**Features**
- High coupled power
- Peak wavelength 1300 nm
- Data rate up to 115 Mb/s
- High reliability >2 x 10^8 hrs
- Operating temperature range -40°C to 70°C
- Hermetically sealed To -46 package in pigtailed or receptacle housing with FC, ST or SC connector

**Specifications (100mA forward current, 25°C)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Min</th>
<th>Typical</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Wavelength</td>
<td>( \lambda )</td>
<td>1260</td>
<td>1300</td>
<td>1350</td>
<td>nm</td>
</tr>
<tr>
<td>Spectral width FWHM</td>
<td>( \Delta \lambda )</td>
<td>-</td>
<td>140</td>
<td>200</td>
<td>nm</td>
</tr>
<tr>
<td>Coupled power to 62.5 ( \mu )m fiber</td>
<td>Po</td>
<td>20</td>
<td>-</td>
<td>-</td>
<td>( \mu ) W</td>
</tr>
<tr>
<td>Coupled power to 50 ( \mu )m fiber</td>
<td>Po</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>( \mu ) W</td>
</tr>
<tr>
<td>Forward voltage</td>
<td>( V_F )</td>
<td>-</td>
<td>1.3</td>
<td>-</td>
<td>V</td>
</tr>
<tr>
<td>Rise/fall time (10% to 90%)</td>
<td>trtf</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>ns</td>
</tr>
<tr>
<td>Data Rate</td>
<td>B</td>
<td>115</td>
<td>-</td>
<td>-</td>
<td>Mb/s</td>
</tr>
<tr>
<td>Temperature coefficient of wavelength</td>
<td>Tw</td>
<td>-</td>
<td>0.6</td>
<td>-</td>
<td>nm/°C</td>
</tr>
<tr>
<td>Temperature coefficient of power</td>
<td>Tp</td>
<td>-</td>
<td>-1</td>
<td>-</td>
<td>%/°C</td>
</tr>
</tbody>
</table>

**Absolute Maximum Ratings**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Min.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>To</td>
<td>-40</td>
<td>+70</td>
<td>°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>T_{lbl}</td>
<td>-40</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Reverse voltage</td>
<td>( V_R )</td>
<td>-</td>
<td>2</td>
<td>V</td>
</tr>
<tr>
<td>Peak forward current (duty cycle &lt; 50%, f&gt;1MHz)</td>
<td>Iop</td>
<td>-</td>
<td>125</td>
<td>mA</td>
</tr>
<tr>
<td>Lead Soldering Temperature (10sec)</td>
<td>( T_L )</td>
<td>-</td>
<td>260</td>
<td>°C</td>
</tr>
</tbody>
</table>

**Ordering Information**

- **Fiber length:**
  - R0 for receptacle
  - PG for pigtail 100cm
- **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, S for Sugar Cube
- **Fiber size:**
  - 1 for 50/125um
  - 2 for 62.5/125um
- **Receptacle:**
  - X for None
  - P for PC
  - A for APC
- **Grade:**
  - 1, 2 for coupled power level

(please see the specs above)
Pin Connections

BOTTOM VIEW

UNIT: MM

Dimension
Pigtail Type

BM

PM

UPM

SC

FC

ST

MU

LC

SMA

2-φ2.2

2-56UNC-2B

2-φ2.2

ϕ0.9 cable

ϕ3.0 cable
Sugar Cube

Pin Connections

<table>
<thead>
<tr>
<th>PIN No.</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ANODE</td>
</tr>
<tr>
<td>2</td>
<td>CATHODE</td>
</tr>
<tr>
<td>3</td>
<td>ANODE</td>
</tr>
<tr>
<td>4</td>
<td>ANODE</td>
</tr>
</tbody>
</table>

Dimension (ST Receptacle)  Unit  mm

Units: mm
1300nm LED Module

1300nm LED
Fiber Output Power vs. Drive Current

62.5/125um fiber

25°C

70°C