

Low Standby-Power Off-line PWM converters

General Description

The AP8012H consists of a Pulse Width Modulator (PWM) controller and a power MOSFET, specifically designed for a high performance off-line converter with minimal external components. AP8012H offers complete protection coverage with automatic self-recovery feature including Cycle-by-Cycle current limiting (OCP), over temperature protection (OTP), under-voltage Lockout protection(UVLO), VDD over-voltage protection(OVP), and soft-start. Burst mode operation and device very low consumption helps to meet the standby energy saving regulations. Excellent EMI performance is achieved with frequency modulation. The device consists of a high voltage start-up circuit in order to reduce the system set-up time. The device provides an advanced platform well suited for low standby-power and cost-effective flyback converters.

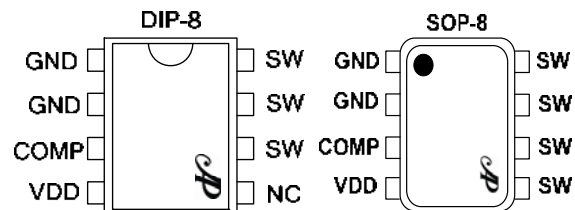
Features

- Integrated 800V avalanche-rugged power MOSFET
- 85V to 265V wide range AC voltage input
- Semi enclosed steady output power 6W(DIP-8)@85~265V_{AC}
- Frequency modulation for low EMI
- Burst-mode Operation
- Built-in Soft Start
- Internal HV Start-up Circuit
- Excellent Protection :
 - ◇ Over Current Protection (OCP)
 - ◇ Over Temperature Protection (OTP)
 - ◇ VDD over-voltage protection (OVP)

Applications

- Electromagnetic Oven power supplies
- Small household application power supplies (Coffee machine, Electric kettle, etc.)

Package/Order Information



| Order codes | Package |
|----------------|---------|
| AP8012HNEC-T1E | DIP-8 |
| AP8012HNEC-T1L | DIP-8 |
| AP8012HSEC-R1 | SOP-8 |

Typical Application

