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

IPSDT0802 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>800</td>
<td>820</td>
<td>840</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>10</td>
<td>15</td>
<td>22</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Operating Current</td>
<td>-</td>
<td>140</td>
<td>150</td>
<td>mA</td>
<td>Flat Window Output</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>
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<tr>
<td>- Parallel</td>
<td>-</td>
<td>10</td>
<td>25</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
<table>
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<tr>
<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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