



INTEGRATED SILICON SOLUTION INC

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ISSI Debuts AEC-Q100 Certified LED Driver for Automotive Lighting
Enables sophisticated tail light control with simple programming for LED brightness levels

MILPITAS, Calif., December. 15, 2015 -- Integrated Silicon Solution, Inc., a leader in advanced memory and analog IC solutions, announced it has launched an Automotive Electronics Council (AEC) Q100-certified LED drive controller. The AEC-Q100 certification was developed to provide automotive manufacturers and suppliers with a set of industry-wide methods and procedures designed to assist in obtaining the best, most robust device for the application. AEC-Q100 certified IC products are subject to extensive reliability stress tests over the wide temperature range of -40 to +125 degree C. Several thousand samples of the IC must successfully withstand the stress tests for an extended period of time, in order to be certified. Achieving this certification exemplifies ISSI's commitment to providing high-performance, high-quality products for the automotive industry.

"The market for automotive lighting systems continues to expand, fueled by vehicle safety and government regulations," said Ven Shan, ISSI's vice president of analog products. "The launch of the IS32LT3180 reaffirms our commitment to expanding our analog portfolio to reach new automotive markets and customers."

The IS32LT3180 is specifically designed for use in the regulation and control of LED-based rear combination lamps and exterior automotive light applications. The highly integrated LED driver reduces system complexity and improves reliability of LED tail and stop light assemblies. By reducing part count and offering more features than discrete design approaches, the IS32LT3180 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 IS32LT3180 consists of eight linear programmable constant current sources; a single external resistor is all that is required to adjust the LED current from 10 to 75mA. A pulse width modulation (PWM) control scheme is used for selecting between two brightness levels – the brightest for stop and a less bright setting for standard tail illumination. IS32LT3180 also supports an optional external PMOS FET for stabilizing the LED voltage and to improve power dissipation. The device also integrates



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Protection features such as open and short LED Fault detection and reporting and thermal rollback to increase the tail light longevity and reliability.

Packaging and Pricing

The IS32LT3180 is offered in a thermally enhanced eTSSOP-16 package. Pricing for these devices is \$0.80 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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