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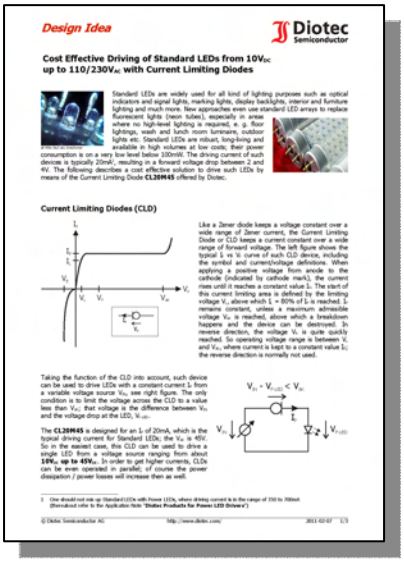
Press Release

031e 08 April 2011

Design Idea and Application Note for Driving LED Circuits

Cost and Space Saving Solutions for Standard and High Power LEDs

Diotec Semiconductor AG proudly presents a new Design Idea and an Application Note about LED driving circuits. The Design Idea is intended for Standard LEDs where the driving currents are typically around 20 milliAmps. The Application Note deals with High Power LEDs, which are more and more replacing halogen and compact fluorescent lamps in the market place. These LEDs require a much higher driving current in the range of 350 to 700 milliAmps.

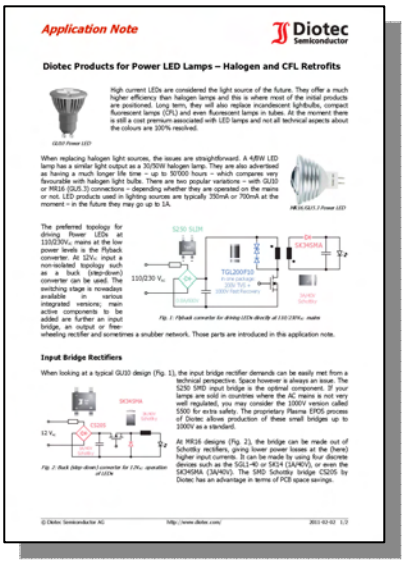

Design Idea

Diotec Semiconductor

Cost Effective Driving of Standard LEDs from 10V$_{DC}$ up to 110/230V$_{AC}$ with Current Limiting Diodes

Current Limiting Diodes (CLD)

Standard LEDs are mainly used for indication purposes, but new designs also show LED array solutions for replacement of neon light tubes. For all these applications, Diotec introduces a so called “Current Limiting Diode” or CLD, which can be used to drive standard LEDs, with only few additional components, directly from the 110 Volts / 230 Volts mains. The Design Idea is now available for download at http://www.diotec.com/service/files/cost-effective-led-driving.pdf.


Application Note

Diotec Semiconductor

Diotec Products for Power LED Lamps – Halogen and CFL Retrofits

Input Bridge Rectifiers

Power LEDs are driven usually by means of a flyback converter. Halogen and compact fluorescent lamp retrofits are very space critical, therefore the converter board must be as small as possible to help obtain the necessary compact size. Diotec offers three key components for such circuits, all of which help the designer to save a lot of board space. The Application Note is available for download at http://www.diotec.com/service/files/products-for-power-led-driving.pdf.

<Text file (.txt) and high resolution picture see http://www.diotec.com/service/presse/ >

Diotec Semiconductor AG, *with headquarters in Germany and four worldwide factories, produces and sells Semiconductors such as Diodes, Rectifiers, Diacs and Transistors and has more than 30 years of experience.*

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