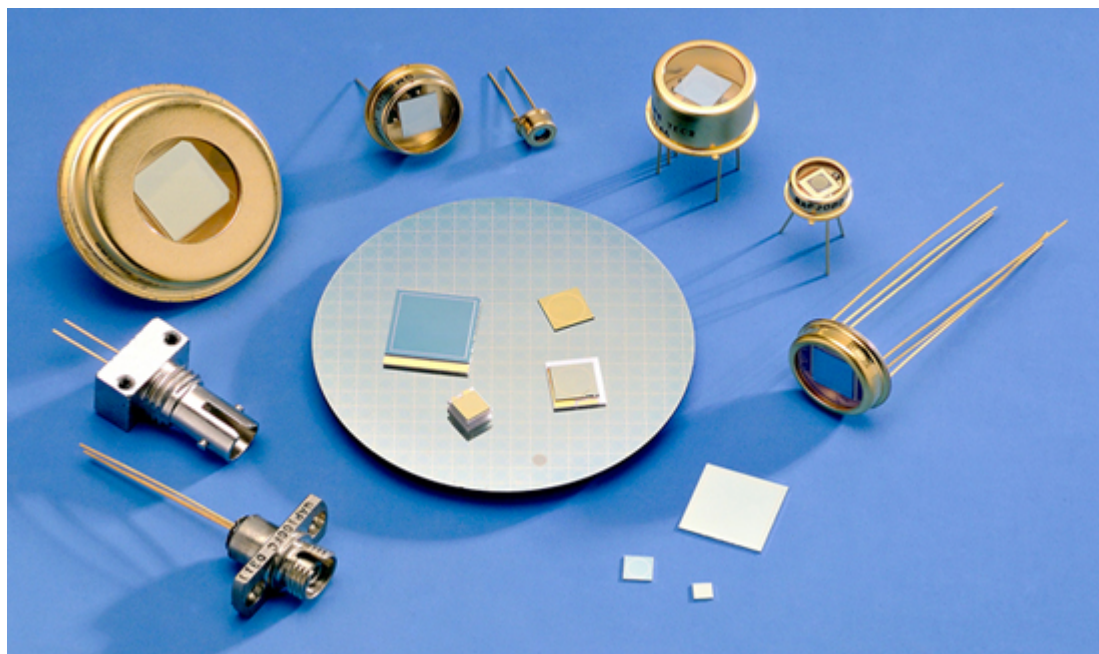


光电二极管

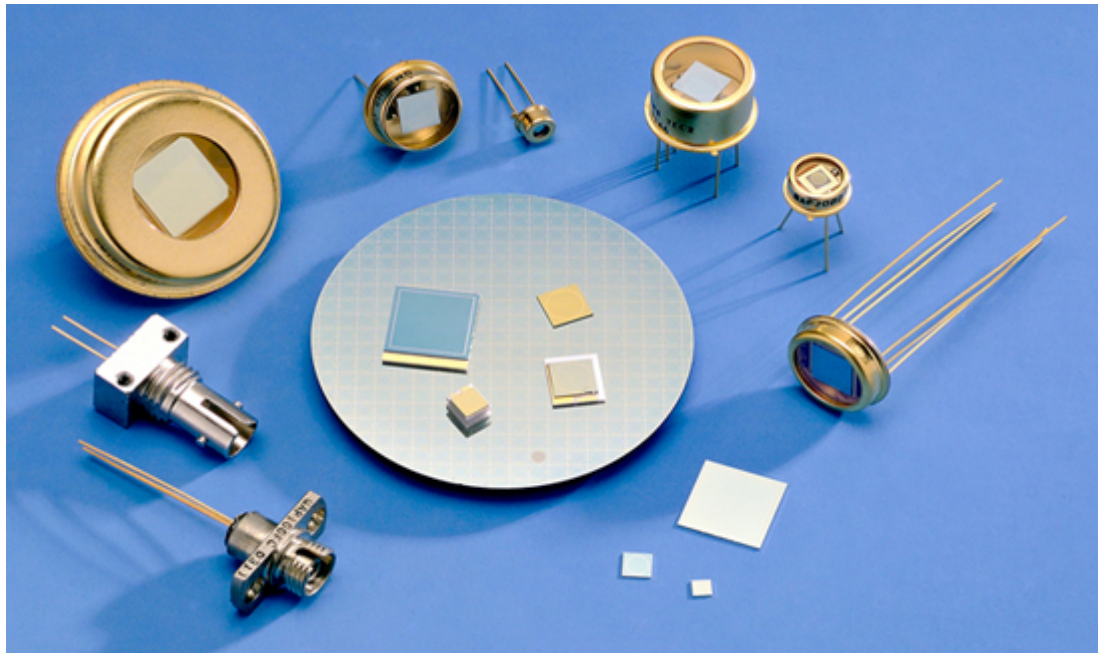
简介：GPD Optoelectronics 提供 Ge (p-n, p-i-n, APD), InGaAs 探测器，双波长探测器，自由空间和光纤输入，波长覆盖可见光到近红外。



