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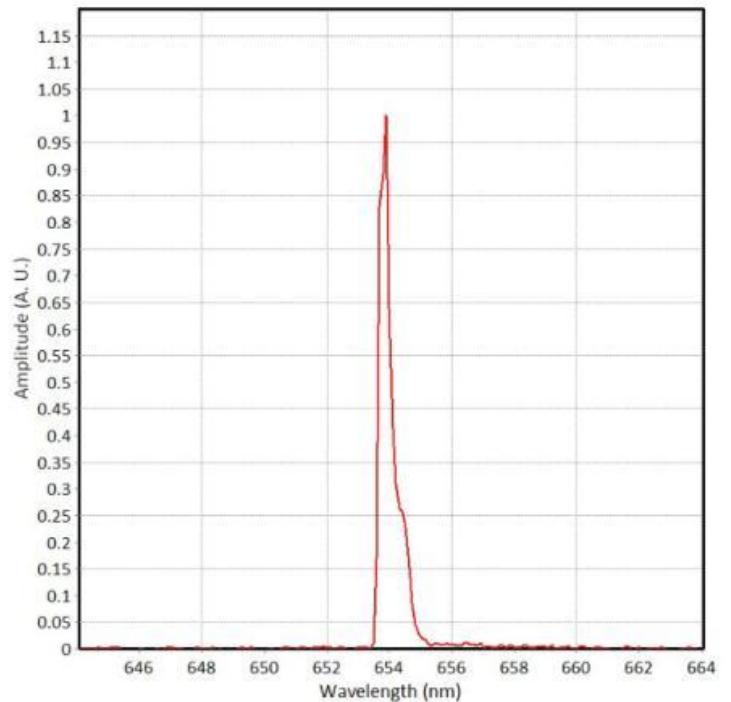
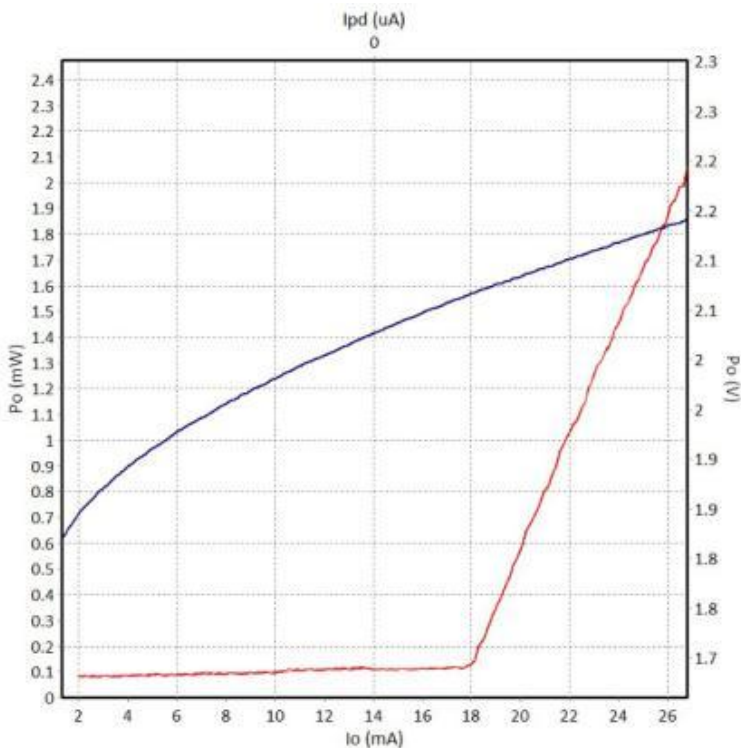
## 650nm 2mW Laser Diode Module

R650±10-2mWF-03BCK-S



| Feature                  |
|--------------------------|
| Output power: 2mW        |
| Wavelength: 650±10nm     |
| Fiber core: 4 μm, 0.13NA |
| Application              |
| Medical use              |
| Pilot light              |
| Holography               |

### 650nm 2mW Characteristics (25°C)



## Typical Device Performance(25°C)

| Parameter  |                                 | Symbol                     | Typical Value        | Unit  |
|------------|---------------------------------|----------------------------|----------------------|-------|
|            |                                 |                            | R650±10-2mWF-03BCK-S |       |
| Optical    | CW Output Power                 | Pop                        | 2                    | mW    |
|            | Center Wavelength               | $\lambda_c$                | 650±10               | nm    |
|            | Spectral Width                  | $\Delta\lambda$            | ≤3                   | nm    |
|            | Temperature drift of wavelength | $\Delta\lambda / \Delta T$ | 0.3                  | nm/°C |
| Electrical | Threshold Current               | I <sub>th</sub>            | 19                   | mA    |
|            | Operating Current               | I <sub>op</sub>            | 26                   | mA    |
|            | Operating Voltage               | V <sub>op</sub>            | 2.3                  | V     |
|            | Slope Efficiency                | $\eta_{es}$                | 0.3                  | W/A   |
| Fiber      | Fiber Core Diameter             | d <sub>core</sub>          | 4                    | μm    |
|            | Fiber Clad Diameter             | d <sub>clad</sub>          | 125                  | μm    |
|            | Fiber Buffer Diameter           | d <sub>buffer</sub>        | 250                  | μm    |
|            | Numerical Aperture              | NA                         | 0.13                 | -     |
|            | Connector                       | -                          | FC/PC,ST,SMA905      | -     |

## Other Parameters

| Parameter | Operating Temperature /°C | Operating Relative Humidity /% | Storage Temperature /°C | Storage Relative Humidity /% | Lead Soldering Temperature (max/°C) |
|-----------|---------------------------|--------------------------------|-------------------------|------------------------------|-------------------------------------|
| Min       | 10                        | -                              | -20                     | -                            | -                                   |
| Max       | 30                        | 75                             | 70                      | 90                           | 250(10Sec.)                         |

## Package Dimensions (mm)

| Pin | Function         |
|-----|------------------|
| 1   | Laser(-)         |
| 2   | Laser(+); PD (N) |
| 3   | PD (P)           |

