

Non-isolated Quasi-Resonant Buck LED Controller

FEATURES

- Integrated HV VDD Power Supply Circuit
- No VDD Cap Design
- ±5% CC Regulation
- Quasi-Resonant for High Efficiency
- Very Low VDD Operation Current
- Built-in AC Line CC Compensation
- Build in Protections:
 - Cycle-by-Cycle Current Limiting
 - Leading Edge Blanking (LEB)
 - **■** LED Short Protection
 - On-Chip Thermal Fold-back (OTP)
- Available with SOP-8 Package

APPLICATIONS

High Power LED Lighting

GENERAL DESCRIPTION

KP107L is a highly integrated LED Controller with Quasi-Resonant Buck (QR-Buck) constant current (CC) control for LED lighting applications without auxiliary winding.

KP107L combines a high voltage startup/IC supply circuit in one chip which reduced system design cost. The IC also adopts high accuracy current sensing control method which maintains accurate output current and good line/load regulation.

KP107L integrates functions and protections of Current Limit and Leading-Edge Blanking, Under Voltage Lockout (UVLO), Cycle-by-cycle Current Limiting (OCP), Thermal Foldback (OTP), LED Short Protection, etc.

TYPICAL APPLICATION CIRCUIT