- 低噪音近红外雪崩二极管
- 覆盖波段 900-1700nm
- 有效面积 20-350um
- 最大带宽 2Ghz
- 自由空间和光纤输入

一、 Ge 探测器

Ge Photodiodes



Features:

- Small and Large Diameter (100 μ m to 25mm)
- 800nm to 1800nm Spectral Response
- High Linearity > 10 dBm
- Multiple Lens Selection (Biconvex, Planoconvex, or Ball)
- Optical Filters (Neutral Density and Bandpass)
- Single Stage and Dual Stage Thermoelectric Cooling
- Quadrant Photodiodes
- Two-Color (Si/Ge) Sandwich Photodiodes
- Custom Packages Include: Fiber pigtail, Hi-Reliability Pigtail, Receptacle and Sub-mounts
- Packages (TO-46, TO-18, TO-5, TO-8, TO-9 or BNC)

Applications:

- Optical Power Meter (OPM)
- LED/LD Burn-In Diagnostics
- Spectroscopy
- LED/LD Characterization
- Eye-safe Laser Detection Sensor

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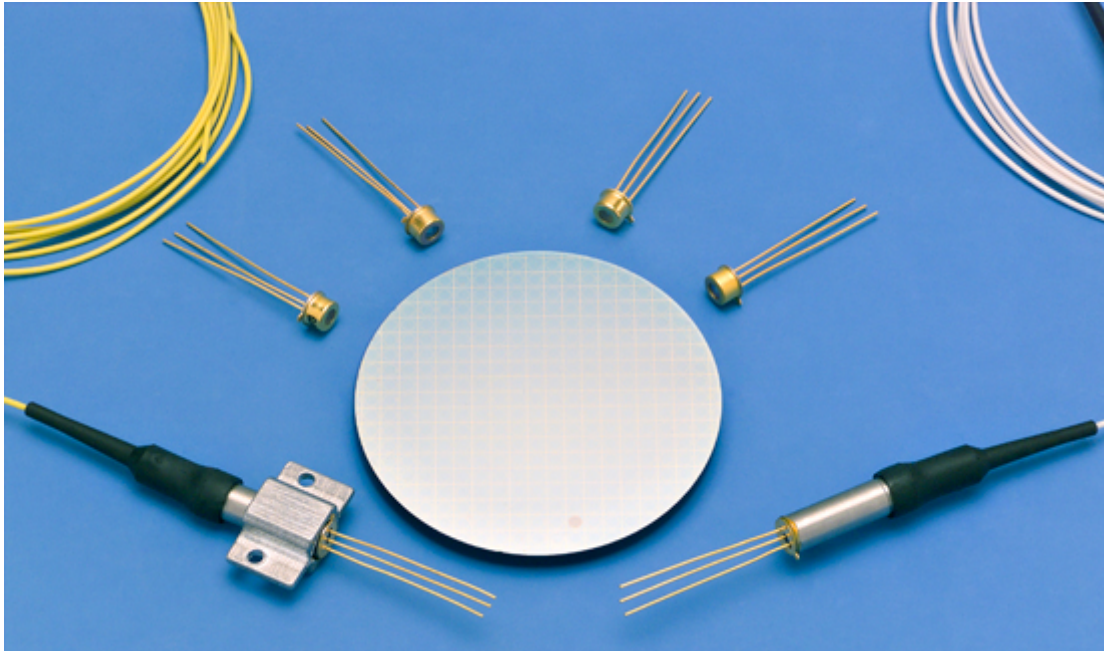
Tel/Fax: 021-64306513

