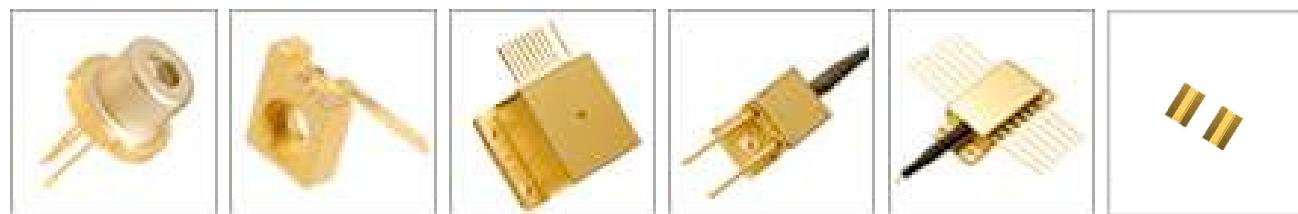


## High Power Laser Diodes of Optoenergy

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Manufacturing Technology Center  
6705-2 To Naka city Ibaraki, 311-0122 Japan

## Corporate Profile

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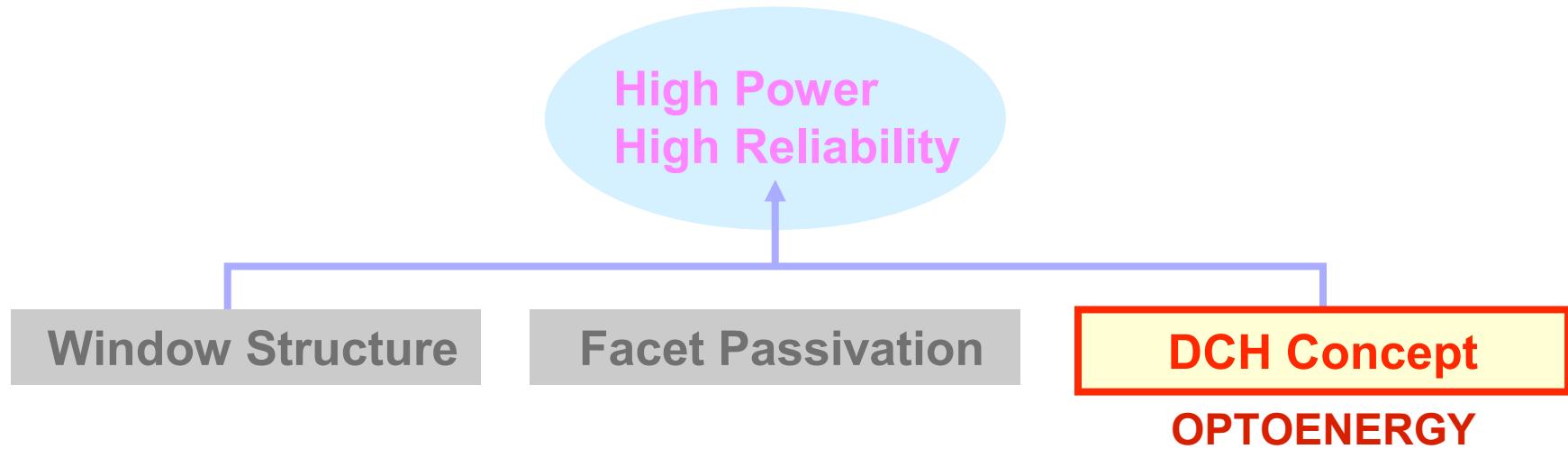
- **Foundation** **May 2, 2005**
- **Products** **High Power Laser diodes**
- **Employee** **13 Professionals and 4 Workers**
- **Manufacturing Base** **Manufacturing Technology Center**
  - **Address : 6705-2 To Naka city, Ibaraki**
  - **Clean Room : 2 x 600m<sup>2</sup> (Class : 10,000)**



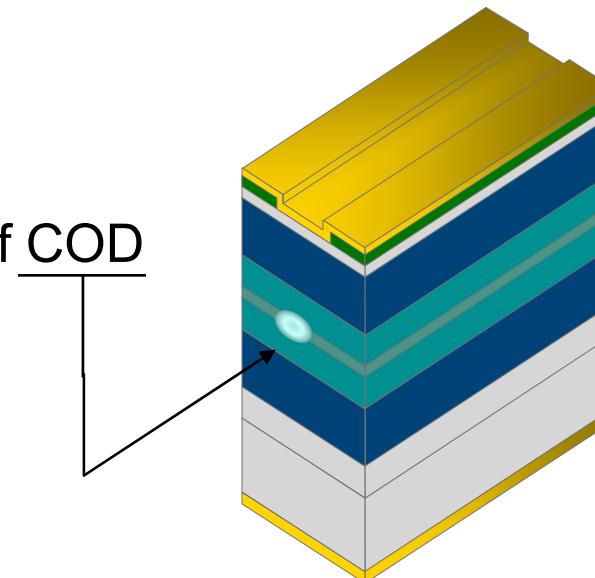
## Technologies

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# High Power Laser Diode Technologies



