Super-Luminescent Light Emitting Diode (SLD)

TO CAN Packaged Devices

Features

- High power and broad band
- Low coherence length
- Uncooled & Cooled TO package
- Monitor PD is an option

Applications

- Medical diagnostic systems
- Optical Fiber sensor systems
- Illumination

IPSDT0701 SLD TO CAN Specifications (Tcase=25°C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Wavelength</td>
<td>740</td>
<td>750</td>
<td>760</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>7</td>
<td>9</td>
<td>-</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Output Power</td>
<td>6</td>
<td>10</td>
<td>-</td>
<td>mW</td>
<td>Flat Window Output</td>
</tr>
<tr>
<td>Operating Current</td>
<td>-</td>
<td>120</td>
<td>150</td>
<td>mA</td>
<td></td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Spectral Ripple</td>
<td>-</td>
<td>0.1</td>
<td>0.5</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Beam Spread Angle:</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Parallel</td>
<td>-</td>
<td>10</td>
<td>18</td>
<td>degree</td>
<td></td>
</tr>
<tr>
<td>- Vertical</td>
<td>-</td>
<td>38</td>
<td>45</td>
<td>degree</td>
<td></td>
</tr>
</tbody>
</table>

Detailed Information about operation/storage temperature available upon request: Contact sales@inphenix.com for more details

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<th>Pin#</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SLD Anode</td>
</tr>
<tr>
<td>2</td>
<td>SLD Cathode, PD Cathode and Case</td>
</tr>
<tr>
<td>3</td>
<td>PD Anode</td>
</tr>
</tbody>
</table>

φ9 mm TO-CAN (TO5/TO9/TO39)
**Pin#**  |  **Connection**  
--- | ---  
1 | PD Anode  
2 | SLD Cathode, PD Cathode and Case  
3 | SLD Anode  
4 |  

**Pigtail Information**  
- **Connector**: TBD  
- **Fiber**: SMF  
- **Fiber Length**: 0.5 m  

**φ5.6 mm Pigtailed Coaxial Device (TO56 Header)**
Part Numbering System

Model -
IPSDT0701: 750nm SLD TO CAN
IPSDT080X: 820nm SLD TO CAN
IPSDT090X: 900nm SLD TO CAN
IPSDT13XX: 1310nm SLD TO CAN
IPSDT150X: 1550nm SLD TO CAN

Package -
7: TO 56
8: TO 8
9: TO 9

Fiber Type:
0: No Cap    1: Single Mode   5: Ball Lens
6: Flat Glass    7: Aspheric Lens

Jacket Type:
0: No Jacket
1: 900 µm
2: 250 µm tight buffer

Connector Type:
0: No Connectors
3: FC/APC
4: FC/UPC
7: SC/APC
8: SC/UPC

Back Facet Monitor:
Available upon request

Example: IPSDT0801-9700: 820nm SLD, TO9 package with Aspheric lens.

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