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ISSI Multichannel LED Driver for Automotive Stop/Tail lights

Six Channel Linear LED Driver with adjustable brightness levels for RCL, CHMSL applications

MILPITAS, Calif., February 13, 2017 -- Integrated Silicon Solution, Inc., a leader in advanced memory and analog IC solutions, announced its latest LED driver for automotive rear lighting application. The IS32LT3181 is specifically designed for use in the regulation and control of LED-based rear combination lamps (RCL), Center Head Mounted Stop Light (CHMSL) and other exterior automotive light applications. The highly integrated LED driver reduces system complexity and improves reliability of automotive LED light assemblies. The IS32LT3181 consists of six linear programmable constant current sources; a single external resistor is all that is required to adjust all six LED channel currents from 10 to 75mA. An integrated pulse width modulation (PWM) control scheme is used for selecting between two brightness levels – the brightest for STOP (PWM disabled) and a less bright setting (PWM enabled) for standard TAIL illumination.

The IS32LT3181 supports an optional external PMOS FET for stabilizing the LED voltage and improve thermal power dissipation. This helps distribute the thermals when the voltage across the LED loads must be accurately maintained for minimal device power dissipation. The device also integrates a programmable UVLO to disable Fault reporting during device power up. Multiple IS32LT3181's can be daisy chained and their Faults tied together to provide system level fault operation and reporting such as one fail, all fail. The IS32LT3181 also integrates thermal shutdown to protect the IC under any worst case thermal conditions. In addition, slew rates are controlled so as to minimize EMI.

By reducing part count and offering more features compared to the discrete designs that are normally used, the IS32LT3181 enables automotive manufacturers to expand the use of safety-enhancing LED lighting systems. Typical applications for this device include rear combination lamps, daytime running lights, fog lights, and center high-mounted stop lamp arrays.

"The IS32LT3181 is the follow on to the eight channel linear LED driver IS32LT3180, "said Ven Shan, ISSI's vice president of analog products. "The new device adds key functions such as programmable UVLO, slew rate control for improved EMI and robust protections that customers desire to meet the stringent automotive requirements."

The device is AECQ100 qualified meeting the stringent Automotive qualification requirements.

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Packaging and Pricing

The IS32LT3181 is offered in a thermally enhanced eTSSOP-16 package. Pricing for these devices is $0.69 per unit in 10,000 unit quantities. Samples and volume production quantities can be ordered today, through ISSI's global sales team and worldwide distribution partners.

About Integrated Silicon Solution, Inc.

ISSI is a fabless semiconductor company that designs and markets high performance integrated circuits for the following key markets: (i) automotive, (ii) communications, (iii) industrial, medical, and military, and (iv) digital consumer. The Company's primary products are high speed and low power SRAM and low, medium, and high density DRAM. The Company also designs and markets NOR flash products and high performance analog and mixed signal integrated circuits. ISSI is headquartered in Silicon Valley with worldwide offices in Taiwan, Japan, Singapore, China, Europe, Hong Kong, India, and Korea. Visit our web site at http://www.issi.com/

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