

Robust LED package provides exceptional spatial uniformity, long operating lifespan...

OPTEK DEVELOPS 0.5W LED PACKAGE FOR SINGLE AND ARRAY APPLICATIONS



NEW YORK, NY (May 8, 2007) – Providing lighting design engineers with an energy-efficient, high luminance, compact solid-state light source, TT electronics OPTEK Technology has developed a 0.5W surface mount white LED package. Designated the OVS5WBCR4 Series, the device features an ultra-low profile of just 1.5mm.

“The exceptional spatial uniformity and full 120° viewing angle make this packaged LED suitable for both single use and array applications,” said Richard Saffa, vice president of OPTEK Technology’s Visible LED Business Unit. “The small size of the OVS5WBCR4 package also allows it to be specified for specialized applications in which larger devices would not be suitable and where high-power devices are not required.”

Applications for the OVS5WBCR4 Series LED package include conventional lighting, electronic signs and signals, automotive interior and exterior lighting, architectural indoor and outdoor lighting, and general illumination.

The 0.5W white LED package features a water clear lens and 120° viewing angle. Typical luminous flux is 21 lumens, with a typical on-axis intensity of 8.5cd and a typical forward voltage of 3.2V. DC forward current is 180mA, with peak pulsed forward current of 500mA. Power dissipation is 700mW and maximum rated junction temperature is 125°C. Operating temperature range is -40°C to +100°C. OPTEK also offers optional optics to suit specific applications where focused beam patterns are required.

The OVS5WBCR4 LED package measures 6mm x 6mm, with a height of 1.5mm.

The OVS5WBCR4 package is compatible with standard Sn/Pb as well as Pb-free reflow soldering processes.