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二、 Ge 雪崩探测器

Ge Avalanche Photodiodes



Features:

- Small Diameter (40 μ m)
- 800nm to 1800nm Spectral Response
- Linear and Geiger Mode Operation
- High Sensitivity
- Fiber Pigtail (Single or Multi Mode) including Hi-Reliability Pigtail
- Thermoelectric Cooling Available
- Packages (TO-46 and sub-mount)

Applications:

- Optical Time Domain Reflectometer (OTDR)
- Optical Communications
- Photon Counting

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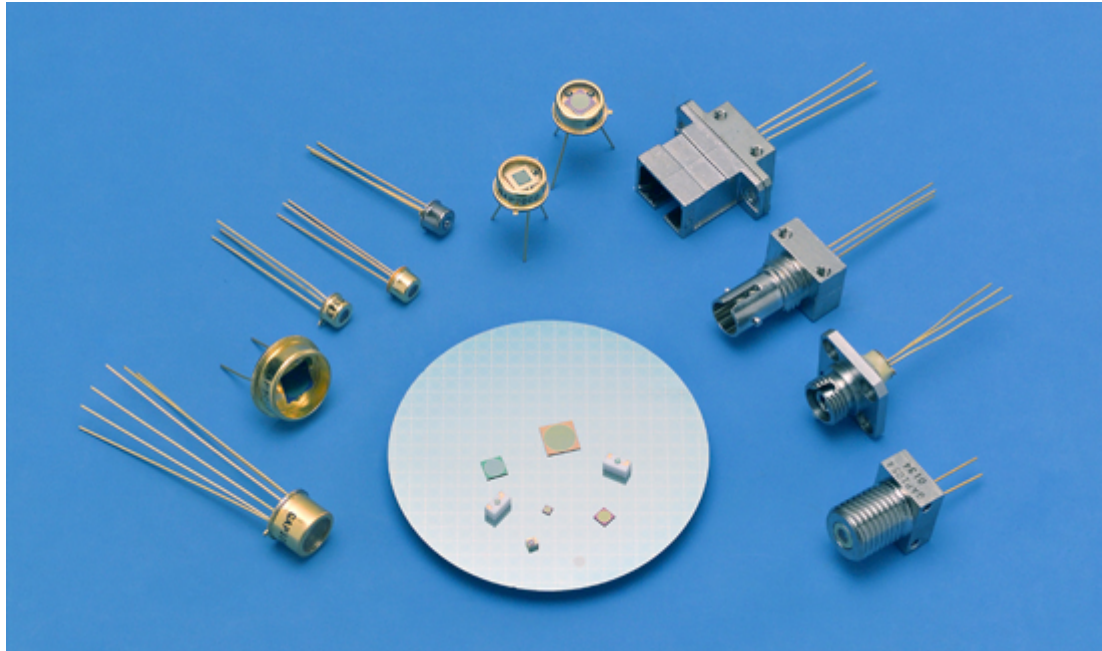
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三、 高速 InGaAs 光电二极管

High Speed InGaAs Photodiodes



Features:

- Small Diameter (60 μ m to 300 μ m)
- Cutoff Wavelength (1.7 μ m)
- Low Dark Current for High Sensitivity
- Low Capacitance for High Speed (2.5 GHz)
- Packages (TO-46) including Fiber Pigtail, Hi-Reliability Fiber Pigtail, Receptacle and Sub-mounts

Applications:

- Optical Communications
- Time Resolved Fluorescence Measurements
- LED/LD Temporal Characterization
- Laser Detection and Range Finder (LADAR)
- Light Detection and Ranging (LIDAR)
- Free Space Optics (FSO)

