

Product Overview

A 650mA Boost Driver designed to power the Cree MP-L or the LumiLEDs Luxeon S. This product allows easy integration of the Cree MP-L or Luxeon S into existing applications where more light is required. The small yet efficient driver will fit into areas where space is at a premium. A 0-10V dimming input, compatible with many commercially available 0-10V dimmers, provides an easy method to control the brightness of the LEDs. A 5K potentiometer connected across the CTRL and REF line can also be used.

Features

Input Voltage 12-20V_{DC}

Typical Characteristics

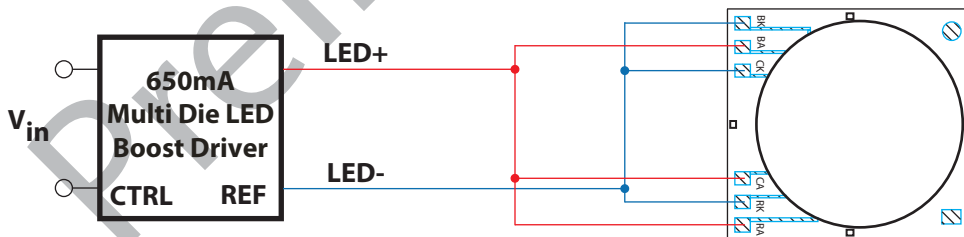
Efficiency 90-94%
 Power Consumption. ~18W
 Max Output Voltage 32V
 Max V_{in} for full dimming. 17V for MP-L, 19V for Luxeon S
 Output tolerance (within specified temp. range) ±10%

Notes

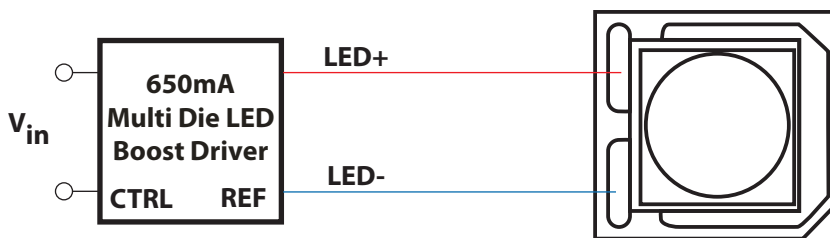
- No polarity protection, do not connect backwards
- Do not short circuit the output
- 32V limit on the output to protect open circuit conditions
- Connect all LED channels in parallel when using the Cree MP-L

Application Figures

650mA Boost Driver powering the Cree MP-L. The three LED strings are wired in parallel.



650mA Boost Driver powering the Luxeon S.



©2011 LUXdrive, A Division of LEDdynamics, Inc. www.LUXdrive.com.
 Specifications subject to change without notice. April, 2011 - Rev 1.0