

## 635nm 30mw Single Mode SM Laser Diode

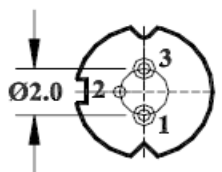
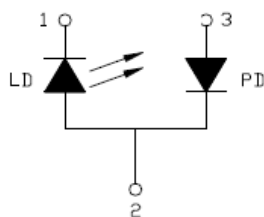
635nm SM LD|30mw power|5.6mm package

WSLD-635-030m-1-PD Wavespectrum Laser, inc. [www.wavespectrum-laser.com](http://www.wavespectrum-laser.com)

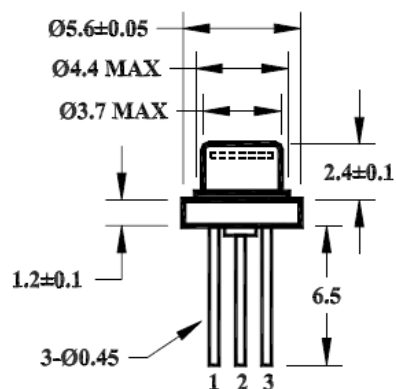
| 635nm Laser Diode SM 30mw                                                                                                                                                                                                                                 |                  | Wavespectrum Laser, Inc                                                                        |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------|--------------------------|
| PARAMETER                                                                                                                                                                                                                                                 | SYMBOL           | VALUE                                                                                          | UNIT                     |
| Reverse Voltage                                                                                                                                                                                                                                           | V <sub>r</sub>   | 2.0                                                                                            | V                        |
| Operating Temperature                                                                                                                                                                                                                                     | T <sub>op</sub>  | -10 ~ +40                                                                                      | °C                       |
| Storage Temperature                                                                                                                                                                                                                                       | T <sub>stg</sub> | -40 ~ +85                                                                                      | °C                       |
| Lead soldering temperature (10 sec.)                                                                                                                                                                                                                      | T <sub>is</sub>  | 260                                                                                            | °C                       |
| <div>Features:</div> <div><div><div></div><div>635nm</div></div><div><div></div><div>CW</div></div><div><div></div><div>Built-in PD</div></div><div><div></div><div>Single Transverse Mode</div></div><div><div></div><div>TO18 package</div></div></div> |                  | <div></div> |                          |
| <div>Applications:</div> <div><div><div></div><div>Medical laser treatment</div></div><div><div></div><div>Laser indicator</div></div><div><div></div><div>Laser detector</div></div></div>                                                               |                  |                                                                                                |                          |
| Specifications                                                                                                                                                                                                                                            |                  | WSLD-635-030m-1-PD                                                                             |                          |
|                                                                                                                                                                                                                                                           |                  | Min                                                                                            | TypeMax                  |
| Center Wavelength@25°C                                                                                                                                                                                                                                    |                  | 635nm                                                                                          | 639nm642nm               |
| Spectral Width (FWHM)                                                                                                                                                                                                                                     |                  | ----                                                                                           | 2.0nm----                |
| Output Power                                                                                                                                                                                                                                              |                  | ----                                                                                           | 30mw----                 |
| Emitter                                                                                                                                                                                                                                                   |                  | ----                                                                                           | Single----               |
| Beam Divergence (FWHM)                                                                                                                                                                                                                                    |                  | 30°⊥ x 6.0°∥                                                                                   | 33°⊥ x 8.5°∥35°⊥ x 9.5°∥ |
| Monitor Current                                                                                                                                                                                                                                           |                  | 0.05mA                                                                                         | 0.3mA1.0mA               |
| PD Reverse Voltage                                                                                                                                                                                                                                        |                  | ----                                                                                           | 30V----                  |
| PD Forward Current                                                                                                                                                                                                                                        |                  | ----                                                                                           | -----                    |
| Slope Efficiency                                                                                                                                                                                                                                          |                  | 0.5mW / mA                                                                                     | 0.75mW / mA----          |
| Threshold Current (Typ.)                                                                                                                                                                                                                                  |                  | ----                                                                                           | 50mA60mA                 |
| Operating Current (Typ.)                                                                                                                                                                                                                                  |                  | ----                                                                                           | 95mA105mA                |
| Operating Voltage                                                                                                                                                                                                                                         |                  | ----                                                                                           | 2.3V2.45V                |
| Package Style                                                                                                                                                                                                                                             |                  | TO18                                                                                           |                          |



## TO18(5.6mm) Package View



**Bottom View**



Electrically shorten LD module and store in non-extreme conditions.

Suggest using the constant current power supply.

