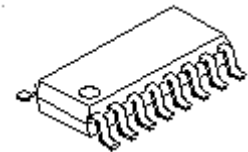


**AC/DC TRIAC Dimmable LED Driver****Features**

- Constant current LED driver
- Support TRIAC dimmer with maximum dimmer compatibility
- Built-in active power factor correction
- Support 85V<sub>ac</sub> to 265V<sub>ac</sub> universal input voltage range
- Support up to 28W output
- Full protection: thermal/UVLO/soft-start/LED open-/short- circuit
- Available in SOP-16 package

**Small Outline Package**

GD: SOP16L-150-1.27

**Product Description**

MBI6803 is an AC-DC converter designed to deliver constant current with a TRIAC dimmer present at the AC-line input. With the built-in active power factor correction circuit, MBI6803 dynamically adjusts its input current according to the main voltage waveform to maintain high power factor when no dimmer is applied. MBI6803 is optimized for applications based on flyback converter with output power up to 28 Watt. A built-in bleeder control circuit minimizes the efficiency loss by adaptively adjusting the bleeder current while extends the conduction angle of the TRIAC dimmer. It is designed to operate in boundary conduction mode (BCM) or discontinuous conduction mode (DCM). In addition, the embedded soft-start function eliminates the inrush current during the power-on period. MBI6803 also features under voltage lock-out (UVLO), over-temperature protection, LED open-circuit protection and LED short-circuit protection to protect IC from being damaged under any faulted condition.

**Applications**

- E26/E27 light bulb LED alternative solutions
- PAR light LED alternative solutions