

Offline Current Mode PWM Controller with BOP and Output OVP

FEATURES

- Support DCM and CCM Operation
- $\pm 1\%$ 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)
 - Input Brownout Protection (Brownout)
 - Output Over Voltage Protection (OVP)
 - On-Chip Thermal Shutdown (OTP)
 - Cycle-by-Cycle Current Limiting
 - Over Load Protection (OLP)
 - Leading Edge Blanking (LEB)
 - CS Pin Float Protection
- Available with SOT23-6L Package

GENERAL DESCRIPTION

KP201B is a high performance current mode PWM controller for offline flyback converter applications. It supports DCM and CCM operation.

In KP201B, PWM switching frequency with shuffling is fixed to 65 KHz and is trimmed to tight range. The IC has built-in green and burst mode control for light and no load condition, which meet 6th energy star requirement and achieve less than 75mW standby power.

KP201B integrates functions and protections of Under Voltage Lockout (UVLO), VDD over Voltage Protection (VDD OVP), Input Brownout Protection (Brownout), Programmable Output Over Voltage Protection (OVP), On-Chip Thermal Shutdown (OTP), Cycle-by-cycle Current Limiting (OCP), Over Load Protection (OLP), Soft Start, VDD clamping and CS Pin Float Protection, etc.

APPLICATIONS

- Chargers and Adapter
- Motor Driver Power Supply

TYPICAL APPLICATION CIRCUIT

