

Non-isolated Buck-Boost LED Power Switch

FEATURES

- Buck-Boost Topology Support High LED Output Voltage
- Integrated with 650V MOSFET
- $\pm 4\%$ CC Regulation
- Very Low VDD Operation Current
- No Auxiliary Winding Needed
- Built-in Thermal Fold-back
- Built-in Charging Circuit for Fast Start-Up
- Built-in AC Line CC Compensation
- Build in Protections:
 - LED Open/Short Protection
 - On-Chip Thermal Fold-back (OTP)
 - Cycle-by-Cycle Current Limiting
 - Leading Edge Blanking (LEB)
 - Pin Floating Protection
 - VDD UVLO
- Available with SOP-8 and SOT23-3L Package

GENERAL DESCRIPTION

KP1032A/KP1032B is a highly integrated power switch with Buck-Boost constant current (CC) control for LED lighting applications.

KP1032A/KP1032B combines a 650V power MOSFET switch with a power controller in one chip. The IC also integrates high voltage startup/IC supply circuit and a novel transformer demagnetization circuit, which eliminates transformer auxiliary winding.

KP1032A/KP1032B integrates functions and protections of Under Voltage Lockout (UVLO), Cycle-by-cycle Current Limiting (OCP), Thermal Fold-back (OTP), LED Open/Short Protection, etc.

APPLICATIONS

- Bulb
- Spot Light

TYPICAL APPLICATION CIRCUIT