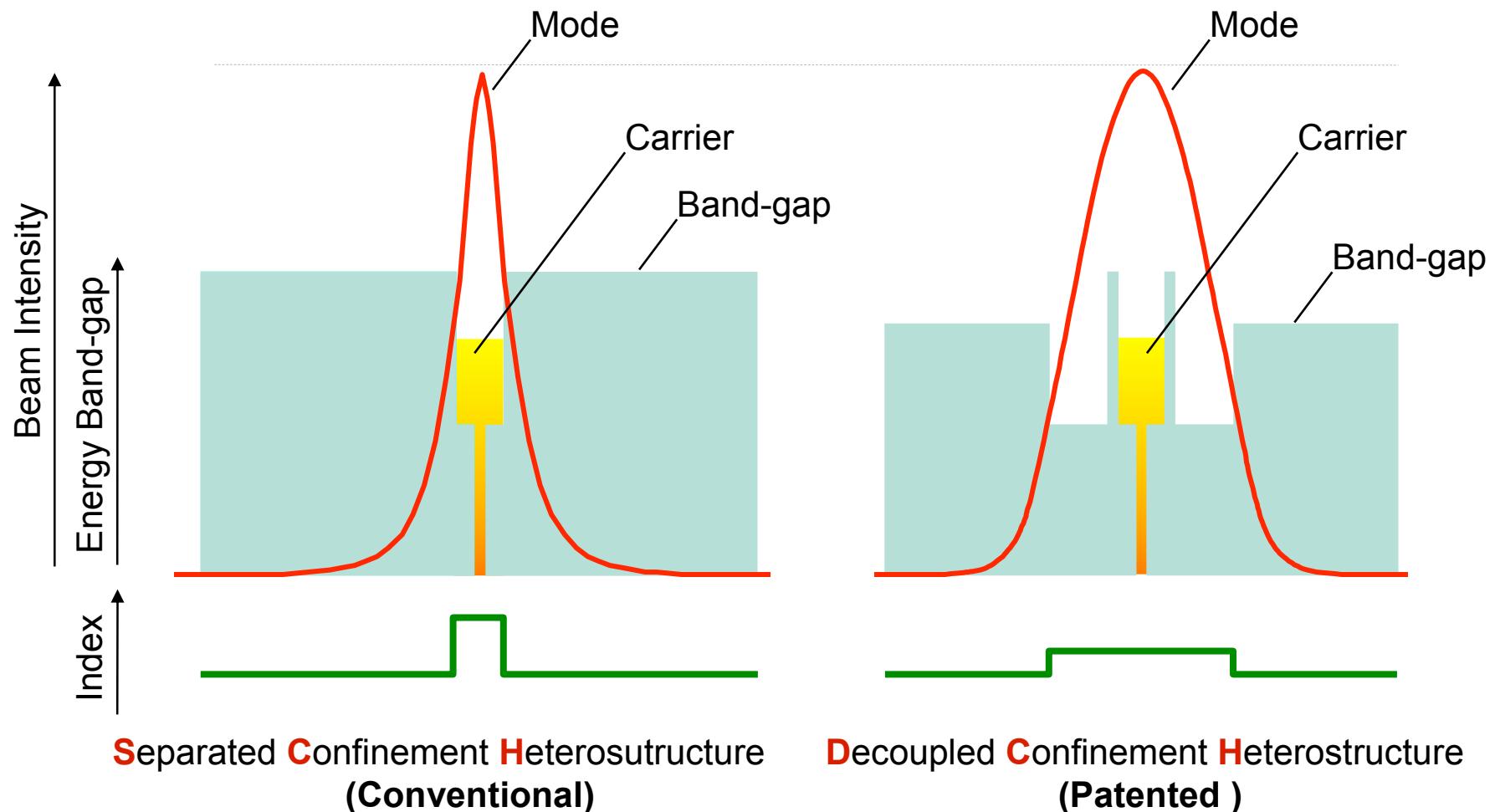
All technologies aim at suppression of COD



