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

IPSDT1302 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>
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</thead>
<tbody>
<tr>
<td>Central Wavelength</td>
<td>1280</td>
<td>1310</td>
<td>1340</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>35</td>
<td>40</td>
<td>-</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Output Power</td>
<td>3</td>
<td>5</td>
<td>-</td>
<td>mW</td>
<td>Flat Window Output</td>
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<tr>
<td>Operating Current</td>
<td>-</td>
<td>150</td>
<td>200</td>
<td>mA</td>
<td></td>
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<tr>
<td>Forward Voltage</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>V</td>
<td></td>
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<tr>
<td>Spectral Ripple</td>
<td>-</td>
<td>0.1</td>
<td>1</td>
<td>dB</td>
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<tr>
<td>Beam Spread Angle:</td>
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<td>-</td>
<td>-</td>
<td></td>
<td></td>
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<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>
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</tr>
</tbody>
</table>

Detailed Information about operation/storage temperature available upon request: Contact sales@inphenix.com for more details
Pin# | Connection
--- | ---
1 | SLD Anode
2 | SLD Cathode, PD Cathode and Case
3 | PD Anode

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### Pin#  Connection

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<tr>
<td>1</td>
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<tr>
<td>2</td>
<td>SLD Cathode, PD Cathode and Case</td>
</tr>
<tr>
<td>3</td>
<td>SLD Anode</td>
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<td>4</td>
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### Pigtail Information

<table>
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<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>Connector</td>
<td>TBD</td>
</tr>
<tr>
<td>Fiber</td>
<td>SMF</td>
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<tr>
<td>Fiber Length</td>
<td>0.5 m</td>
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### Bottom View

*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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