

HV-Startup Offline Current Mode PWM Power Switch

FEATURES

- Integrated with HV-Startup Circuit
- Integrated with 650V Power MOSFET
- $\pm 1\%$ CV Regulation
- Less than 50mW 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)
 - Leading Edge Blank (LEB)
- Available with DIP-7 Package

GENERAL DESCRIPTION

KP226X is a high performance current mode PWM power switch for offline flyback converter applications; the internal HV-startup circuit is designed to reduce system startup time and standby power loss.

KP226X is designed with a high accurate 65KHz PWM switching clock, which also has the frequency jitter function for better EMC performance. The IC has built-in green and burst mode control for light and zero loadings, which can achieve less than 50mW standby power loss.

KP226X 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 and VDD Clamping, etc.

APPLICATIONS

- Power Adapter
- General Switch Mode Power Supply

TYPICAL APPLICATION CIRCUIT