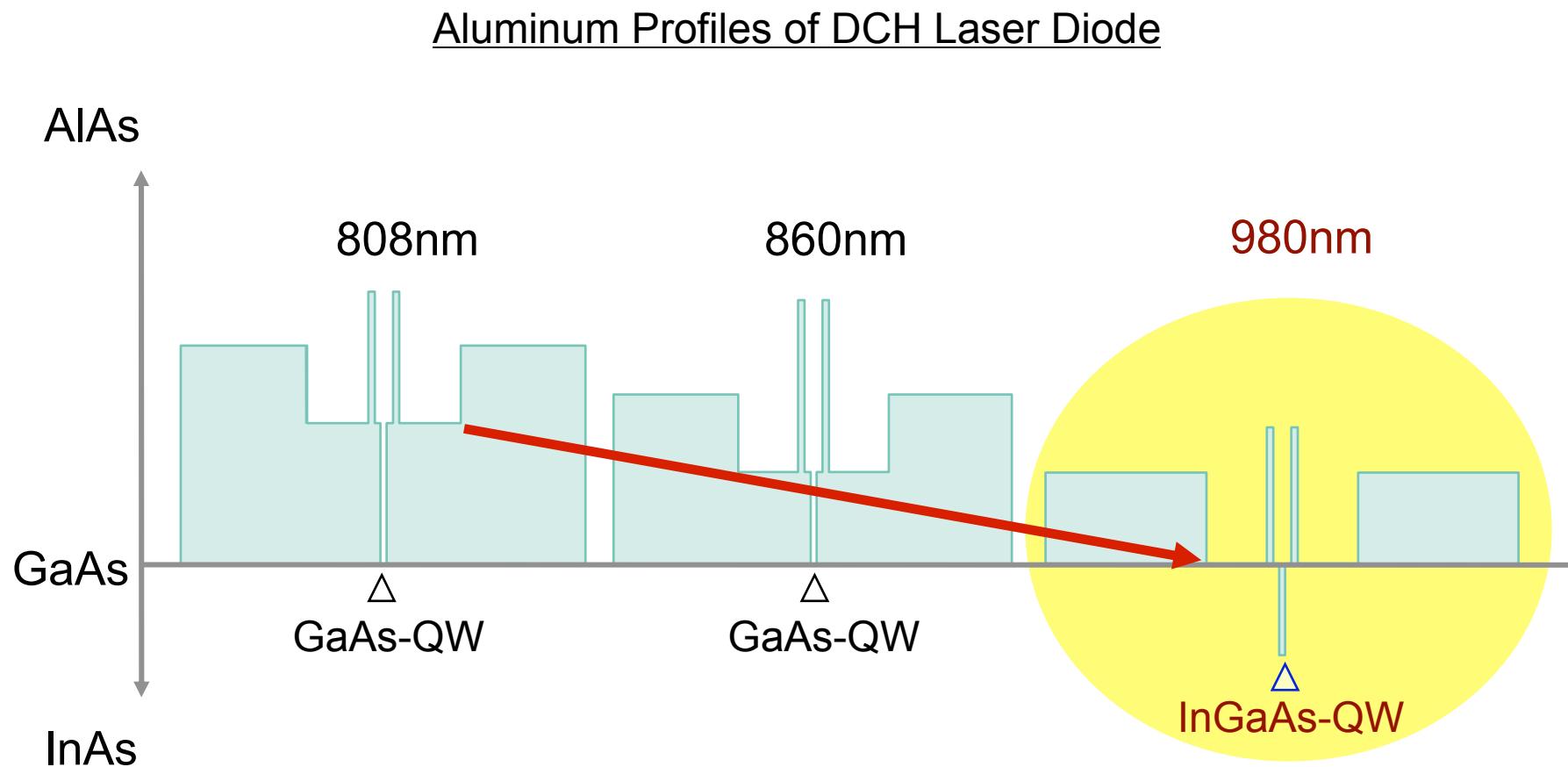
OPTOENERGY

## DCH Concept

Band-gap and Mode Profile



## Other advantage of DCH Structure



## Optoenergy Laser Diodes / SLD

■ Wavelength: 800~1100nm

■ Type: Single, Multi, SLD

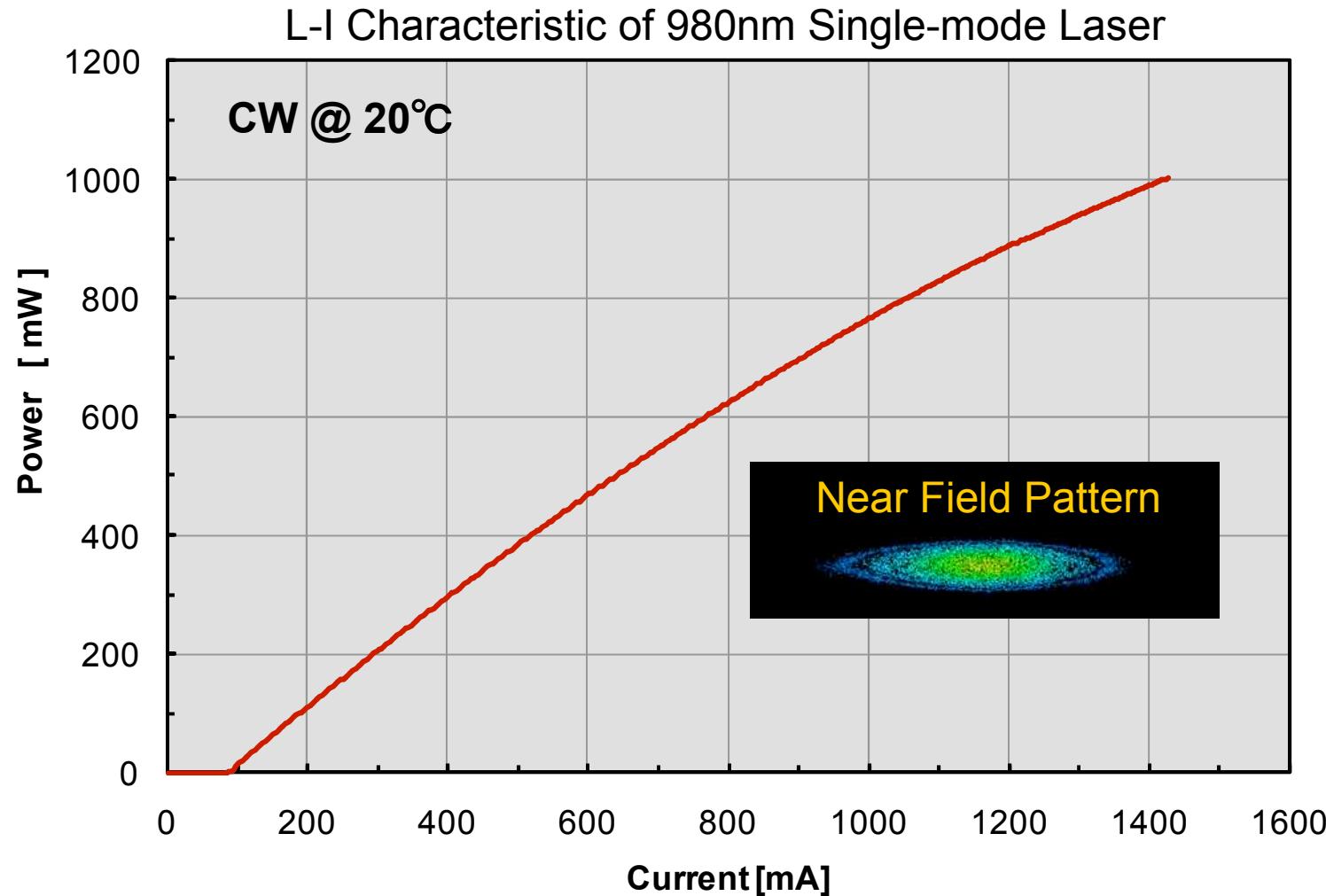
### Examples

- 980nm single mode LD
- 1064nm single mode LD
- SLD
- 808nm multi mode LD
- 915nm multi mode LD

