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

IPSDT0902 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>880</td>
<td>900</td>
<td>910</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>25</td>
<td>30</td>
<td>-</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Output Power</td>
<td>8</td>
<td>10</td>
<td>-</td>
<td>mW</td>
<td>Flat Window Output</td>
</tr>
<tr>
<td>Operating Current</td>
<td>-</td>
<td>200</td>
<td>300</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>25</td>
<td>degree</td>
<td></td>
</tr>
<tr>
<td>- Vertical</td>
<td>-</td>
<td>35</td>
<td>45</td>
<td>degree</td>
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</tr>
</tbody>
</table>

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

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<table>
<thead>
<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**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector</td>
<td>TBD</td>
</tr>
<tr>
<td>Fiber</td>
<td>SMF</td>
</tr>
<tr>
<td>Fiber Length</td>
<td>0.5 m</td>
</tr>
</tbody>
</table>

**5.6 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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