

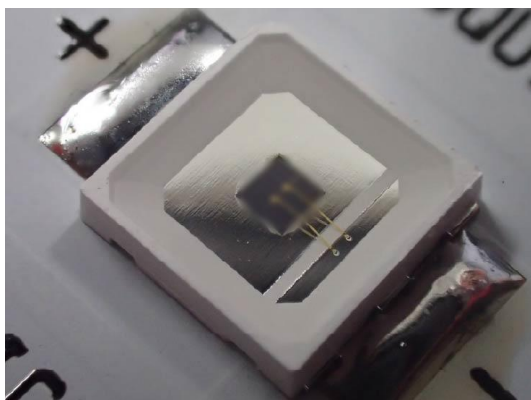
## **DOWA Launches World's Top Class High Power SMD**

DOWA ELECTRONICS MATERIALS CO., LTD. (14-1, Sotokanda 4-Chome, Chiyoda-ku, Tokyo; Capital: 1 billion yen; President: SUZUKI Takehiko; hereinafter referred to as "DOWA"), a subsidiary of DOWA HOLDINGS CO., LTD. (same location; Capital: 36.4 billion yen; President: SEKIGUCHI Akira), has launched sales of the world's top class SMD<sup>\*1</sup> (surface mountable device) in the peak wavelength range of 1,040-1,900 nm made with its high efficiency SWIR (Short-Wavelength-Infrared) <sup>\*2</sup> LEDs. DOWA aims to expand its business in the rapidly growing machine vision<sup>\*3</sup> and healthcare markets.

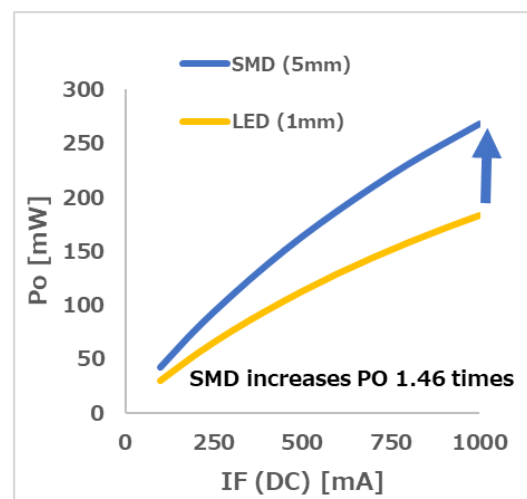
DOWA is the top manufacturer of SWIR LEDs and InGaAs PD<sup>\*4</sup> with the world's largest production capacity and track record. With the addition of SMDs to its product offerings which are in high demand in the machine vision and healthcare markets, DOWA is now able to respond to a wider range of customers.

Compared to the LEDs, radiant power output of DOWA's SMD is higher by 46%<sup>\*5</sup> at the 1,300 nm wavelength range used for semiconductor wafer inspection and by 36% at the 1,460 nm water absorption wavelength range utilized in food analysis. In addition to the current 5 mm square version, DOWA will soon introduce a 3 mm square SMD. DOWA's 5 mm square high power SMD will be showcased at the LASER World of PHOTONICS 2025, to be held from July 24th (Tue) to July 27th (Fri), 2025, in Munich, Germany.

DOWA will continue to strive to advance and broaden its SWIR technologies by improving its product performance and expanding its product offerings to meet evolving market needs.



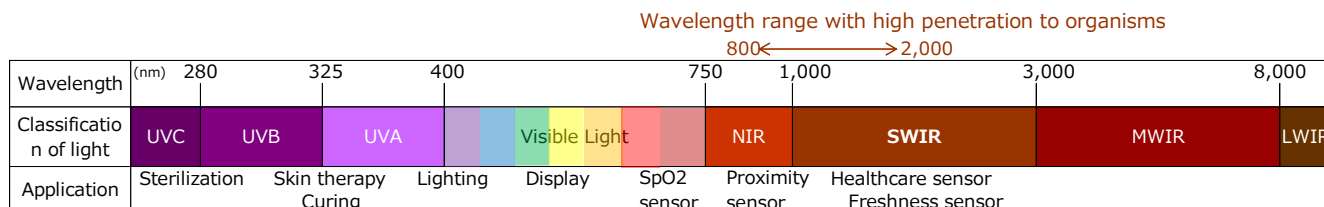
DOWA's SMD (5 mm square)



Bare die Po vs SMD Po (1,300 nm)

\*1: Packaged device made of LED die mounted on substrate and encapsulated with resin, SMD makes it easier for users to assemble and incorporate in the product design.

\*2: The wavelength range of SWIR



\*3: Technology to analyze images captured by camera for highly accurate automatic object recognition and quality inspection. SMD has been increasingly used to achieve higher precision, higher process speed, and energy savings. SWIR (short infrared) light is used for water detection, food analysis, plastic sorting for recycling, and semiconductor substrate inspection.

\*4: Semiconductor device that receives light and turns it into electricity, whereas LED generates light from electricity input.

\*5: Driving Current is 1A with DC condition.

#### [Overview of DOWA ELECTRONICS MATERIALS CO., LTD.]

- |                         |  |
|-------------------------|--|
| 1. Head office          | 14-1, Sotokanda 4-Chome, Chiyoda-ku, Tokyo |
| 2. Founded              | May 2006                                   |
| 3. Capital              | 1.0 billion yen                            |
| 4. Representative       | SUZUKI Takehiko                            |
| 5. Shareholder          | DOWA HOLDINGS CO., LTD. 100%               |
| 6. Business description | Electronic materials and related business  |

#### Contact for inquiries

Inquiries about this release

DOWA HOLDINGS CO., LTD.

<https://hd.dowa.co.jp/en/contact/contact1.html>

Inquiries about products

DOWA ELECTRONICS MATERIALS CO., LTD. Semiconductor Business Department

<http://www.infrared-led.com/contact.html>