

## 980nm 50mw SM laser diode

### 50mw 980nm Single Mode LD with 5.6mm TO18 Package

WSLD-980-050m-1-PD

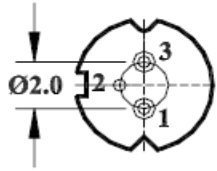
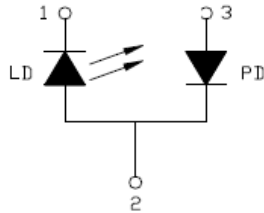
Wavespectrum laser inc.

www.wavespectrum-laser.com

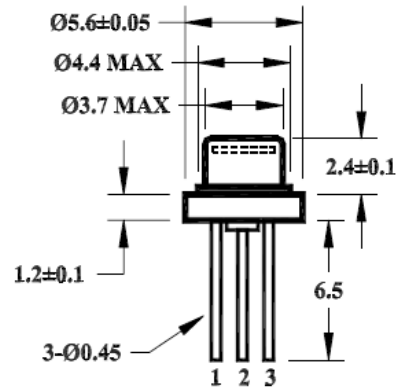
| 980nm Laser Diode                                                                                                                                 |                  | 50mw                                                                                | Wavespectrum Laser, Inc |                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------|
| 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                      |                                      |
| <b>Features:</b> <ul style="list-style-type: none"><li>980nm</li><li>CW</li><li>Built-in PD</li><li>Single Mode LD</li><li>TO18 package</li></ul> |                  |  |                         |                                      |
| <b>Applications:</b> <ul style="list-style-type: none"><li>Medical laser treatment</li><li>Laser indicator</li><li>Laser detector</li></ul>       |                  |                                                                                     |                         |                                      |
| Specifications                                                                                                                                    |                  | WSLD-980-050m-1-PD                                                                  |                         |                                      |
|                                                                                                                                                   |                  | Min                                                                                 | Type                    | Max                                  |
| Center Wavelength@25℃                                                                                                                             |                  | 970nm                                                                               | 980nm                   | 990nm                                |
| Spectral Width (FWHM)                                                                                                                             |                  | ----                                                                                | ----                    | 3.0nm                                |
| Output Power                                                                                                                                      |                  | ----                                                                                | 50mw                    | ----                                 |
| Emitter Size                                                                                                                                      |                  | ----                                                                                | 5um*1um                 | ----                                 |
| Beam Divergence (FWHM)                                                                                                                            |                  | ----                                                                                | ----                    | 40° <sub>⊥</sub> x 12° <sub>//</sub> |
| Temperature Coefficient of Wavelength                                                                                                             |                  | ----                                                                                | 0.3nm / °C              | ----                                 |
| Slope Efficiency                                                                                                                                  |                  | 0.8mW / mA                                                                          | 0.9mW / mA              | ----                                 |
| Threshold Current (Typ.)                                                                                                                          |                  | ----                                                                                | ----                    | 40mA                                 |
| Operating Current (Typ.)                                                                                                                          |                  | ----                                                                                | ----                    | 150mA                                |
| Operating Voltage                                                                                                                                 |                  | ----                                                                                | ----                    | 2.2V                                 |
| Monitor Current                                                                                                                                   |                  | ----                                                                                | ----                    | ----                                 |
| 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.



Please contact us:

Website: [www.wavespectrum-laser.com](http://www.wavespectrum-laser.com) (for more detailed information)

Email: [info@wavespectrum-laser.com](mailto:info@wavespectrum-laser.com) (for inquiry about this product)

