LED driver efficient for various applications

ZMD AG announces a new addition to its LED driver family, the ZSLS7025. As a global supplier of analog and mixed-signal solutions for automotive, industrial, medical, information technology and consumer applications, ZMDI introduces the ZSLS7025, a step-up (boost) converter, for high-brightness LED lighting. It is well suited for many consumer, industrial and after-market automotive applications. The ZSLS7025 is optimal for driving multiple white LEDs connected in series from a low voltage supply.

The ZSLS7025 has an application input voltage range of 6V to 100V, which supports lighting products using multi-cell batteries or regulated 12V, 24V and 48V power rails. A low-voltage feedback mechanism helps maximize the operating efficiency, and the open-circuit detection protects the application circuit. The output current is programmable via external components, and the ZSLS7025 features pulse-width modulation (PWM), linear and DC voltage dimming. With an adjustable over-voltage protection, the chip and the system operate safely even if the load is not connected. Other features include under-voltage protection and over-temperature protection.

The low supply voltage and constant output current operation make the ZSLS7025 an ideal choice for safety extra-low voltage (SELV) applications or multifaceted reflector (MR16) lamps, frequently found in residential and retail lighting applications. Other key application areas include low-voltage retrofit lighting, replacement tubes, LED backlighting, after-market automotive lighting products, low-voltage general-purpose industrial and consumer applications, as well as signage, outdoor, architectural and building lighting.
Key Features:

- Wide input range of 6 VDC to 100 VDC
- High efficiency up to 95%
- Open-circuit detection protects against high currents
- Inherently stable control scheme requires no additional loop compensation
- Small form-factor package
- Ideal for low-voltage retrofit lighting

The ZSLS7025 is supplied in a RoHS-compliant SOP-8 package, and its operating temperature range is -40°C to +85°C (-40°F to +185°F).
Samples and a complete evaluation kit are available upon request. For 2,500 pieces, the ZSLS7025 is priced at €0.62/$0.80.

ZMDI
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