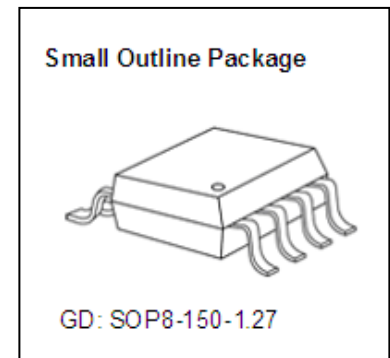


**Two Step Dimmable Isolated AC/DC LED Driver****Features**

- Constant current LED driver
- Primary side regulation without photocoupler
- Built-in active power factor correction
- Quasi-resonant switching
- Universal input voltage range
- Support up to 50W output
- Full protections: Thermal shutdown
  - $V_{DD}$  over voltage (OVP)
  - Under voltage lock-out (UVLO)
  - LED open-/short- circuit
  - Current sensing resistor open/short-circuit
  - Compensating capacitor open/short-circuit
- Available in SOP-8 package
- 2 steps dimmable by input voltage toggling

**Product Description**

MBI6804 is a universal input AC-DC converter designed to deliver constant current with primary side regulation (PSR) control. The built-in active power factor correction circuit maintains high power factor over a wide input voltage range. MBI6804 is optimized for applications of output power up to 50 Watt, and the efficiency is enhanced with quasi-resonant switching technique. MBI6804 is also featured with under voltage lock-out (UVLO), over temperature protection (OTP), LED open-circuit protection and LED short-circuit protection to protect the converter from being damaged accidentally. MBI6804 is specifically designed with current sensing resistor short protection to prevent MOSFET over-current and transformer saturation caused by manufacturing defect such as solder splash or abnormal operation such as accidental short-circuit by earthquake.

**Applications**

- T8 light tube LED alternative solutions
- E26/E27 light bulb LED alternative solutions
- PAR light LED alternative solutions
- External LED power supply