

### New Product Line

## Superluminescence Diodes from Arima



The design of a superluminescence diode is equivalent to a laser diode without a resonator. Its radiation is based on an amplified spontaneous emission and offers the brightness of laser diodes combined with the low coherence length of LEDs. This equals a larger optical bandwidth of the emitted radiation.

Similar to edge-emitting laser diodes, SLEDs have a p-n junction and are operated under forward bias. Unlike edge emitters, SLEDs do not have a resonator; thus, a standing wave cannot form. This leads to the aforementioned spontaneous amplified emission.

Arima Lasers now also manufactures SLEDs at 670 nm and 830 nm with an output power of up to 10 mW. These diodes, which are assembled in the proven 5.6 mm TO housing, are available at LASER COMPONENTS. The products are successfully used in optical coherence tomography, fiber sensor technology, optical measurement technology, and as illumination sources for imaging methods in medical technology.

### More Information

<http://www.lasercomponents.com/de-en/product/super-luminescence-diodes/>

### Trade Shows

**Anga Com 2015**, Jun, 09 - 11, 2015, Messe Köln, Germany, **Stand 10.2/J35**  
**Sensors Expo & Conference 2015**, Jun 9-11, 2015, Long Beach Convention Center, CA, **Booth 924**  
**LASER. World of Photonics 2015**, Jun, 22 - 25, 2015, Messe München, Germany, **Booth B3.303**

### The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 170 employees worldwide.