

Product Overview

FL103: Primary-Side-Regulation PWM Controller for LED Illumination

For complete documentation, see the data sheet.

This third-generation Primary-Side-Regulation (PSR) and highly integrated PWM controller provides features to enhance the performance of LED illumination. The proprietary TRUECURRENT® technology enables precise CC regulation and simplified circuit for LED illumination applications. The result is lower-cost and smaller LED lighting compared to a conventional design or a linear transformer. To minimize standby power consumption, the proprietary green-mode function provides off-time modulation to linearly decrease PWM frequency under light-load conditions. Green mode assists the power supply in meeting the power conservation requirements. By using the FL103, LED illumination can be implemented with few external components and minimized cost.

Features

- Application Voltage Range: 80VAC ~ 308VAC
- Low Standby Power: <30mW
- High-Voltage Startup
- Few External Component Counts
- Constant-Voltage (CV) and Constant-Current (CC) Control without Secondary-Feedback Circuitry
- Green-Mode: Linearly-Decreasing PWM Frequency
- Fixed PWM Frequency at 50kHz and 33kHz with Frequency Hopping to Solve EMI Problems
- Peak-Current-Mode Control in CV Mode
- Cycle-by-Cycle Current Limiting
- VDD Over-Voltage Protection (OVP)

For more features, see the data sheet

Applications

- Lighting

For more information please contact your local sales support at www.onsemi.com.

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