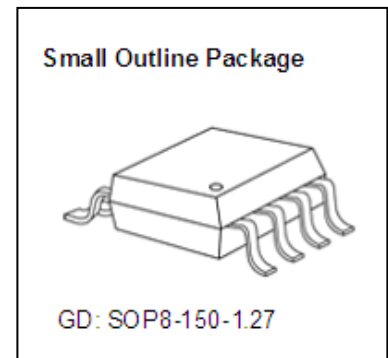


**High Power Factor AC/DC LED Driver****Features**

- Constant current LED driver
- Voltage step down design
- Built-in active power factor correction
- Quasi-resonant switching
- Universal input voltage range
- Full protection: 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

**Product Description**

MBI6912 is a universal input AC-DC converter designed to deliver constant current with step down control. The built-in active power factor correction circuit maintains high power factor over a wide input voltage range. MBI6912 is optimized for applications of output power up to 50 Watt, and the efficiency is enhanced with quasi-resonant switching technique. MBI6912 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. MBI6912 is specifically designed with current sensing resistor short protection to prevent MOSFET over-current 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
- Interior LED power module