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LED drivers optimise LED lighting performance

LED drivers from Diodes Incorporated meet stringent voltage, size and efficiency requirements of LED lighting

By leveraging its in-depth experience of analog IC design, Diodes Incorporated has become recognised as a technology leader and innovator in LED driver products. As a certified partner of OSRAM's 'LED Light for you network', the company is working closely with the world's leading manufacturers of LED lighting component technologies to develop LED driving solutions that are optimised in terms of current handling, input voltage range, package size and power efficiency.

A good example of the benefits gained from LLFY network collaboration will be demonstrated by Diodes at Light + Building 2010. At the event, a successful reference design for MR16-compatible LED lamps will be shown in a contemporary track lighting scenario.

The design sees Diodes (ZXLD1366 LED driver control circuit) partnering with OSRAM (Golden Dragon® high performance LED), Ledil (optical lense) and FujiPoly (thermal potting) to arrive at a solution that reduces component count and cost of manufacture and which achieves dramatic improvements in lamp efficiency and reliability.

Diodes Incorporated's LED driving solutions are well suited to tackle a wide range of applications. These include: general illumination, architectural lighting, automotive lighting, safety and security, domestic illumination, commercial illumination, flashlights and backlighting. The company's family of boost and buck LED drivers are not only recognized for their high efficiency and simplicity; they are also renowned for their incredible versatility.

A wide range of design support tools are available on the Diodes' website including: Design and application notes, calculators, simulators and spice models. For further information visit www.diodes.com

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