

APFC Buck LED Power Switch

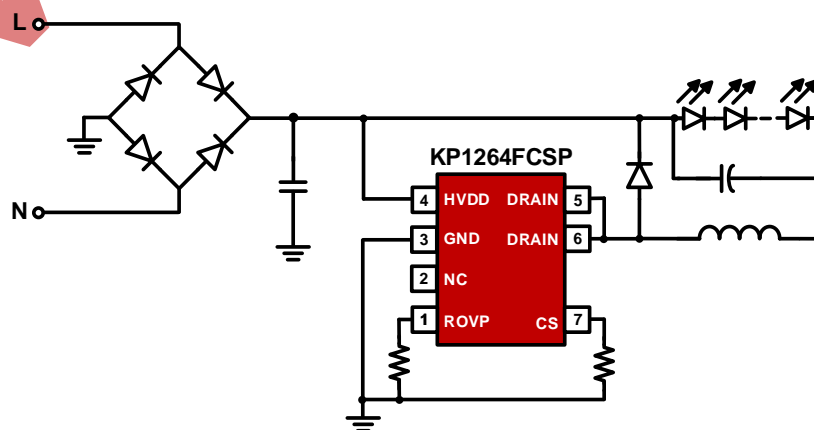
FEATURES

- Active Power Factor Correction
- High PF Value >0.9
- Built-in Power Supply Circuit
- Internal 500V Power MOSFET
- No VDD, COMP Capacitor Design
- QR Operation Mode for High Efficiency
- High Output Current Accuracy $\pm 3\%$
- Ultra-low Operation Current
- Good Line and Load Regulation
- Built-in Protections:
 - Programmable Output Over Voltage Protection (OVP)
 - Cycle by Cycle Current Limit (OCP)
 - Leading Edge Blanking (LEB)
 - LED Open and Short Protection
 - Thermal Fold-back (OTP)
- Package Available with SOP-7

APPLICATIONS

- LED Driver

TYPICAL APPLICATION CIRCUIT



GENERAL DESCRIPTION

KP1264FCSPA is a family of highly integrated Constant Current LED power switch. The IC utilizes Quasi-Resonant (QR) Buck topology with active PFC control for high PF, low THD, and high efficiency.

KP1264FCSPA integrates internal demagnetization detection circuit and 500V power MOSFET with high voltage startup, which eliminates auxiliary winding for power supply and demagnetization and simplifies the design and production cost of the system. The IC adopts accurate current sensing, close loop constant current control to achieve high precision CC control with excellent line and load regulation.

KP1264FCSPA integrates functions and protections of Cycle-by-cycle Current Limiting (OCP), Thermal Fold-back (OTP), Output Over Voltage Protection (OVP), LED Open/Short Protection, etc.