

**60V, Step-Down, 1A LED Driver****Features**

- Max. 1A constant output current
- 97% efficiency @ input voltage 48V, loading condition 350mA, 12 LEDs in series
- 9~60V wide input voltage range
- Hysteretic PFM eliminates external compensation design
- Settable output current
- Integrated power switch with 0.35ohm Rds(on)
- Full protections: UVLO/Start-Up/OCP/ Thermal/ LED Open-/ LED Short- Circuited
- Only 5 external components required

Product Description

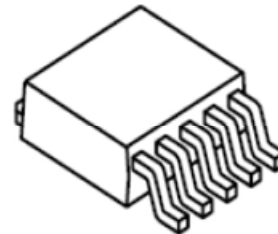
MBI6661 is a high efficiency, constant current and step-down DC/DC converter. It is designed to deliver constant current to light up high power LED with only 5 external components. By hysteretic PFM control scheme, MBI6661 omits the external compensation design.

The output current of MBI6661 can be programmed by an external resistor and LED dimming can be controlled via pulse width modulation (PWM) through DIM pin. In addition, the start-up function limits the inrush current while the power is on. MBI6661 also features under voltage lock out (UVLO), over temperature protection (OTP), and over current protection (OCP) to guard the system to be robust and keep the IC away from being damaged resulting from LED open-circuited, short-circuited and other abnormal events.

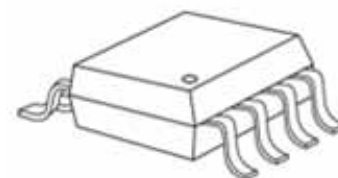
Additionally, to ensure the system reliability, MBI6661 builds thermal protection (TP) function inside. This function protects IC from overheating in various application conditions. MBI6661 provides thermal-enhanced packages as well to handle power dissipation more efficiently. MBI6661 is available in TO-252, SOP-8 packages.

Applications

- Signage and Decorative LED Lighting
- Automotive LED Lighting
- High Power LED Lighting
- Constant Current Source

Surface Mount Device

GSD: TO-252-5L

Small Outline Package

GD: SOP8L-150-1.27