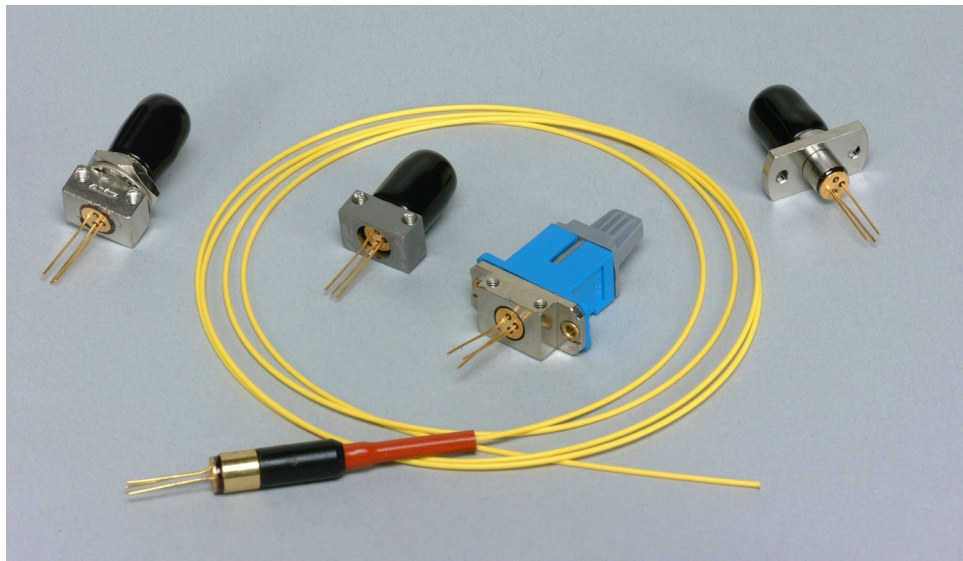




PD-LD offers Germanium Avalanche Photodiodes that are optimized for operation 950nm and 1600nm .Our standard 100um diameter active area devices are available in TO-18 cans that are hermetically sealed and in a variety of fiber coupled packages. These devices are designed for operation with breakdown voltages between 10 and 35 V .



**Pigtailing**

Devices may be pigtailed with any size optical fiber that is compatible with its active area size. For our 100um diameter devices 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.

PD-LD Part Number	Active Area (mm)	Dark Current Vr=Vtest uA max	Test Reverse Bias (Volts)	Max Reverse Voltage	Capacitance At 20 Vr max pF	Multiplied Dark Current Typ. M=1 Typ	Excess Noise Figure	Cut-off Frequency at Vr at 50 Ohms (Mhz)
PDGAJ1003FCA-0-0-01	0.1	1.0 (0.3 typ)	30	0.5	1.8	100	9	600

Detector Responsivity vs Wavelength (A/W)		
Wavelegth (nm)	Minimum	Typical
950	0.26	0.32
1300	0.76	0.84
1550	0.82	0.87

Absolute Maximums	
Operating Temperature	-10 to +60 °C
Storage Temperature	-40 to + 80 °C
Forward Current (0V)	100 mA
Reverse Current	1.0 mA

**Pinout & Mechanical Dimensions for Universal Receptacle (mm)**

