

## DESCRIPTION

MT9570 is a high PF, low THD, non-isolated, Boost, constant voltage driver, which is mainly used in medium or high power LED lighting applications.

With internal THD compensation circuit, MT9570 provides excellent PF and THD characteristics under light load conditions. Thanks to enhanced EA, the output voltage is insusceptible to the load, excellent dynamic performance is realized.

MT9570 supports Boost topology and supports Critical Conduction Mode (CRM) and Discontinuous Conduction Mode (DCM). It has high conversion efficiency and good EMI performance.

MT9570 has various protection features, such as output over-voltage protection (OVP), FB short circuit protection (SCP), cycle-by-cycle over-current protection (OCP), VCC under voltage lock out (UVLO) / clamp protection, and over-temperature protection (OTP), to improve system efficiency.

## FEATURES

- Wide input voltage range
- High PF, low THD
- No noise during startup/load switching
- Enhanced EA, excellent dynamic performance
- Strong driving capability ( $\pm 1A$ )
- Integrates chip enable pin, low standby power consumption
- Supports CRM and DCM, stable output voltage under light load
- High internal reference voltage accuracy:  $\pm 2\%$
- Built-in various protection features:
  - Output over-voltage protection
  - FB short circuit protection
  - Cycle-by-cycle over-current protection
  - Over-temperature protection
  - VCC UVLO / clamp
- Available in SOP8 package

## Applications

- High power PFC application

## TYPICAL APPLICATION CIRCUIT