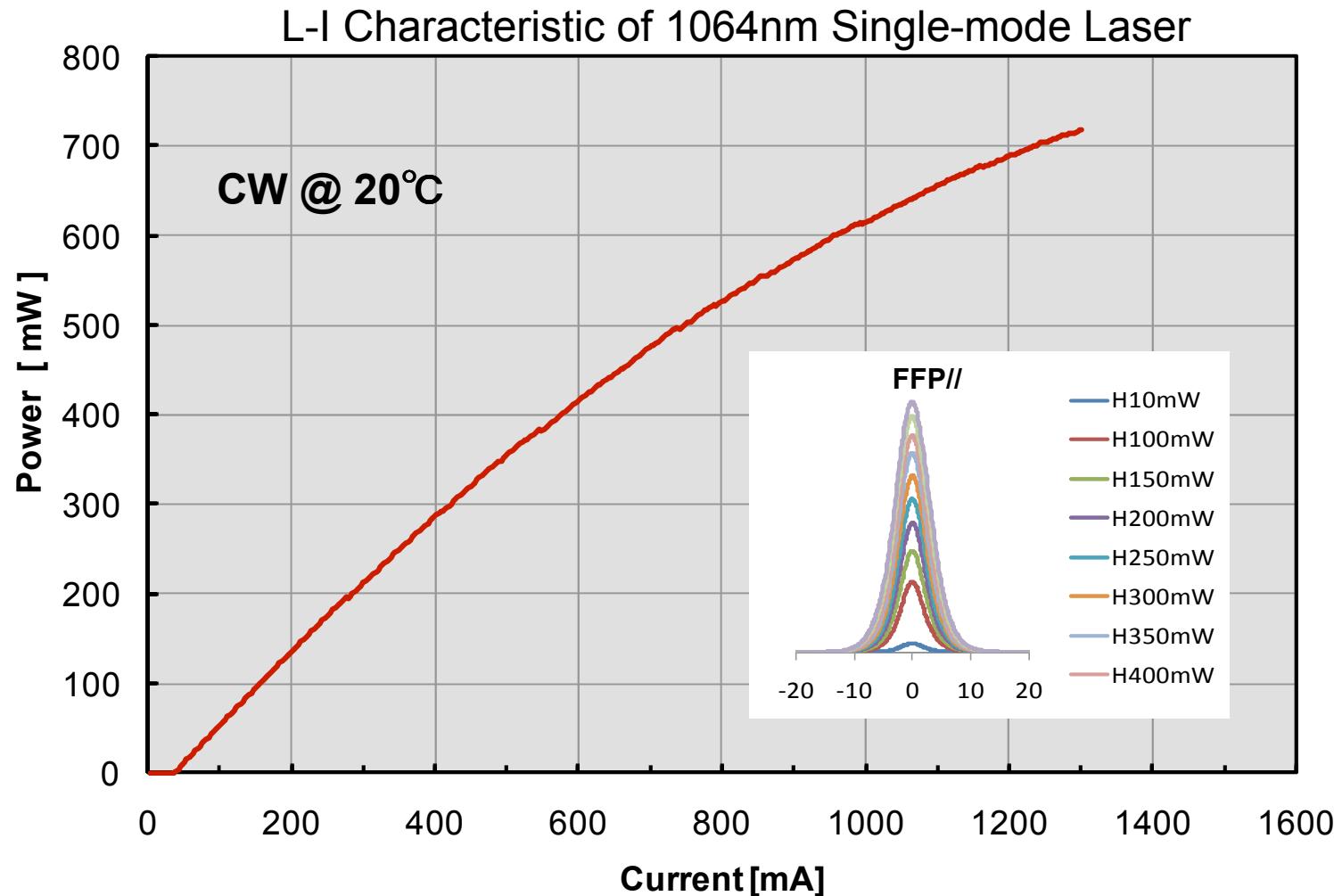
## **Single-mode Laser and Super Luminescent Diode**

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## 700mW Single-mode Laser for Telecom