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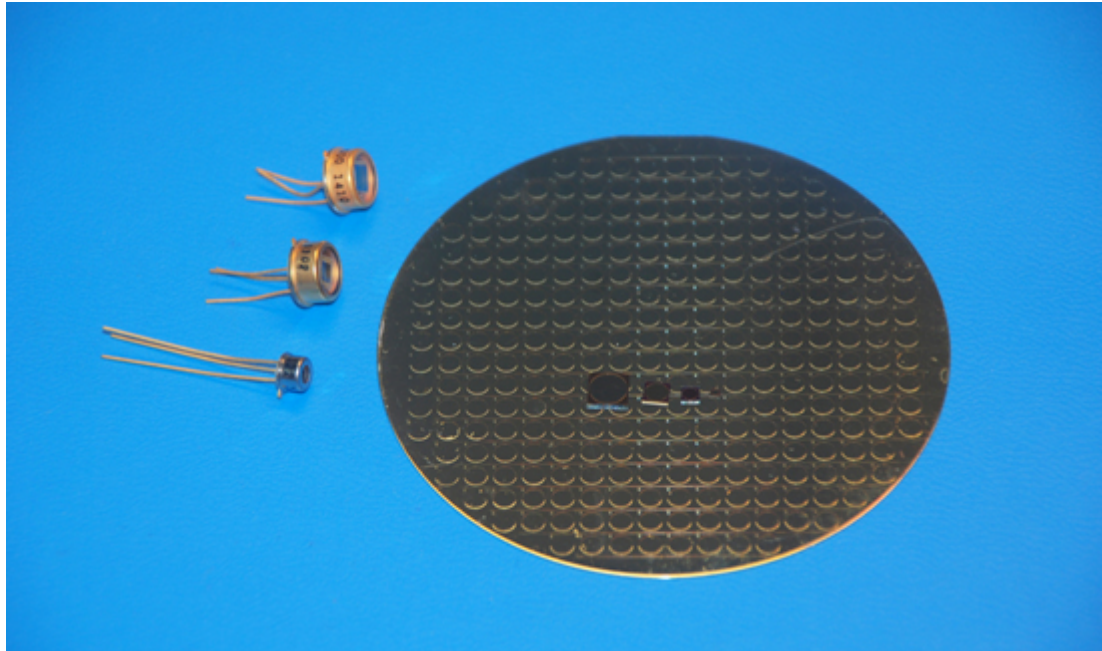
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四、 大面积 InGaAs 探测器

Large Area InGaAs Photodiodes



Features:

- Active Diameter (0.5mm to 5mm)
- Cutoff Wavelength ($1.7\mu\text{m}$)
- High Shunt Resistance for High Sensitivity
- Multiple Lens Selection (Biconvex, Planoconvex, or Ball)
- Optical Filters (Neutral Density and Bandpass)
- Packages (TO-46, TO-18, TO-5 or TO-8)

Applications:

- NIR Sensing/Radiometry
- LED/LD Characterization
- Medical Diagnostics
- Spectroscopy
- Raman Spectroscopy
- Spectroscopy
- Astronomy/Photometry

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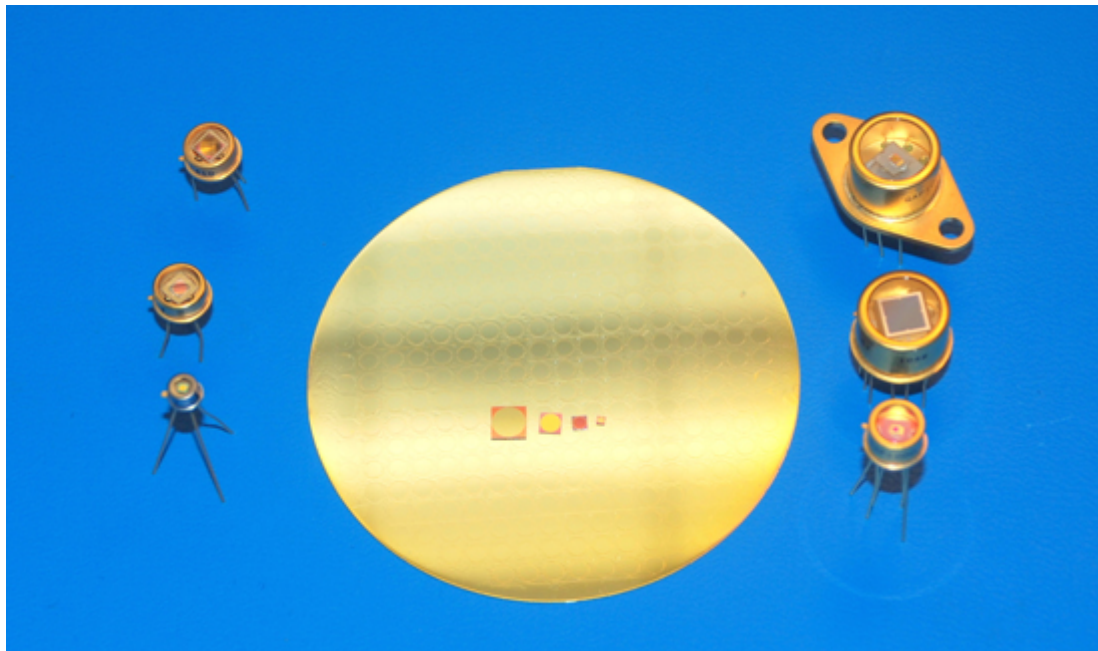
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五、延伸 InGaAs 光电二极管

