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Non-Isolated Primary Side Regulation LED Controller with PFC and PWM Dimming

FEATURES

- Low Cost PSR LED Driver Solution with Up to 90% Efficiency
- Universal Input Voltage Range with High PF > 0.9
- Fast Start-Up <500ms
- Flicker-Free Operation with PWM Dimmers
- Fully Digital PWM Control without External Compensator
- Quasi-Resonant (QR) Operation for High Efficiency and Good EMI
- Built-in Line & LED Voltage Compensation for Good Line and Load regulation
- Built-in Protections:
 - LED Short and Open
 - Current Sense resistor Short and Open
 - Over Voltage Protection (OVP) on VDD
 - Cycle-by-cycle Current Limiting
 - Line Voltage Absent Protection
 - Over Temperature Protection (OTP)
 - Internal Soft Start
- SOT23-6L Package Available

GENERAL DESCRIPTION

KP114 is a non-isolated Primary Side Regulation (PSR) LED controller with PWM Dimming function, which is intended for driving low to medium power single stage power AC-DC LED drivers with factor correction (PFC) and includes special techniques to achieve flicker-free operations with the PWM dimmer for the non-isolated Buck designs.

Digital PWM control scheme is adopted in KP114 to achieve high power factor and excellent LED current regulations without external compensator. With primary side current sensing technology, KP114 enables the low cost LED designs with few external components. The quasi-resonant switching techniques will provide good EMI performance and high system efficiency.

The fault protection features include Under Voltage Lockout (UVLO), LED open or short, Current sense resistor short or open protection, Over Voltage Protection (OVP) and thermal protection function (OTP).

APPLICATIONS

- LED Lighting
- Dimmable Lights

TYPICAL APPLICATION CIRCUIT