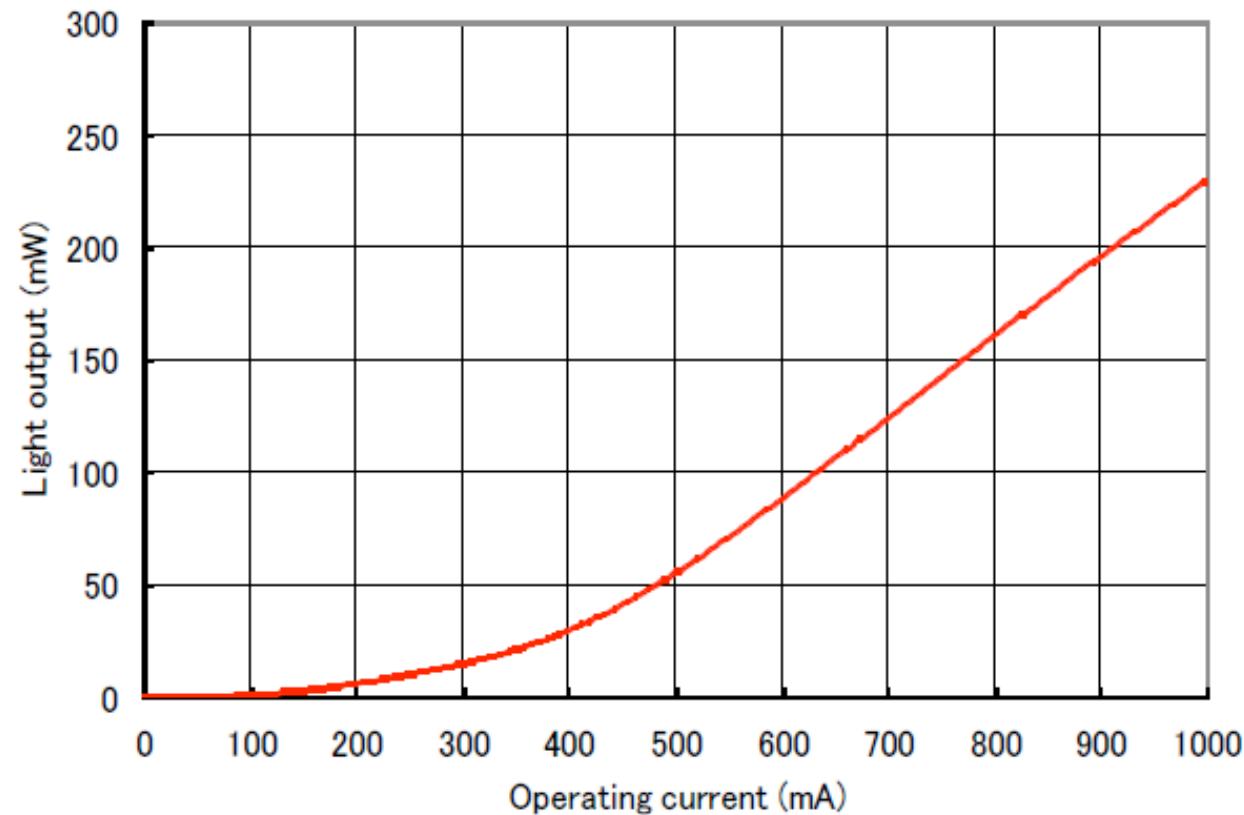
# 1064 nm Single-mode Laser Diode



# High Power Super Luminescent Diode

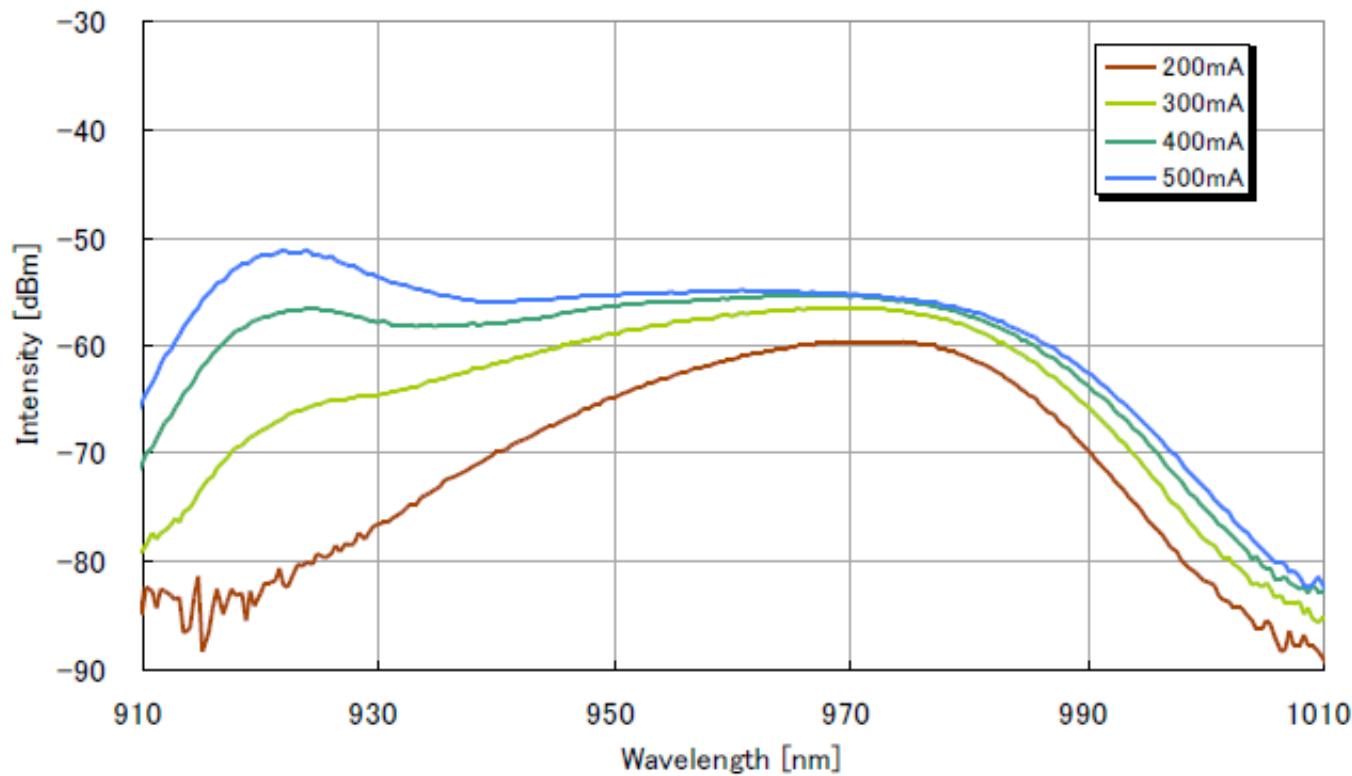
Characteristics of 980nm Super Luminescent Diode

