

Highly Integrated Offline Current Mode PWM Power Switch

FEATURES

- Integrated with 650V Power MOSFET
- $\pm 1\%$ CV Regulation
- Less than 75mW Standby Power
- Fixed 65KHz Switching Frequency
- Green Mode and Burst Mode Control
- Very Low Startup and Operation Current
- Built-in Frequency Shuffling to Reduce EMI
- Built-in Current Mode Control with Internal Slope Compensation
- Built-in Protections with Auto Recovery:
 - VDD Under Voltage Lockout (UVLO)
 - VDD Over Voltage Protection (OVP)
 - On-Chip Thermal Shutdown (OTP)
 - Cycle-by-Cycle Current Limiting
 - Over Load Protection (OLP)
 - CS Pin Float Protection
- Available with SOP-7 Package

GENERAL DESCRIPTION

KP2010 is a high performance current mode PWM power switch for offline flyback converter applications.

In KP2010, PWM switching frequency with shuffling is fixed to 65KHz and is trimmed to tight range. The IC has built-in green and burst mode control for light and zero loadings, which can achieve less than 75mW standby power.

KP2010 integrates functions and protections of Under Voltage Lockout (UVLO), VDD over Voltage Protection (VDD OVP), Cycle-by-cycle Current Limiting (OCP), Over Load Protection (OLP), On-Chip Thermal Shutdown (OTP), Soft Start, VDD Clamping and CS Pin Float Protection, etc.

APPLICATIONS

- Power Adapter
- General Switch Mode Power Supply

TYPICAL APPLICATION CIRCUIT

