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High Performance Low Cost Off-line PWM Switcher

FEATURES

- **Low Cost Buck and Buck/Boost Solution**
- **Low Standby Power <30mW**
- **Integrated with 600V MOSFET**
- **Output Power Up to 10W**
- **Peak Current Mode ON/OFF Control**
- **Typical 9V, 12V, 18V and 24V Output**
- **61kHz Oscillator with Frequency Jitter**
- **Good Line and Load Regulation with Typical Configuration**
- **Built in 5ms Typical Soft Start**
- **Build in Protection with Auto Recovery:**
  - **Over Load Protection (OLP)**
  - **Over Circuit Protection (OCP)**
  - **VIN Under Voltage Lockout (UVLO)**
  - **Cycle by Cycle Current Limit**
  - **Over Temperature Protection (OTP)**
- **Available with SOP-7 and DIP-7 Package**

APPLICATIONS

- **Small Appliance**
- **Industry Controls**

GENERAL DESCRIPTION

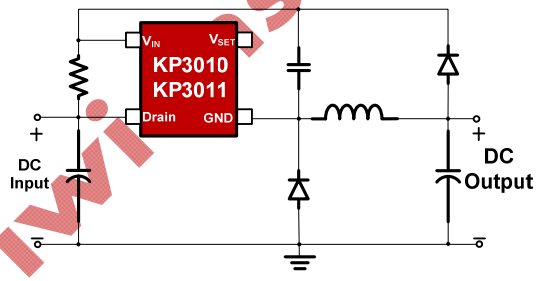
KP301X family is a high performance Switch Mode Power Supply Switcher for low power off-line application with lowest components number in typical buck and Buck/Boost solution.

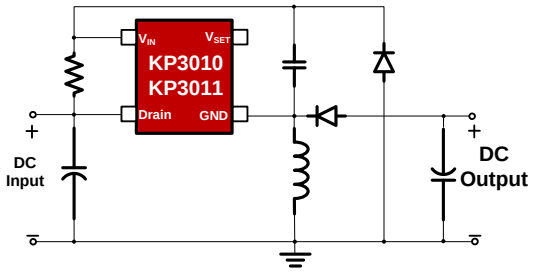
This family have built-in high break down voltage MOSFET to withstand high surge input.

Unlike conventional PWM control, there's no fixed internal clock in KP301X family to trigger the GATE driver. A Peak Current Mode ON/OFF Control block is integrated to simplify circuit design and achieve good line and load regulation. The peak current limit changes according to the real load condition for low standby power in no load.

KP301X family integrates protections of Under Voltage Lockout (UVLO), Cycle-by-cycle Current Limiting, Over Load Protection (OLP), Over Current Protection (OCP) and Over Temperature Protection (OTP) with Auto Recovery Mode.

TYPICAL APPLICATION CIRCUIT





TYPICAL OUPUT CURRENT TABLE(1)		
Part Number	**DCM (2)**	**CCM (3)**
KP3010	**180mA**	**288mA**
KP3011	**265mA**	**400mA**

Note:

1. The typical output current is for the non-isolated buck converter and the maximum output power capability is determined by the output voltage.
2. DCM for higher efficiency;
3. CCM for higher output Power.