@ 25°C



# High Power Super Luminescent Diode

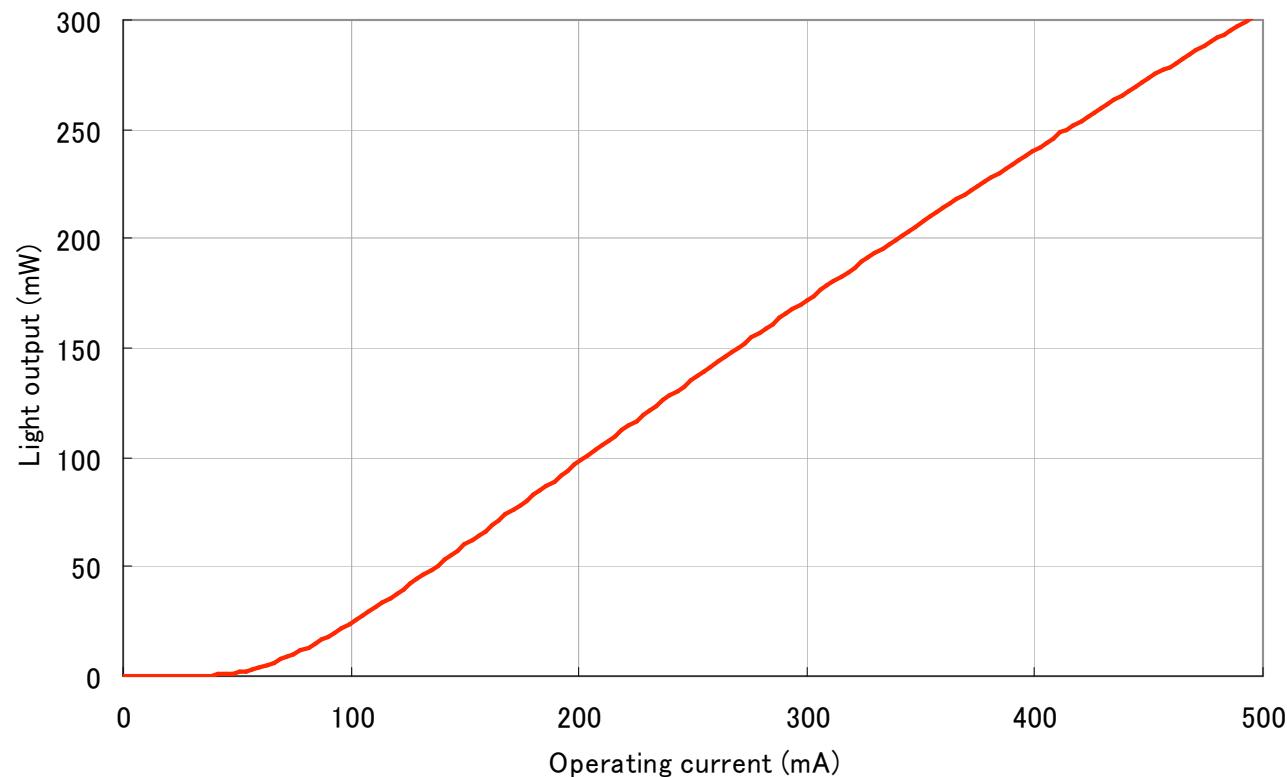
Characteristics of 980nm Super Luminescent Diode  
@ 25°C



