Independent control of each LED using I<sup>2</sup>C and Flash enable pins
- Each flash LED can be configured separately in flash, movie mode, or notification mode
- Enables sophisticated flash management to optimize image quality
- Up to 90% efficiency
- Input voltage monitoring and dynamic flash current control with readback
- 2.75 MHz switching frequency
- . Soft-start and input current limit
- Separate flash enable/flash inhibit
- Programmable blinking LED notification
- Fast Mode Plus 1 MHz I2C programming:
- Flash and Movie mode (MM) current
- Input voltage monitor with programmable thresholds
- Current read-back in input voltage monitor operation
- Programmable safety timer
- Fault read back
- Fault protection:
  - Integrated flash safety timer
  - Over-voltage protection (open LED, open circuit)
  - Short circuit
  - Over-temperature protection
  - Programmable inductor current limit
- Flash mode input voltage monitor
- Open-drain fault output
- −40 °C to +85 °C temperature range
- Small WLCSP (20-bump, 1.75 mm × 2.30 mm, 0.4 mm pitch)

## **Ordering Information**

Model Name	Package	Manufacturing Part Number	Evaluation Board Part Number
SKY81296 2.4 A Dual Flash LED Driver with I <sup>2</sup> C Control Interface	1.75 mm × 2.30 mm, 20-bump WLCSP	SKY81296-11-001	SKY81296-EVB
SKY81296 2 A Dual Flash LED Driver with I <sup>2</sup> C Control Interface	1.75 mm × 2.30 mm, 20-bump WLCSP	SKY81296-12-001	SKY81296-EVB

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