LED Driver Achieves High Accuracy Without High-Side Current Sensing

Supertex, Inc. introduced HV9861A, an open loop, average current mode control, LED driver integrated circuit (IC) designed to drive LEDs using a buck topology. It is suited for a variety of solid-state lighting applications, including TV and monitor backlighting, signage, decorative, and general lighting. Because of the patented, novel scheme of current control it employs, the driver IC doesn't produce a peak-to-average error, and therefore, it greatly improves the accuracy and line and load regulation of the LED current, according to the company. The IC provides typical current accuracy of +/-3 percent and requires no loop compensation or high-side current sensing because of its proprietary control scheme. The internally regulated voltage (Vdd) for HV9861A is 7.5 V.

"By utilizing Supertex's patented average-mode current sensing technology, HV9861A achieves fast and accurate LED current control in a wide variety of LED lighting applications," states Stephen Lin, Vice President of Marketing at Supertex. "The extremely accurate current control of this IC serves to prolong the lifetime of LEDs, thus making it well suited for manufacturers seeking durability and reliability in their end LED products."

HV9861A is available in SOIC-8 and SOIC-16 packages (HV9861ALG-G & HV9861ANG-G, respectively) and are pin-compatible with Supertex's HV9910B and HV9961 LED drivers. The parts are RoHS compliant. Samples are available from stock. Lead-time for production quantities for the HV9861A is 4-6 weeks ARO. Pricing is US$0.81 for the HV9861ALG-G, US$0.89 for the HV9861ANG-G, in 1K quantities.

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