# High Power Super Luminescent Diode

Characteristics of 1060nm Super Luminescent Diode

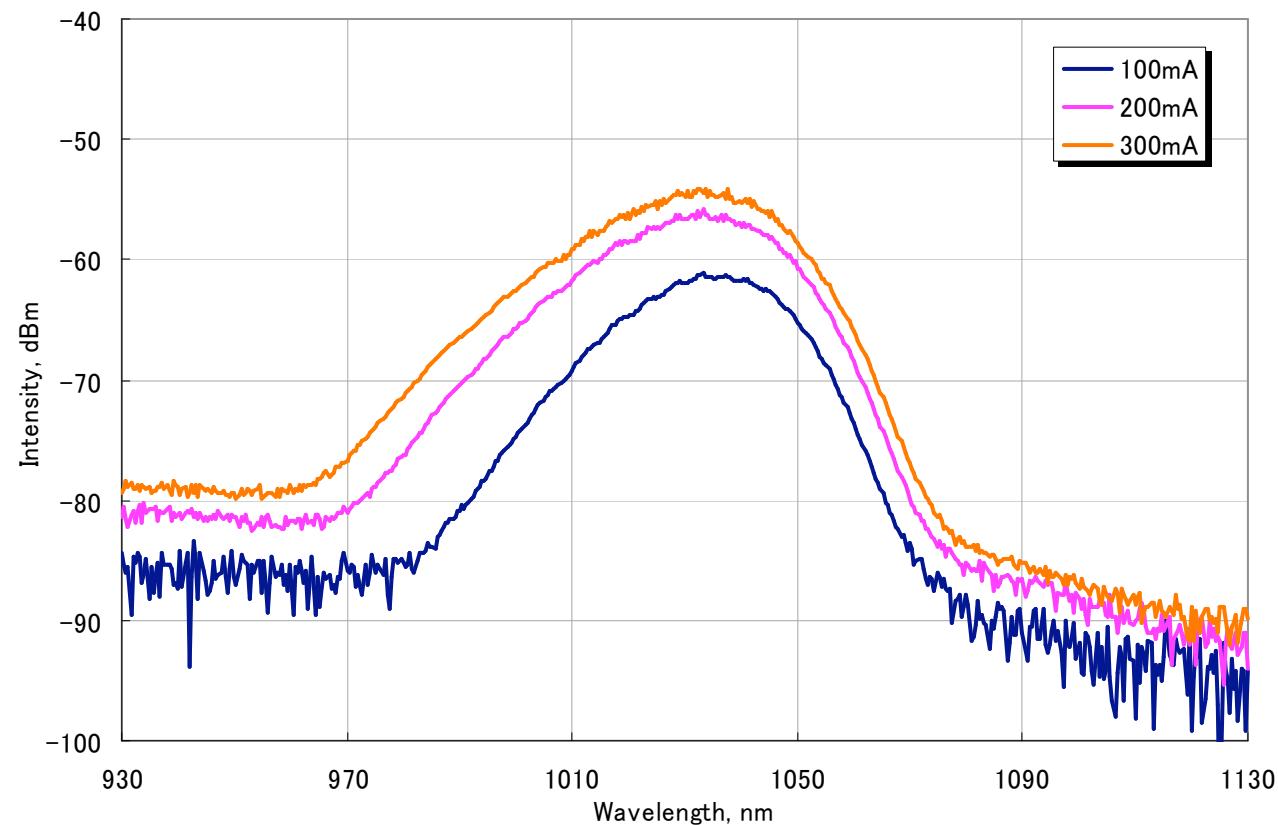
@ 25°C



# High Power Super Luminescent Diode

Characteristics of 1060nm Super Luminescent Diode

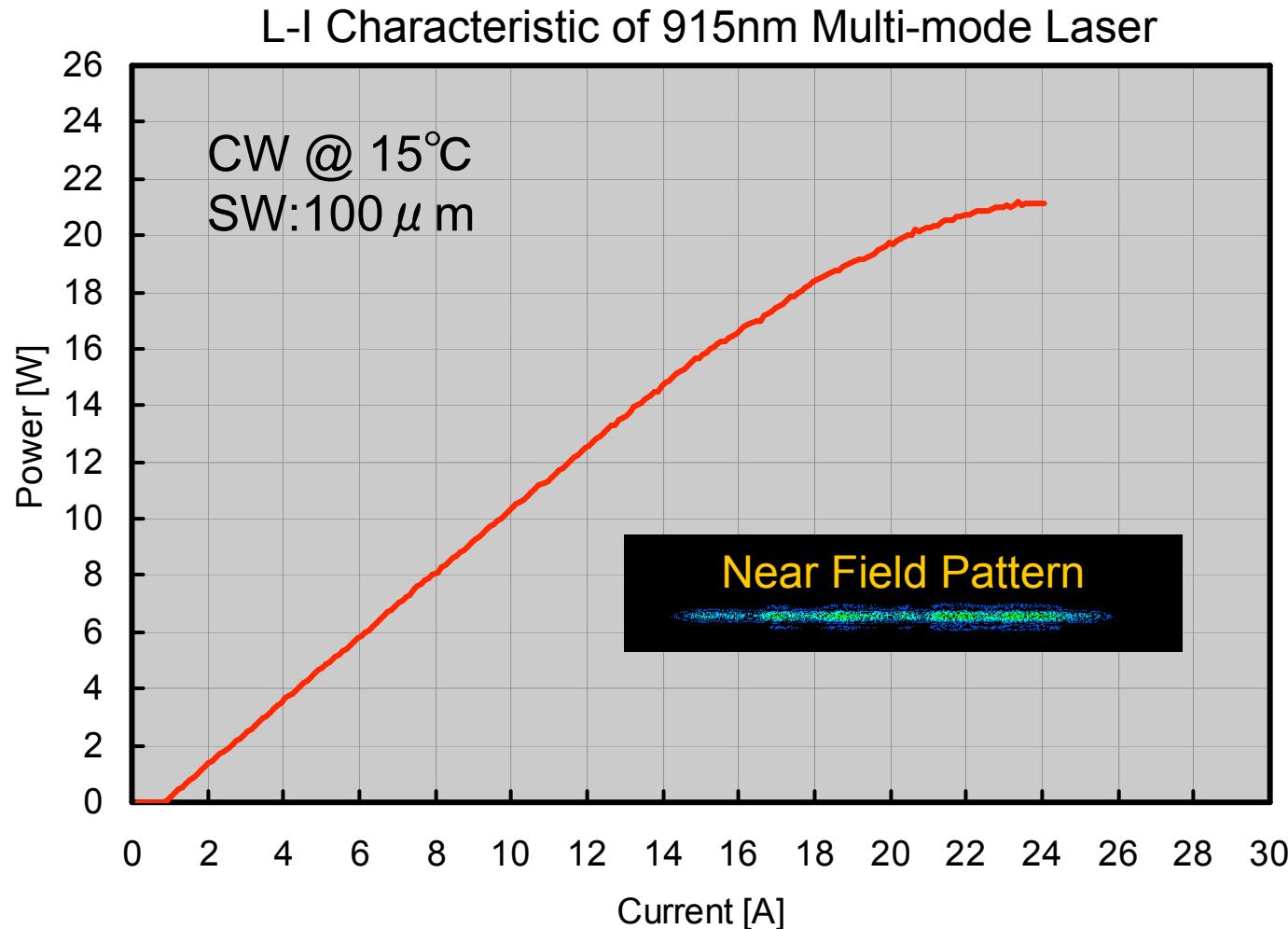
@ 25°C

