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Supertex LED Driver uses closed-loop system to deliver maximum LED light performance

HV9963 Provides High LED Current Accuracy and Consistent Brightness

Supertex (Nasdaq GS: SUPX), a recognized leader in high voltage analog and mixed signal integrated circuits (ICs), today introduced the HV9963, a closed-loop LED driver IC with pulse width modulated (PWM) dimming capability designed to optimize LED performance and efficiency and extend LED life. The IC excels in DC/DC applications such as RGB or white LED backlighting, LCD TVs and monitors, and LED lamps for general lighting.

The HV9963 utilizes a closed-loop system to control the current going to the LED string, which is an active, real-time system that continuously monitors the LED current via sense resistors. The HV9963 includes a 1.0MHz transconductance amplifier with a tri-state output, which closes feedback loops in the sensing process and provides accurate current control. It can be synchronized in applications requiring multiple LED drivers to prevent the system sub-harmonic oscillations that are often associated with driving multiple driver schemes.

The HV9963 also features hiccup mode protection for both short- and open-circuit conditions, and a high PWM dimming ratio. The IC operates in a constant frequency mode for use in a variety of converter topologies such as buck, boost and SEPIC.

“The HV9963’s closed-loop system enables accurate line and load control of the LED current over its entire operating range,” states Ahmed Masood, Vice President of Marketing for Supertex. “This IC also includes controls that allow PWM dimming at very low duty cycles, resulting in a contrast ratio of up to 5,000:1.”

The HV9963 is available in a 16-lead SOIC package (HV9963NG-G). The part is RoHS compliant. Samples are available from stock. Lead-time for production quantities is 4-6 weeks ARO. Pricing is US\$0.85 each for the HV9963NG-G in 1K quantities.

About Supertex

Supertex, Inc. is a publicly held mixed signal semiconductor manufacturer, focused in high voltage analog and mixed signal products for use in the medical, LED lighting, imaging, industrial, and telecommunication industries. Supertex product, corporate and financial information is readily available at www.supertex.com.

