Features
- Center wavelength 650nm
- Built-in monitor detector
- Operating temperature -10°C to 50°C
- Hermetically sealed TO-18 package in pigtailed or receptacle housing with FC, ST or SC connector

Applications
- Test instruments

Specifications (T=25°C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Test Conditions</th>
<th>Min</th>
<th>Typical</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength</td>
<td>λ</td>
<td>P₀</td>
<td>645</td>
<td>650</td>
<td>660</td>
<td>nm</td>
</tr>
<tr>
<td>Threshold Current</td>
<td>Iₘₚ</td>
<td>-</td>
<td>-</td>
<td>20</td>
<td>40</td>
<td>mA</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>Vₚₒ</td>
<td>P₀</td>
<td>-</td>
<td>2.2</td>
<td>2.6</td>
<td>V</td>
</tr>
<tr>
<td>Optical Output Power</td>
<td>P₀</td>
<td>Iₚₒ=30mA</td>
<td>0.1</td>
<td>0.25</td>
<td>-</td>
<td>mW</td>
</tr>
<tr>
<td>Monitor Current (PD)</td>
<td>Iₘₚ</td>
<td>P₀,Vₕ₀=5V</td>
<td>0.05</td>
<td>0.2</td>
<td>-</td>
<td>mA</td>
</tr>
<tr>
<td>Tracking Error</td>
<td>Eᵣₚ</td>
<td>-40 to 85°C</td>
<td>-</td>
<td>±1.0</td>
<td>-</td>
<td>dB</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings (T=25°C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Min.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward Current (LD)</td>
<td>Iₒₚ</td>
<td>-</td>
<td>50</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Voltage (LD)</td>
<td>Vᵣₒ</td>
<td>-</td>
<td>2</td>
<td>V</td>
</tr>
<tr>
<td>Reverse Voltage (PD)</td>
<td>Vᵣₒ</td>
<td>-</td>
<td>30</td>
<td>V</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Tₒ</td>
<td>-10</td>
<td>+50</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>Tᵣₒ</td>
<td>-40</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Lead Soldering Temperature (10 sec)</td>
<td>Tᵣₚ</td>
<td>-</td>
<td>260</td>
<td>°C</td>
</tr>
</tbody>
</table>

Ordering Information
- Connector type:
  - Receptacle: SC, FC or ST
  - Pigtail: SC, FC, ST, LC, MU or SMA
- Flange type:
  - B for board mount
  - P for panel mount
  - U for UP mount
  - X for None
- Fiber length:
  - R₀ for receptacle
  - PG for pigtail 100cm
- Receptacle:
  - X for PC
  - P for PC
  - A for APC
- Grade:
  - 1, 2, 3 for coupled power level
  (Please see the specs above)
650nm Laser Diode Module

Pin Connections

BOTTOM VIEW

Dimension
Pigtail Type

BM

PM

UPM

SC

FC

ST

MU

LC

SMA

2009-06
650nm Laser Diode SM Module

Receptacle Type

FC-PM

FC-BM

ST-BM

ST-PM

SC