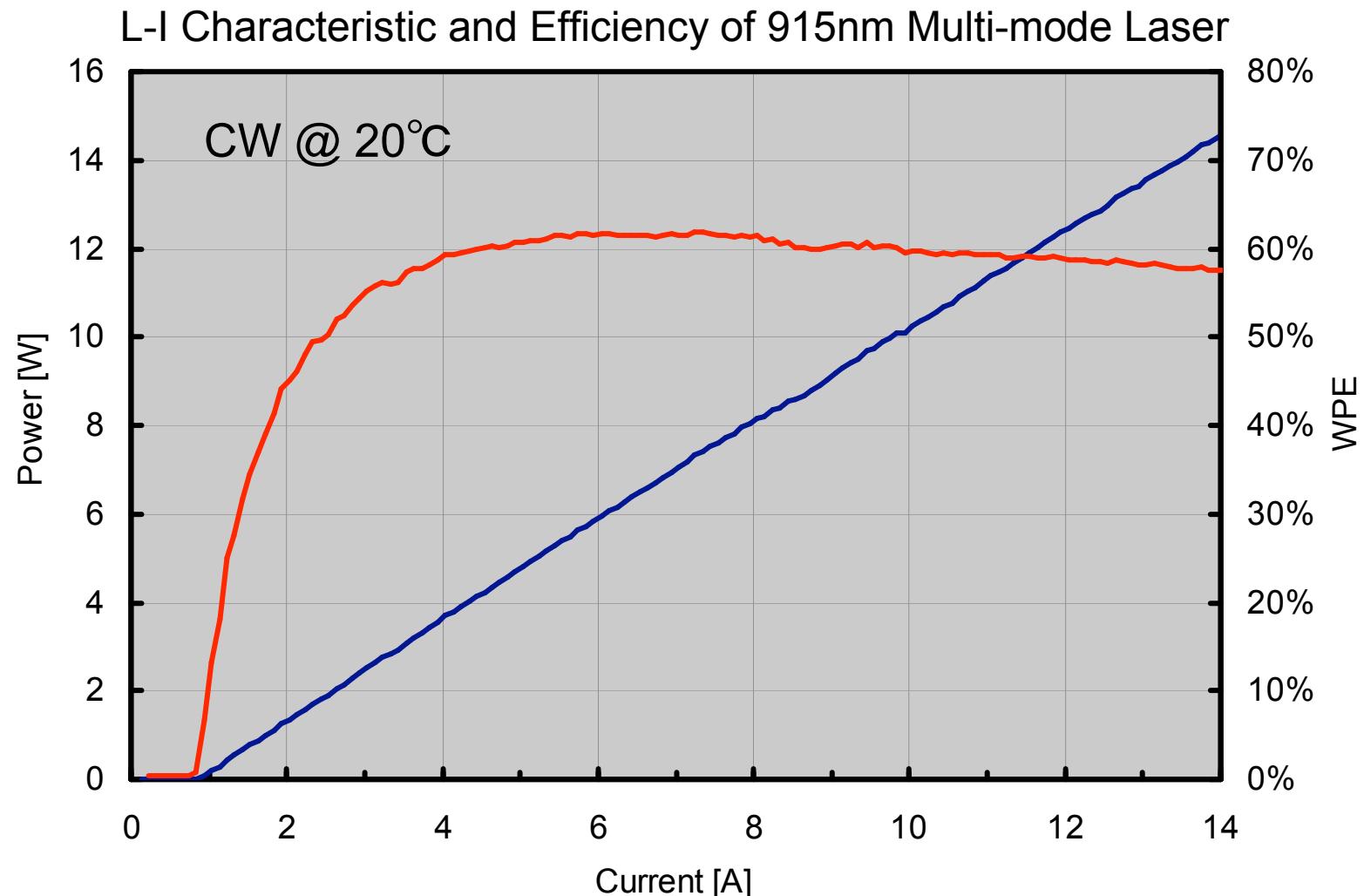


## **Multi-mode Laser and Mini-Bar**

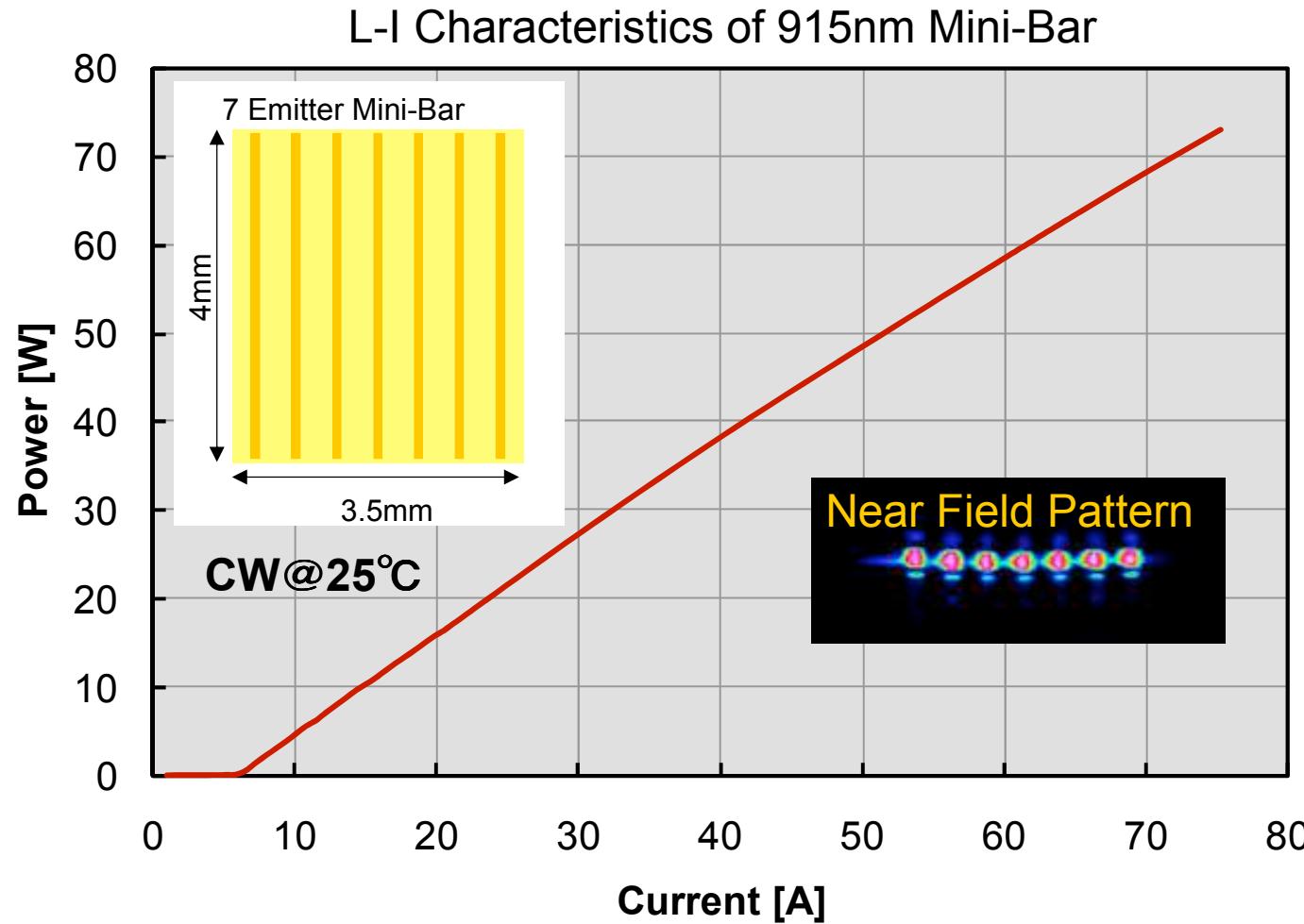
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## 20W Maximum Power Multi-mode Laser





## 7 Emitter Mini-Bar



## 808nm Multi mode Laser

L-I Characteristic and Efficiency ( CW @ 20°C )

