Avago Technologies Adds Cyan 1-Watt LEDs with High Light Output to High-Power Portfolio for Traffic Signals and Signage

November 9, 2010

New Devices Provide Energy-Efficient Performance in Sturdy, Small-Footprint Packages

MUNICH, Nov 09, 2010 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced cyan-colored high-power LEDs optimized for traffic signals, here at the Electronica 2010 trade fair. The new ASMT-JC11 and ASMT-AC00 1-Watt LEDs offer high lumens output and high energy efficiency in robust, small footprint packages that boost design flexibility. This combination of features is ideal for traffic signals, and the devices also effectively address sign backlighting and architectural, commercial and decorative lighting applications.

The new LEDs address space constraints in applications with one of the industry's smallest footprints of 5 mm by 4 mm by 1.85 mm for the ASMT-JC11 device's 6-leaded small outline package (SOP). Both devices can withstand maximum current of up to 500 mA to provide high flux output performance of 58 lumens at 350 mA. The high flux output results in more efficient designs that use fewer LEDs to achieve an application's required lumens.

"Our new cyan 1-Watt LEDs position Avago to address the fast-moving transition from traffic signals using incandescent bulbs to more efficient, durable signals based on high-power LEDs," said Francis Khor, director of marketing for the Optoelectronics Product Division at Avago. "The ASMT-JC11 and ASMT-AC00 LEDs offer leading light output performance in small packages with industrial-strength reliability."

Both new LEDs feature an exposed thermal pad for efficient heat dissipation and low thermal resistance of 10° C per watt, delivering better reliability over their operating life. High maximum allowable junction temperatures of 150° C for the ASMT-JC11 device and 135° C for ASMT-AC00 device enable the LEDs to be driven in stringent operating conditions, providing flexibility and reliability to lighting designs. The devices offer a best-in-class Electrostatic Discharge (ESD) resistance of 16 kV, making them insensitive to ESD. As a result, special ESD protection equipment is not required to handle the parts during installation, thereby reducing production costs. The LEDs have an electrically neutral heat sink pad that allows them to be configured in an array using a common metal substrate without fear of electrical shorting, thus simplifying thermal design.

Avago is exhibiting the ASMT-JC11 and ASMT-AC00 LEDs along with a wide range of its isolation, fiber optics, motion control and other LED products for the industrial and automotive markets at Electronica 2010 in Hall A4 booth 458 at the New Munich Trade Fair Centre from November 9-12.

Additional ASMT-JC11/AC00 Product Features

- Wide viewing angle of 165 degrees for ASMT-JC11 and 140 degrees for ASMT-AC00 for good color and light output uniformity
- Heat- resistant silicone encapsulation for improved reliability over operating life
- Compatible with reflow soldering processes for lower design costs
- Moisture sensitivity: MSL 1 for ASMT-JC11 and MSL 2a for ASMT-AC00
- ASMT-AC00 device available in 2-leaded package also with exposed pad design
- Lead-free and RoHS-compliant

U.S. Pricing and Availability

Pricing for the ASMT-JC11 and ASMT-AC00 LEDs begins at under $2.00 each in 1,000 pieces. Samples and production quantities are available now through Avago's direct sales channel and worldwide distribution partners.

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back nearly 50 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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