PD-LD Inc. offers a variety of standard and custom PIN Photodiodes and APDs in fiber coupled packages. The semiconductors offered are of proven manufacture and design. Our Silicon devices cover the optical spectrum from 400 to 1100nm. These devices are available in fiber pigtailed co-axial packages or in connector style receptacle packages.

**Pigtailing**

Devices can be pigtailed with any size optical fiber that is compatible with its active area size. Pigtails may range in core size from 3um to 100micron. One meter is the standard length, but any length or connector termination may be specified. Pigtails may be terminated with ST, FC, SC and LC connectors with either PC or APC polish.

**Receptacles**

Standard ST, FC and SC housings are available in both panel and board mountable versions. These receptacles can be optimized for use with both single mode and multimode optical fibers.

**Manufacturing**

Efficient package designs and manufacturing processes allow PD-LD to rapidly support both small and large volume requirements. Complete 100% testing of all critical parametric device values ensure optimal performance and quality. Not all receptacle packaging styles are represented on this data sheet, so please contact PD-LD for specific needs.

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<td><strong>Silicon (@5V bias, 850nm Laser Source, 23°C for typical values)</strong></td>
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PD-LD Inc. reserves the right to make modifications to or discontinue products without prior notice. 06/13 PDSI REV 5

PD-LD, Inc. 
30-B Pennington-Hopewell Road, Pennington NJ 08534 TEL: 609-564-7900 FAX: 609-564-7901 E-MAIL: info@pd-ld.com
Pinout & Mechanical Dimensions (mm)

PD-LD aligns then secures each TO-Packaged photodiode within a universal alignment sleeve. This assembly may then be incorporated into a connector receptacle assembly (FC, SC, ST, etc.) or into a fiber pigtailed assembly. Some examples of housings are listed here, but other packages are available upon request, including board mountable SC and FC styles. The standard pin-out rotation is to have the TO can tab at 1:00 when the assembly is viewed from the rear and the key slot is up (12:00).

PART NUMBER CONFIGURATION

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<tr>
<th>Device Type</th>
<th>Device Code K</th>
<th>Active Area AAA</th>
<th>Fiber Size F (μm)</th>
<th>Connector CC</th>
<th>Receptacle CCC</th>
<th>Bracket B Pigtail Only</th>
<th>Orientation O</th>
<th>Pigtail Length M</th>
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<tr>
<td>SI= Silicon PIN</td>
<td>Unique Device codes may be assigned by PD-LD to each detector. Standard 500 um detectors are code “U”</td>
<td>500=500μm</td>
<td>1=9/125/900</td>
<td>FC=FC/PC</td>
<td>FC1=Panel Mount</td>
<td>A=None</td>
<td>TBD</td>
<td>10=10m</td>
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<td>2=50/125/900</td>
<td>2=50/125/900</td>
<td>FA=FC/APC</td>
<td>FC2=Board Mount</td>
<td>B=102-10112 Panel</td>
<td>02=2m</td>
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<td>3=62.5/125/900</td>
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<td>SM=SMA 905</td>
<td>SC1=Panel Mount</td>
<td>C=102-10181 BdMt</td>
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<td>4=105/125/900</td>
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<td>SC=SC/PC</td>
<td>SC2=Panel or Board Mount</td>
<td>D=102-10198 BdMt</td>
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<td>5=200/240/900</td>
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<td>SA=SC/APC</td>
<td>ST7=Low Profile</td>
<td>W=Bracket Shipped Separately</td>
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<td>ST=ST/PC</td>
<td>ST8=Board/Panel Mount</td>
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PDSI Series Detectors for Fiber Optics
Silicon PIN Diodes

Typical Spectral Response

![Graph showing typical spectral response with wavelength (nm) on the x-axis and responsivity (A/W) on the y-axis.]

Typical Capacitance vs Reverse Bias

![Graph showing typical capacitance vs reverse bias with reverse voltage (V) on the x-axis and capacitance (pF) on the y-axis.]

PD-LD Inc. reserves the right to make modifications to or discontinue products without prior notice.

06/13 PDSI REV 5

PD-LD, Inc.
30-B Pennington-Hopewell Road, Pennington NJ 08534 TEL: 609-564-7900 FAX: 609-564-7901 E-MAIL: info@pd-ld.com
**NOTES:**

1. THESE DEVICES ARE ESD SENSITIVE. ESD PRECAUTIONS ARE ADVISED.
2. ALL DEVICES ARE SHIPPED WITH ESD LEAD PROTECTORS AND DUST COVERS.
3. ALL DEVICES WILL BE MARKED WITH A PD-LD SERIAL NUMBER.

⚠️ BRASS, NICKEL FLATED

⚠️ SS303
NOTES:
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Mechanical Drawing for Board Mount FC Receptacle
PDSIU500FC23-W-0

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