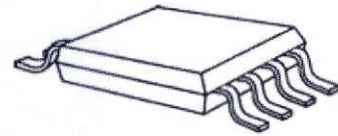


## Features

- Universal AC input from 80V<sub>AC</sub> to 265V<sub>AC</sub>
- Efficiency > 90% when V<sub>AC</sub> = 110V, I<sub>LED</sub> = 350mA, 6-LED load
- Setting current accuracy within ±5%
- Driving external MOSFET current up to 3 Amperes
- Hysteretic PFM improves efficiency in light load conditions
- Full protection: Thermal/UVLO/OVP/LED Open/Short Circuit
- Available in MSOP-8L package

### Mini Small Outline Package

**GMS: MSOP-8L-118mil**

## Product Description

MBI6902 is a high efficiency step-down AC/DC controller designed to deliver constant current. The input voltage range of MBI6902 is universal from 80V<sub>AC</sub> to 265V<sub>AC</sub>. It is featured by a hysteretic PFM control scheme which enhances the efficiency in light load conditions. MBI6902 regulates the output current within ±5% of the preset current by well controlling the external MOSFET. In addition, LED dimming control can be implemented by connecting the output of a photocoupler to the DIM pin. MBI6902 is also characteristic of protecting the controller from fault conditions, inclusive of under voltage lock-out (UVLO) and over voltage protection (OVP). To ensure system reliability, thermal protection (TP) is built-in to prevent IC from over temperature (155°C) by turning off the external MOSFET. Once the temperature drops below 125°C, the external MOSFET will resume working. MBI6902 is available in MSOP-8L package.

## Applications

- T-8 CFL Replacement LED Solution
- E26/E27 Light Bulb Alternative LED Solution
- General Illuminations
- Power Supply for Light Panel