

GHI Industries
1 Watt LED Driver

The LED Driver was designed as a way of driving the high current LED's on the market today specifically the 1W Star LEDs. The easiest way to light this type of LED is with just a properly selected resistor and regulated supply voltage. However if you attempt to drive these LED's in this manner outside of the lab and in real world applications, you will shorten the life span of the LED and cause poor performance. Using an accurate current driver will deliver longer lasting and higher performance LED light. The driver was designed around the MAX16800 chip from Maxim and has excellent current accuracy regardless of the input voltage fluctuations. Below are the specifications.

Input Voltage 6.5 – 40V
Current output 300 mA
Output Current accuracy +/-3.5%

Output Short Circuit Protected.
Thermal shutdown Protected.

Note about input voltage:
The input voltage needs to be at least 1.5 volts greater than the sum of all the LED voltage drops in the series.

Photos on next page:

