Market News

Infineon multimode flyback controller improves performance and drives down power consumption in mid- to high-end LED lighting designs

Munich, Germany – March 2, 2016 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today launched a multimode flyback controller IC for LED applications. It can shorten 'time-to-light', lower component counts and reduce operational and standby power consumption. Designed to meet the performance and efficiency demands of mid-range to high-end LED designs, the IRS2982S provides a versatile controller solution that can meet the needs of a wide variety of interior, outdoor, office and industrial lighting schemes.

The IRS2982S incorporates a 600 V high-voltage start-up cell that delivers a fast 'time-to-light' of less than 0.5 s. At the same time, it eliminates the need for external components for voltage division. Configurable Critical Conduction Mode (CrCM) and Discontinuous Current Mode (DCM) operation ensure compatibility with a wide range of application requirements. They make the device suitable for dimming LED converter designs across the full current range. The key application of the IRS2982S is the isolated flyback with CV (constant voltage) mode which opens up design flexibility in other topologies, such as non-isolated flyback with CC/CV, buck, boost, and SEPIC (single ended primary inductor converter).

Designed to keep power consumption to a minimum, the IRS2982S features a burst mode capability that ensures ultra-low standby power. The device operates from a wide input voltage range of 85 VAC to 305 VAC and incorporates over-voltage and over-current protection as standard. An optimized single-stage PFC/flyback design ensures a power factor of higher than 0.9 and a low THD of below 20 percent.

Availability

Volume production of the Infineon IRS2982S is already underway and a 50 W flyback evaluation board is available for designers looking to rapidly evaluate and test the IC in their LED applications. Further information is available at www.infineon.com/offline-led-driver.

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