1300nm ELED Module

Features

- High coupled power
- Peak wavelength 1310 nm
- 3 dB bandwidth >40 nm
- Cut off frequency > 150 MHz
- Operating temperature range 0°C to 70°C
- Hermetically sealed TO 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>λ</td>
<td>1280</td>
<td>1310</td>
<td>1330</td>
<td>nm</td>
</tr>
<tr>
<td>Spectral width FWHM</td>
<td>Δλ</td>
<td>-</td>
<td>-</td>
<td>40</td>
<td>nm</td>
</tr>
<tr>
<td>Coupled power to 62.5 µm fiber</td>
<td>Po</td>
<td>-</td>
<td>400</td>
<td>-</td>
<td>µW</td>
</tr>
<tr>
<td>Coupled power to 50 µm fiber</td>
<td>Po</td>
<td>-</td>
<td>400</td>
<td>-</td>
<td>µW</td>
</tr>
<tr>
<td>Coupled power to 9 µm fiber</td>
<td>Po</td>
<td>200</td>
<td>-</td>
<td>-</td>
<td>µW</td>
</tr>
<tr>
<td>Forward voltage</td>
<td>V_F</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>V</td>
</tr>
<tr>
<td>Rise/fall time (10% to 90%)</td>
<td>tr/tf</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>ns</td>
</tr>
<tr>
<td>Cut off frequency (Iop=100 mA, 20mA p-p)</td>
<td>B</td>
<td>150</td>
<td>-</td>
<td>-</td>
<td>Mb/s</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>T_o</td>
<td>0</td>
<td>+70</td>
<td>°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>T_stg</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>Forward current</td>
<td>I_op</td>
<td>-</td>
<td>150</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

- R0 for receptacle
- PG for pigtail 100cm
- SNS-S D 1 3 -4
- Flange type
  - B for Board Mount
  - P for Panel Mount
  - U for UP Mount
  - X for None, S for Sugar Cube
- Connector type
  - Receptacle: SC, FC or ST
  - Pigtail: SC, FC, ST, LC, MU
- Fiber size
  - M1 for 50/125um
  - M2 for 62.5/125um
  - S1 for 9/125um
- Receptacle: X
  - Pigtail: P for PC
  - A for APC
1300nm ELED Module

Pin Connections

Dimension
Pigtail Type
Receptacle Type

**FC-PM**

- Diameter: 3.45
- Height: 9.1
- Hole: 2-∅2.3

**FC-BM**

- Diameter: 9.5
- Height: 8
- Hole: 2-5/6UNC-2B

**ST-BM**

- Diameter: 9.5
- Height: 8.2
- Hole: 2-5/6UNC-2B

**ST-PM**

- Diameter: 3.45
- Height: 9.1
- Hole: 2-∅2.3

**SC**

- Diameter: 18
- Height: 9.4
- Hole: 2-∅2.3

1300nm ELED Module

Thread Holes: 5 12.3

Dimensions: 13 20.8

Mounting: M8×0.75

Mounting: 3/8"-32UNF

2012-1
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 ELED Module

1300nm ELED Module Power-Iop Curve

- 62.5/125
- 50/125u
- 9/125u

Po(uW) vs Iop(mA)