

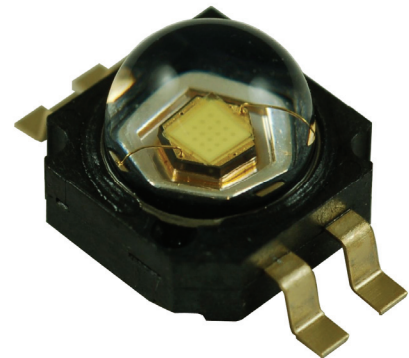
Press Information

November 15, 2007

Philips Lumileds launches new LUXEON[®] K2 with TFFC, the industry's first 1A LED

New LUXEON K2 with TFFC is the first of a new class of products that will deliver more light and higher efficacy, and lower the cost of light.

San Jose, CA — Philips Lumileds today announced its new cool-white LUXEON K2 with TFFC LED. Chip and packaging advancements by the company enable extended capabilities that deliver maximum performance in any environment. LUXEON K2 with TFFC is the only LED designed, binned and tested for standard operation at 1000 mA and capable of being driven at 1500 mA. Thin Film Flip Chip (TFFC) technology contributes to overall light output improvement, excellent optical performance and improved thermal capability. New packaging advancements improve what is already the industry's most rugged and capable package and deliver the lowest thermal resistance, 5.5° C/W, of any power LED; lower thermal resistance allows the LED to be driven at higher currents and lowers thermal management engineering efforts and costs. Light output performance from a LUXEON K2 with TFFC part binned and tested for 160 lumens minimum and 1A drive current can easily exceed 220 lumens at higher drive currents. LUXEON K2 with TFFC leads all LEDs in real-world applications and is designed and manufactured to operate reliably and effectively in the harshest environments.



LUXEON[®] K2 with TFFC

At its rated drive current, LUXEON K2 with TFFC operates at only 66% of its maximum power rating and delivers unprecedented performance for a single 1mm² chip. More than two dozen LED drivers available from Future Lighting Solutions are already capable of providing 1000 mA and even higher currents that will allow engineers to take advantage of LUXEON K2 with TFFC's high drive capability.

Today, virtually every other power LED manufacturer has introduced products at 350 mA but none of these devices can be driven reliably at higher currents without sacrificing lumen maintenance or causing junction temperature to exceed published maximums. None of the other LEDs can be operated at 1A for extended periods of time. In fact, even when datasheets indicate typical values at higher drive currents, they are not achievable in actual applications.

LUXEON K2 with TFFC Specifications cool-white products

Bin & Test Current	1000 mA
Maximum Current	1500 mA
Thermal Resistance	5.5° C/W
Max Junction Temperature	150° C

Complete specifications are available in the LUXEON K2 with TFFC datasheet (DS60).

The advantages of LUXEON K2 with TFFC's high drive current ratings to the lighting community are many. For applications like security lighting, roadway lighting, automotive lighting archtainment or spot lighting where maximum light and robustness are required while still delivering improved efficiency, LUXEON K2 with TFFC can be implemented to engineer the most cost effective solutions that consider all costs including the thermal management system, drive electronics, optics and LED count. The ability for designers to increase current without increasing thermal management size or cost to the same degree ultimately results in a lower cost of light.

“Customers are already making the move to 1000 mA drive currents and higher to take advantage of higher light output and improved efficacies,” said Erik Milz, Product Manager at Philips Lumileds. “Incorporating TFFC technology and package improvements gives us the best LED for the most demanding applications and environments such as automotive, signaling, general lighting and architectural applications. Using a single chip allows for the smallest optical source size making it easier to design optics such as reflectors, diffusers and lenses that are essential for most applications.”

LUXEON K2 with TFFC offers industry leading lifetime and reliability. This information is detailed in Philips Lumileds graphical reliability and lumen maintenance tools available on the company's web site and in Reliability Datasheets. LUXEON K2 with TFFC is also compatible with much of the complementary infrastructure for electronics, optics and thermal solutions already in place for LUXEON K2 LEDs.

Availability

LUXEON K2 with TFFC in cool-white is available from Future Lighting Solutions (FLS) (www.futurelightingsolutions.com). Contact FLS for pricing and availability of specific flux bins. Philips Lumileds is preparing for volume production of neutral-white and warm-white to be followed by royal blue, blue, cyan and green. Future Lighting Solutions can also advise on appropriate driver and thermal management systems to ensure the most effective operation of LUXEON K2 with TFFC in any application, any environment.

About Philips Lumileds

Philips Lumileds is the world's leading provider of power LEDs for everyday lighting applications. The company's recent records for light output, efficacy and thermal management are direct results of the ongoing commitment to advancing solid-state lighting technology and enabling lighting solutions that are more environmentally friendly, help reduce CO₂ emissions and reduce the need for power plant expansion. Philips Lumileds' LUXEON LEDs are enabling never before possible applications in the general lighting, automotive, digital imaging, display, and signage markets. More information about the company's LUXEON® LED products and solid-state lighting technologies can be found at www.philipslumileds.com.

About Royal Philips Electronics

Royal Philips Electronics of the Netherlands (NYSE: PHG, AEX: PHI) is a global leader in healthcare, lighting and consumer lifestyle, delivering products, services and solutions through the brand promise of "sense and simplicity". Headquartered in the Netherlands, Philips employs approximately 128,000 employees in more than 60 countries worldwide. With sales of USD 34 billion (EUR 27 billion) in 2006, the company is a market leader in medical diagnostic imaging and patient monitoring systems, energy efficient lighting solutions, personal care and home appliances, as well as consumer electronics. News from Philips is located at www.philips.com/newscenter.

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