

Isolated PSR Constant Current LED Power Switch

FEATURES

- Integrated with 650V MOSFET
- Integrated HV Startup and VDD Power Supply Circuit
- PSR CC Control
- $\pm 5\%$ CC Regulation
- Very Low VDD Operation Current
- Built-in AC Line CC Compensation
- Build in Protections:
 - Output Over Voltage Protection (OVP)
 - Cycle-by-Cycle Current Limiting
 - Leading Edge Blanking (LEB)
 - LED Short/Open Protection
 - On-Chip Thermal Fold-back (OTP)
- Available with SOP-7 and DIP-7 Package

APPLICATIONS

- Down Light, Ceiling Light, Panel Light
- Other High Power LED Lighting

GENERAL DESCRIPTION

KP119X is a family of highly integrated power switch with DCM (Discontinuous Conduction Mode) Primary Side Regulation (PSR) constant current (CC) control for high power isolated LED lighting applications.

KP119X integrates a 650V power MOSFET and integrates high voltage startup/IC supply circuit and a novel transformer demagnetization circuit, which eliminates transformer auxiliary winding and reduces system design cost. The IC also adopts high accuracy current sensing control method which maintains accurate output current and good line/load regulation.

KP119X integrates functions and protections of Current Limit and Leading Edge Blanking, Under Voltage Lockout (UVLO), Cycle-by-cycle Current Limiting (OCP), Thermal Foldback (OTP), Output Over Voltage Protection (OVP), LED Open/Short Protection, etc.

TYPICAL APPLICATION CIRCUIT

