

# 780nm~785nm 100mW Single Mode LD| SM Laser Diode|5.6mm TO18 Package

## 780nm SM Infrared Laser Diodes |Single Mode LD | Built-in Photodiode

WSLD-780-100m-1-PD

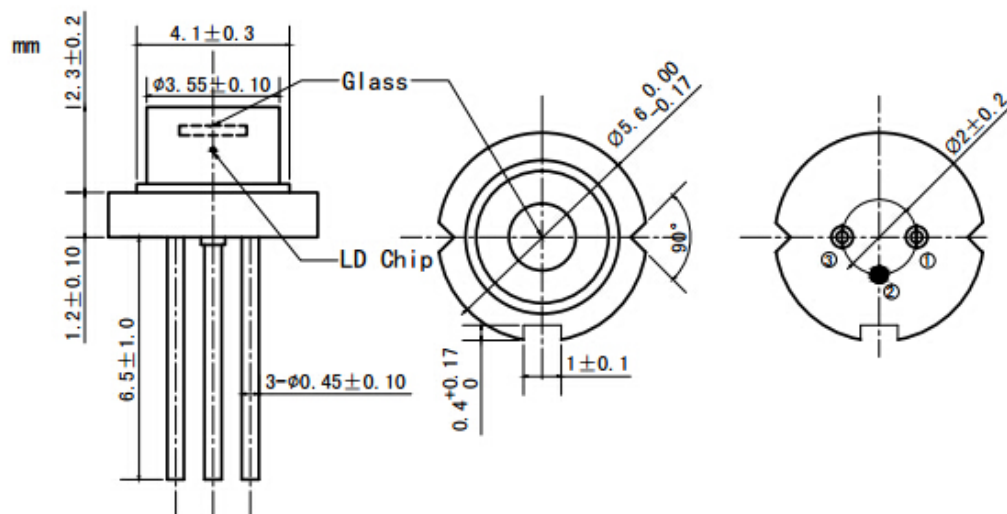
Wavespectrum laser Group

www.wavespectrum-laser.com

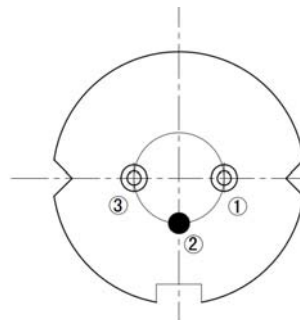
| 780nm Laser Diode PD                                                                                                   |                  | 100mW/TO18                                                                          | en.wavespectrum-laser.com.cn |                          |
|------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|------------------------------|--------------------------|
| Reverse Voltage                                                                                                        | V <sub>r</sub>   | 2.0                                                                                 | V                            |                          |
| Operating Temperature                                                                                                  | T <sub>op</sub>  | -20 ~ +60                                                                           | °C                           |                          |
| Storage Temperature                                                                                                    | T <sub>stg</sub> | -40 ~ +85                                                                           | °C                           |                          |
| Lead soldering temperature (5 sec.)                                                                                    | T <sub>is</sub>  | 260                                                                                 | °C                           |                          |
| Features:                                                                                                              |                  |  |                              |                          |
| <ul style="list-style-type: none"><li>780nm</li><li>Single Mode LD</li><li>Built-in PD</li><li>TO18 Package</li></ul>  |                  |                                                                                     |                              |                          |
| Applications:                                                                                                          |                  |                                                                                     |                              |                          |
| <ul style="list-style-type: none"><li>Medical Laser Treatment</li><li>Laser Indicator</li><li>Laser Detector</li></ul> |                  |                                                                                     |                              |                          |
| Specifications                                                                                                         |                  | WSLD-780-100m-1-PD                                                                  |                              |                          |
|                                                                                                                        |                  | Min                                                                                 | Type                         | Max                      |
| Center Wavelength@25℃                                                                                                  |                  | 780nm±10nm                                                                          |                              |                          |
| Spectral Width (FWHM)                                                                                                  |                  | 2.0nm                                                                               |                              |                          |
| Output Power (CW)                                                                                                      |                  | 100mW                                                                               |                              |                          |
| Recommend Operating Temperature                                                                                        |                  | 25℃                                                                                 |                              |                          |
| Beam mode                                                                                                              |                  | Single Transverse Mode                                                              |                              |                          |
| Beam Divergence (FWHM)                                                                                                 |                  | 35°± x 5° <sub>II</sub>                                                             | 36°± x 9° <sub>II</sub>      | 42°± x 12° <sub>II</sub> |
| Monitor Current                                                                                                        |                  |                                                                                     | 0.2mA                        |                          |
| Slope Efficiency                                                                                                       |                  |                                                                                     | 0.9mW / mA                   |                          |
| Threshold Current (Typ.)                                                                                               |                  |                                                                                     | 30mA                         | 60mA                     |
| Operating Current (Typ.)                                                                                               |                  |                                                                                     | 140mA                        | 160mA                    |
| Operating Voltage                                                                                                      |                  |                                                                                     | 2.0V                         | 2.4V                     |
| Package Style                                                                                                          |                  | TO18                                                                                |                              |                          |
| Photodiode                                                                                                             |                  | Built-in                                                                            |                              |                          |



## TO18(5.6mm) Package View



## PIN Bottom View:



|   |               |
|---|---------------|
| 1 | LD(-)         |
| 2 | LD(+) & PD(-) |
| 3 | PD(+)         |

Electrically shorten LD module and store in non-extreme conditions.  
Suggest using the constant current power supply.



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