



Press Release

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New avalanche photodiodes offer high sensitivities for red and green light

First Sensor presents the Series 8r silicon avalanche photodiodes (APDs) with high sensitivities in the red and green wavelength range. The APDs feature a flat gain curve where the internal amplification rises slowly with the applied reverse bias voltage. Therefore, the Series 8r allows for easy and accurate adjustments of high gain factors. The new photodiodes are ideal for applications which demand fast rise times and low capacitance.

The Series 8r provides APD chips with active areas of different sizes. The devices are available in leadless ceramic-carrier SMD packages or hermetically sealed TO housings. The very flat SMD packages can be equipped with different band-pass filters on request. Further, First Sensor offers custom avalanche photodiodes which can be adapted to specific customer requirements with respect to sensitivity, gain, speed or capacitance.

Important features of the new Series 8r APDs:

- High sensitivity for red and green light
- Flat gain curve
- Fast rise time and low capacitance
- SMD package or hermetically sealed TO housing

Typical applications of First Sensor's new Series 8r avalanche photodiodes for red and green light include laser distance meters (LDM), laser rangefinders (LRF), high speed photometry as well as fiber optical communication.

**About First Sensor**

First Sensor is a leading supplier of sensor solutions in the Medical, Industrial, Mobility, and Electronic Engineering & Manufacturing Services fields. First Sensor develops and manufactures high-quality, customer-specific sensor solutions for the detection of light, radiation, pressure, flow, level and acceleration. The company produces in-house and along the value adding-chain from component to system level. In 2012, First Sensor achieved annual sales of €112 million. Employing 700 people, the company is represented at 14 locations around the world.

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