

New autoclavable TO LED with customizable caps and glass lenses

The next SCHOTT Solidur™ LED design for medical devices is available

Landshut (Germany), March 2, 2015 – The international technology group SCHOTT is introducing a third LED product design to complement its series of autoclavable light sources for use in medical instruments. The new TO LED is a High Brightness LED based on SCHOTT's hermetic TO housing footprint, making it fully autoclavable. It is ideally suited for use in medical instruments that need a sterilizable and reliable light source at the point of action as well as for UV curing devices. SCHOTT will be unveiling its innovations from March 10 to 14, 2015 at IDS trade show in Cologne (booth 11.3 B 081).

The SCHOTT TO LED boasts a fully gas-tight housing design based on inorganic, non-aging materials, making it very robust, resistant to chemicals, corrosion and pressure - even at varying temperatures. The result is a highly reliable light source, performing efficiently over a long period time: The TO LED technology has been tested to withstand more than 3.500 autoclaving cycles. Better heat management thanks to the choice of a fully inorganic design with durable materials such as glass and metal in a substantially longer life time.

“In addition to being autoclavable, the TO LED has another advantage: it can be adapted to many different applications because of our broad range package geometries and customized caps with glass optics”, says Dr. Frank Gindele, Development Manager for LED products at SCHOTT Electronic Packaging.

The TO LED can also be designed with specially adapted UV transparent glass types allowing for a high transmission of light at a low wavelength. This makes the new TO LED a perfect candidate for use in instruments using UV light. Other possible applications include dental cameras, endoscopes, laparoscopes, otoscopes and surgical equipment. It can easily be incorporated into all designs as it is available in a through-hole packaged format as well as in a SMD design.

SCHOTT offers the TO LED in accordance with customer requirements in different color temperatures, light colors, radiation profiles and optical properties such as luminous flux. Different colors and wavelengths can be combined within one LED module. Additional electronic components such as resistors or ESD protection can also be integrated into the LED module.

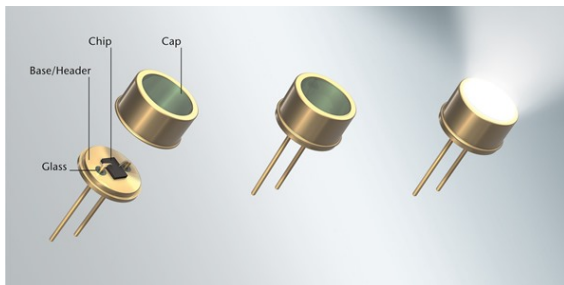


130 years of history in the area of special purpose glass and more than 70 years of experience in manufacturing hermetic seals and feedthroughs flow into the development and production of new products at SCHOTT Electronic Packaging.

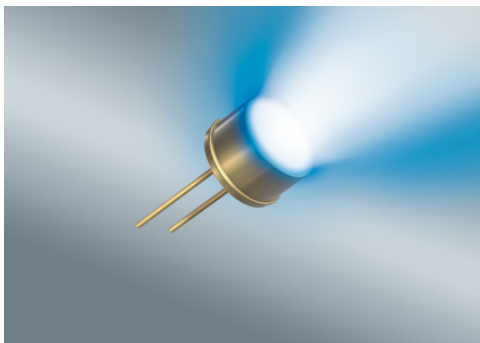
For more information:

http://www.schott.com/epackaging/english/autoclavable_and_hermetic_leds.html

Photo download link: <http://www.schott-pictures.net/presskit/278337.TOLED>



Thanks to a gas-tight housing made of purely inorganic, non-aging materials, LEDs from SCHOTT are especially robust and successfully withstand temperature changes, chemicals, corrosion and pressure. Image: SCHOTT.



SCHOTT offers a variety of customized TO housing footprints and glass optics, including lenses with UV transparent glass. Image: SCHOTT.

SCHOTT is a leading international technology group in the areas of specialty glass and glass-ceramics. The company has more than 130 years of outstanding development, materials and technology expertise and offers a broad portfolio of high-quality products and intelligent solutions. SCHOTT is an innovative enabler for many industries, including the home appliance, pharmaceutical, electronics, optics, automotive and aviation industries. SCHOTT strives to play an important part of everyone's life and is committed to innovation and sustainable success. The group maintains a global presence with production sites and sales offices in 35 countries. With its workforce of approximately 15,400 employees, sales of 1.87 billion euros were generated in fiscal year 2013/2014. The parent company, SCHOTT AG, has its headquarters in Mainz (Germany) and is solely owned by the Carl Zeiss Foundation. As a foundation company, SCHOTT assumes special responsibility for its employees, society and the environment. www.schott.com



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