



PDSIB and PDSIJ Silicon PIN Photodiodes 3.2mm² Active Area

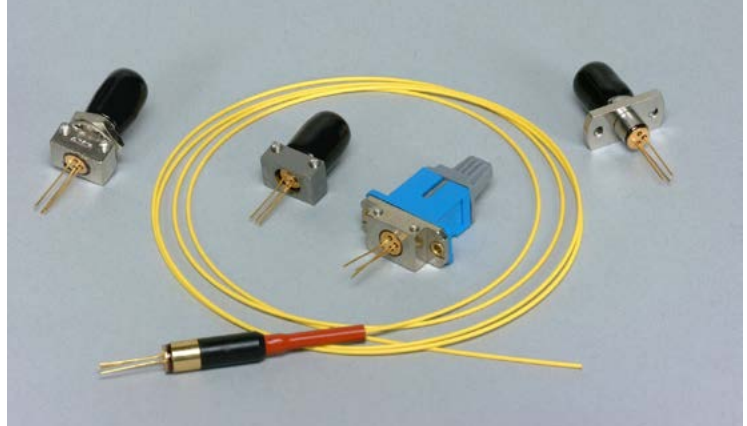
PD-LD offers 1.27mm X 2.54mm active area Silicon PIN Photodiodes in a variety of fiber coupled package styles. These PIN photodiodes exhibit response between 350nm and 1100nm but offer exceptional performance in the 800 to 1000nm range. Our standard devices have a 3.2mm² active area and are available in TO-18 cans that are hermetically sealed and available with either a 2 lead.

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 200micron. Larger core size fibers may require custom packaging. 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.

PD-LD Part Number	Pin-Out	Active Area (mm)	Responsivity (A/W) 970nm		Capacitance pF 0V and -10V Typ.	Dark Current -10V		NEP (W/ root Hz) -10V 970nm 50 Ohm	Rise Time (nsec) -10V 632nm typ
			Min.	Typ.		Min.	Max.		
PDSIB Series	2 Lead	1.27mm X 2.54mm	0.60	0.67	45 12	0.15	2.0	1.1 e ⁻¹⁴	10
PDSIJ Series	3 Lead								

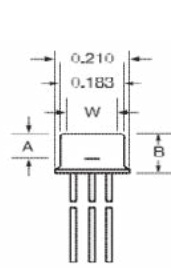
Absolute Maximums	
Operating Temperature	-40 to +85 °C
Storage Temperature	-55 to + 85 °C
Operating Current (0V)	10 mA
Reverse Voltage	30V

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

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Pinout & Mechanical Dimensions (inches)



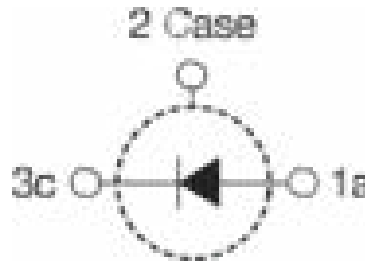
P/N	A	B
1710-13705-A	0.075 inches	0.200 inches

Lead diameters are 0.018 ± 0.002 inches
Lead length is 0.500 inch minimum



Pin Circle Dia.=0.100

Pin Out for 3 lead devices PDSIJ Series



Pin Out for 2 lead device PDSIB Series



Pin Circle Dia.=0.100

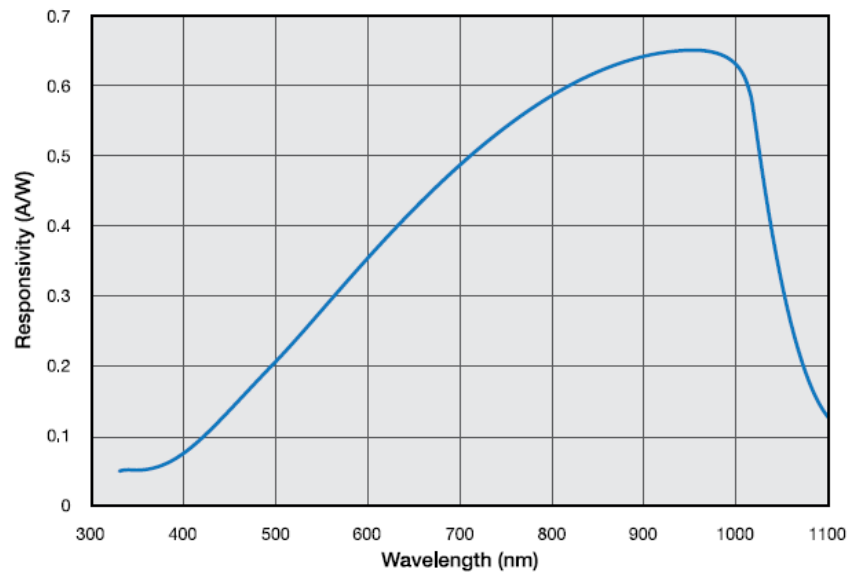


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Typical Spectral Response Curve



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**PDSIB and PDSIJ Silicon PIN Photodiodes
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PDMMCAAFFCCB-0-V-LL

P = PD-LD Product
D = Detector
MM=Material
C= Device Code

AAA = Active Area Size
F = Fiber Type

CC = Connector Type

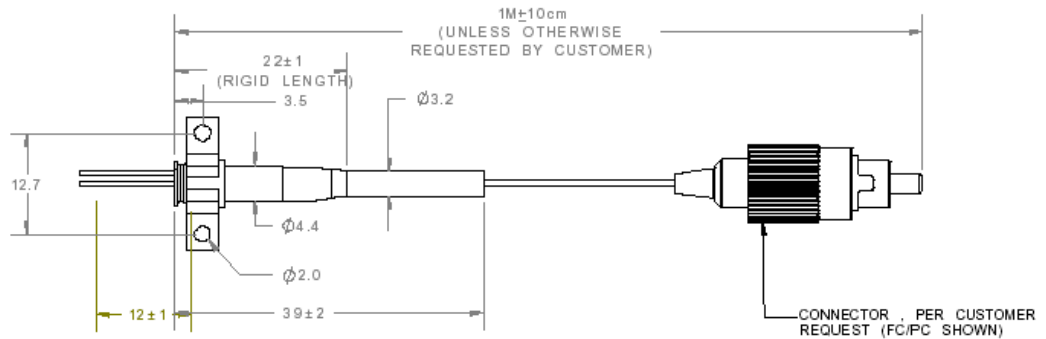
B = Bracket Type
O=Orientation
V=Version
LL = Length in meters

SI = Silicon PIN Photodiode
B= 2 Lead 1.27mm X 2.54mm Silicon PIN
J= 3 Lead 1.27mm X 2.54 mm Silicon PIN
3.2 = 3.2mm² Active Area
2= 50/125/900um
3= 62.5/125/900um
D= 105/125/900um
K= HI1060 Fiber 7/125/900
Other fiber types available upon request

FA= FC/APC
FC= FC/PC

A = None B = Panel Mount G = Board Mount
0 = no bracket R = Standard Orientation (may be customer specified)
0=Standard Unique Codes for specific requirements may be applied
01 = 1 m long pigtail

**Fiber Pigtailed Silicon PIN Photodiode
PDSIB3.2VFAA-0-0-01**



Shown with optional mounting bracket "G"

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