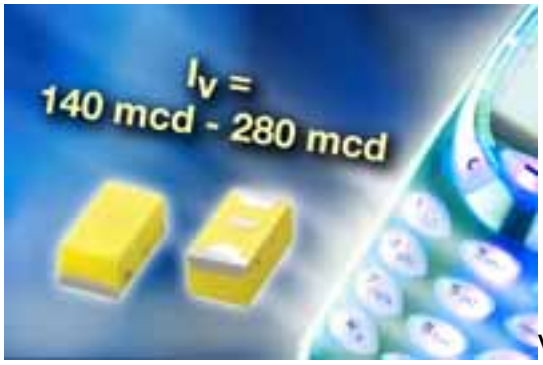
Ultrabright White SMD LEDs with 0603 Footprint



Vishay Intertechnology, Inc. released a series of ultrabright white SMD LEDs that utilize high-efficiency InGaN technology to provide desirable brightness in a compact 0603 footprint. With dimensions of 1.6 mm x 0.8 mm x 0.6 mm, the VLMW1100 series of white LEDs has been designed to enable smaller products with higher performance, greater flexibility in design, and enhanced applications. The devices offer an 80° angle of half-intensity, an extremely high luminous intensity ranging from 140 mcd to 280 mcd, and a typical color temperature of 5500K. The LEDs feature an ESD-withstand voltage up to 1 kV, in accordance with JESD22-A114-B. The EIA- and ICE-standard 0603 SMD package is leadframe-based for high reliability in harsh environments. The package is filled with a mixture of epoxy and yellow converter. The yellow converter converts the blue emission partially to yellow, which mixes with the remaining blue to produce white. Preconditioned according to JEDEC Level 2a standards, the 0603 SMD package is lead (Pb)-free and RoHS-compliant. CECC compatibility with infrared, vapor phase, and wave solder processes simplifies handling and automatic assembly. The LEDs provide cost-effective illumination for applications including backlighting in automotive dashboards, switches, and keypads; indicators and backlighting in telecommunications systems, audio and video equipment, office equipment, and indoor and outdoor message boards; and flat backlighting for LCDs, switches, and symbols in general use. Pricing for U.S. delivery is $0.25 per piece.
Vishay Intertechnology, Inc.
www.vishay.com [1]

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