

***General Illumination LED Drivers  
for Solid State Lighting***



# Solid State Lighting • Solid State Lighting

Microsemi's unique combination of advanced analog mixed signal capabilities, proven light management and power conversion platforms as well as advanced color and digital control IP, allows us to offer optimally designed LED drivers and systems that are crucial to achieve the long life and value promised by LED manufacturers.

Our solutions are supported by a dedicated and robust supply chain and development team which enable a shorter time to market for our customers. Our module customers also have direct access to Microsemi advanced technology expertise and can directly communicate their unique requirements for their next generation products.

Microsemi's first SSL product family aims to provide high-performance and high-efficiency power conversion in a very compact package and is the first in a series of planned solutions.

## LXMG221W™

The LXMG221W-0700034-D0 is a high-efficiency (90%), compact LED lighting driver module designed for next generation LED-lighting in worldwide residential, commercial and industrial applications. It supports a universal AC input ( $90V_{AC}$  to  $305V_{AC}$ , 47Hz or 63Hz) and drives one output string of LED's at  $700mA$  up to  $48V_{DC}$  ( $34W$  typical). Enclosed in a compact IP66 rated plastic package, the LXMG221W-0700034-D0 meets UL1310 class 2 for SSL (File E337545), meets FCC Class B and is SELV compliant.

### Features

- Universal input AC voltage range:  $90V_{AC}$  -  $305V_{AC}$ , 47Hz to 63Hz
- Wide power output: Up to  $34W$
- Multiple dimming options:
  - $0V$  to  $10V$  and potentiometer
  - Can also operate without dimmer
- Single string configurations for a wide variety of loads
  - Current:  $1 \times 700mA \pm 5\%$
  - Voltage:  $14$  to  $48V$  (internally limited to  $56V$ )
- Compact IP66 package plastic case with thru-hole for easier mounting
- Automatic shutdown protection and re-start in case of power loss and over-case temperature events
- Offers versatility and flexibility while maintaining high efficiency
- Designed for a wide variety of worldwide LED lighting fixtures

