



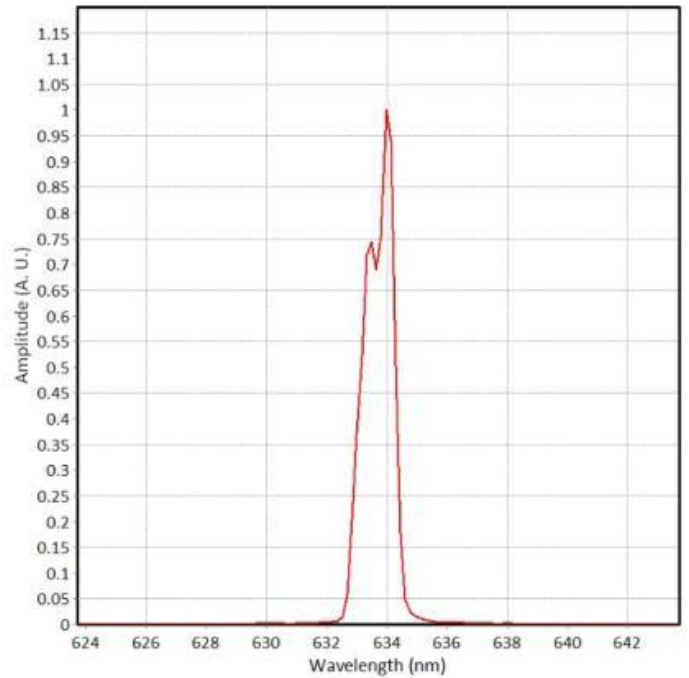
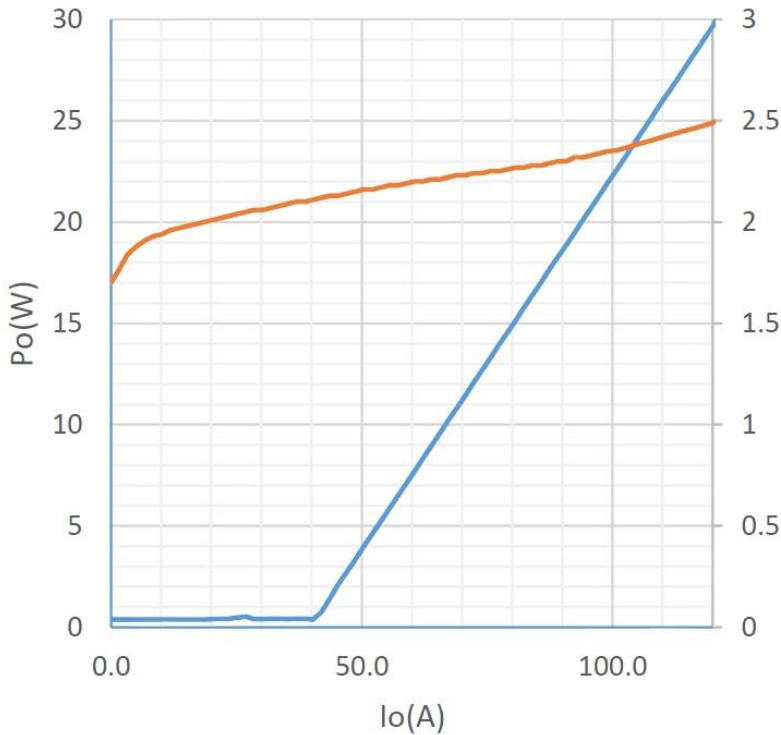
## 635nm 30mW Laser Diode Module

R635±10-30mWF-03BCK-S



| Feature       |             |
|---------------|-------------|
| Output power: | 30mW        |
| Wavelength:   | 635±10nm    |
| Fiber core:   | 4μm, 0.13NA |
| Application   |             |
| Medical use   |             |
| Pilot light   |             |
| Holography    |             |

### 635nm 30mW Characteristics (20°C)





### Typical Device Performance(25°C)

| Parameter  |                                 | Symbol                     | Typical Value         | Unit  |
|------------|---------------------------------|----------------------------|-----------------------|-------|
|            |                                 |                            | R635±10-30mWF-03BCK-S |       |
| Optical    | CW Output Power                 | Pop                        | 30                    | mW    |
|            | Center Wavelength               | $\lambda_c$                | 635±10                | nm    |
|            | Spectral Width                  | $\Delta\lambda$            | ≤3                    | nm    |
|            | Temperature drift of wavelength | $\Delta\lambda / \Delta T$ | 0.2                   | nm/°C |
| Electrical | Threshold Current               | I <sub>th</sub>            | 46                    | mA    |
|            | Operating Current               | I <sub>op</sub>            | 120                   | mA    |
|            | Operating Voltage               | V <sub>op</sub>            | 2.53                  | V     |
|            | Slope Efficiency                | $\eta_{es}$                | 0.4                   | 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   | Case     |
| 3   | Laser(+) |

