Allegro MicroSystems Offers New LED Backlight Driver

Allegro MicroSystems announces a new multi-output WLED/RGB driver for backlighting LCD monitors and televisions. The A8516 is a versatile and economical LED driver IC that will enable system designers to reduce component count and overall system cost. The device integrates a boost controller to drive an external MOSFET and six internal current sink channels capable of up to 80 mA each, and channels can be combined together to achieve even higher currents.

The boost converter operates in constant frequency (programmable) current mode control. The LED sink current is set by an external R_ISET resistor and PWM dimming allows LED currents to be controlled. The A8516 provides protection against overvoltage, open or shorted LED string, and over temperature. A dual level cycle-by-cycle current limit function provides soft start and protects against overloads.

The A8516 is offered in a 24-pin TSSOP package (LP), a 24-pin SOICW package (LB), with internally fused pins for en¬hanced thermal dissipation, both with an exposed thermal pad for enhanced thermal dissipation. Both packages are lead (Pb) free, with 100% matte tin lead frame plating. The A8516ELPTR-T and A8516ELBTR-T are priced at $1.54 in quantities of 1,000.

About Allegro

Allegro MicroSystems, Inc. is a leader in developing, manufacturing and marketing high-performance power and Hall-effect sensor IC’s. Allegro’s innovative solutions serve high-growth applications within the automotive, communications, computer/office automation, consumer and industrial markets. Allegro is headquartered in Worcester, Massachusetts (USA) with design and applications centers located in North and South America, Asia, and Europe. Further information about Allegro can be found at www.allegromicro.com [1].

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