

# 深圳市芯创世纪电子有限公司 ME8107

# **Current Mode PWM Controller With Frequency Shuffling**

### **General Description**

ME8107 integrates a PWM controller and high voltage power MOSFET of 600V/2A or 700V/2A or 650V/2A. ME8107 has the features of very low standby power (<100mW) when AC power above 220Vac. and cost effective offline flyback converter applications in 18W range. ME8107 offers complete protection coverage with automatic self-recovery feature including Cycle-by-Cycle current limiting (OCP), CS short protection, over load protection (OLP), and VDD under voltage lockout (UVLO) and latch feature including over voltage (fixed or protection(OVP). adjustable) Excellent EMI performance is achieved with frequency shuffling technique together with soft switching control at the totem pole gate drive output. Tone energy at below 20KHz is minimized in the design and audio noise is eliminated during operation.

# Typical Application

Offline AC/DC flyback converter for

- Switching AC/DC Power battery charge
- Digital cameras and camcorder adapter
- Set-top box power
- Auxiliary power supply for PC and server
- Open-frame SMPS

#### **Features**

- Power on Soft Start Reducing MOSFET V<sub>DS</sub> Stress
- •Frequency shuffling for EMI
- Audio Noise Free Operation
- Extended Burst Mode Control For Improved
  Efficiency and Minimum Standby Power Design
- •Internal Synchronized Slope Compensation
- •Fixed 65KHz Switching Frequency
- Good protection coverage with auto self-recovery
  - \* VDD Under Voltage Lockout with Hysteresis (UVLO)
  - \* Cycle-by-cycle over current threshold setting for constant output power limiting over universal input voltage range
  - \* Overload Protection (OLP) with auto-recovery
  - \* VDD Over voltage Protection(OVP)
  - \* Adjustable OVP through external Zener
  - \* CS floating protection with auto-recovery
  - \* CS short protection with auto-recovery

#### **Package**

- 8-pin DIP8
- 7-pin DIP7