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
- High Voltage & Current Monitor
- Optical Fiber sensor systems
- Optical communication

IPSDT1502 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>1520</td>
<td>1550</td>
<td>1570</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>45</td>
<td>50</td>
<td>-</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Output Power</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>mW</td>
<td>Flat Window Output</td>
</tr>
<tr>
<td>Operating Current</td>
<td>-</td>
<td>150</td>
<td>200</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>0.2</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>30</td>
<td>35</td>
<td>degree</td>
<td></td>
</tr>
<tr>
<td>- Vertical</td>
<td>-</td>
<td>35</td>
<td>40</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>
<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)

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.
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>

Φ5.6 mm Pigtailed Coaxial Device (TO56 Header)

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc. All rights are reserved.
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.

Corporate Office
250 North Mines Rd
Livermore, CA 94551
Tel: 925.606.8809
Fax: 925.606.8810
www.inphenix.com
sales@inphenix.com