




**980nm 100mw SM laser diode with PD**

**100mw 980nm Single Mode LD with 5.6mm TO18 Package**

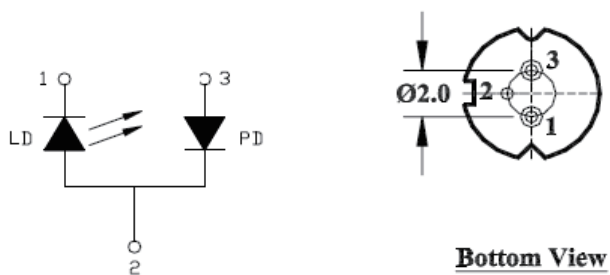
WSLD-980-100m-1-PD

Wavespectrum laser inc.

www.wavespectrum-laser.com

| 980nm Laser Diode   | 100mw                  | Wavespectrum Laser, Inc   |                     |                     |
|---|------------------------|---|---------------------|---------------------|
| <b>Reverse Voltage</b>  | <b>V<sub>r</sub></b>   | <b>2.0</b>  | <b>V</b>            |                     |
| <b>Operating Temperature</b>  | <b>T<sub>op</sub></b>  | <b>10~+40</b>   | <b>°C</b>           |                     |
| <b>Storage Temperature</b>  | <b>T<sub>stg</sub></b> | <b>-40 ~ +85</b>  | <b>°C</b>           |                     |
| <b>Lead soldering temperature (10 sec.)</b>   | <b>T<sub>is</sub></b>  | <b>260</b>  | <b>°C</b>           |                     |
| <b>Features:</b> <ul style="list-style-type: none"> <li>980nm</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>Others</li> </ul>     |                        |   |                     |                     |
| <b>Specifications</b>   |                        | <b>WSLD-980-100m-1-PD</b>   |                     |                     |
|   |                        | <b>Min</b>  | <b>Type</b>         | <b>Max</b>          |
| <b>Center Wavelength@25°C</b>   |                        | <b>970nm</b>  | <b>980nm</b>        | <b>990nm</b>        |
| <b>Spectral Width (FWHM)</b>  |                        | <b>----</b>   | <b>1nm</b>          | <b>2.0nm</b>        |
| <b>Output Power</b>   |                        | <b>----</b>   | <b>100mw</b>        | <b>----</b>         |
| <b>Emitter Size</b>   |                        | <b>----</b>   | <b>3um*1.5um</b>    | <b>----</b>         |
| <b>Beam Divergence (FWHM)</b>   |                        | <b>15°± x 8°//</b>  | <b>20°± x 10°//</b> | <b>25°± x 12°//</b> |
| <b>Temperature Coefficient of Wavelength</b>  |                        | <b>----</b>   | <b>0.3nm / °C</b>   | <b>----</b>         |
| <b>Slope Efficiency</b>   |                        | <b>0.8mW/mA</b>   | <b>0.9mW/mA</b>     | <b>----</b>         |
| <b>Threshold Current (Typ.)</b>   |                        | <b>----</b>   | <b>12mA</b>         | <b>16mA</b>         |
| <b>Operating Current (Typ.)</b>   |                        | <b>----</b>   | <b>155mA</b>        | <b>170mA</b>        |
| <b>Operating Voltage</b>  |                        | <b>----</b>   | <b>2.2V</b>         | <b>2.5V</b>         |
| <b>Monitor Current</b>  |                        | <b>----</b>   | <b>0.35uA</b>       | <b>0.50uA</b>       |
| <b>Package Style</b>  |                        | <b>TO18</b>   |                     |                     |

**TO18(5.6mm) Package View**



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