Extended InGaAs Photodiodes



Features:

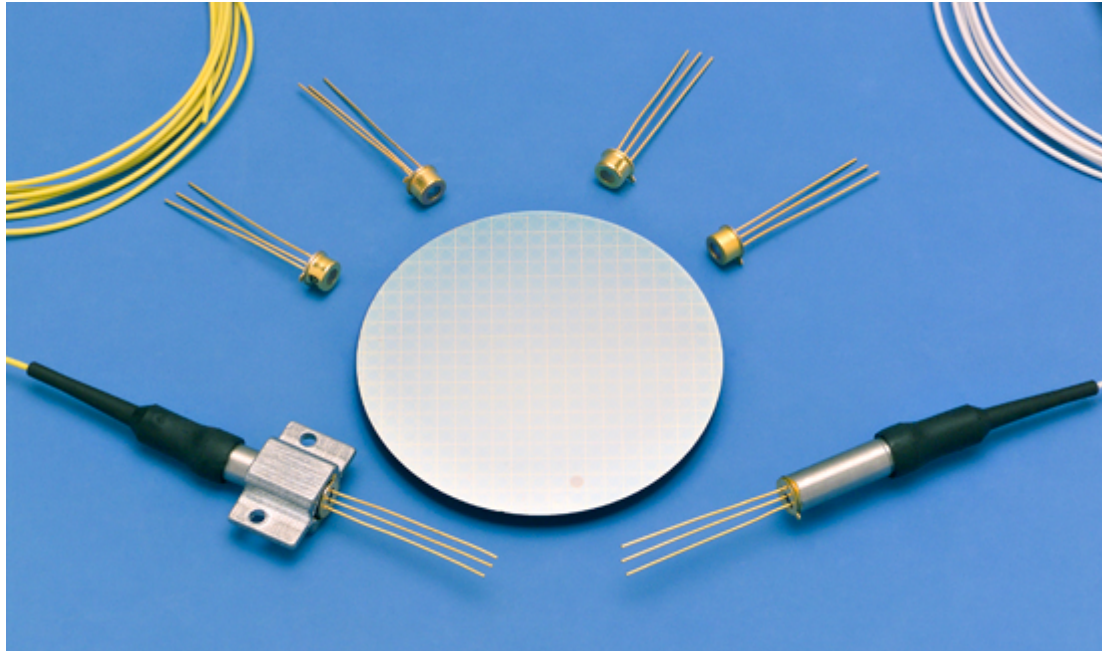
- Active Diameter (0.3mm to 3mm)
- Cut off Wavelength (1.9 μ m, 2.05 μ m, 2.2 μ m and 2.6 μ m)
- High Shunt Resistance
- Multiple Lens Selection (Biconvex, Plano convex, or Ball)
- Packages (TO-46, TO-18 or TO-5)

Applications:

- Gas Sensing Monitor
- Hydrocarbon Sensor
- Flame/Spark Detection
- FTIR
- Spectroscopy
- SWIR Photodetection

六、 InGaAs 雪崩光电二极管

InGaAs Avalanche Photodiodes



Features:

- Active Diameter (80 μ m to 350 μ m)
- 900nm to 1650nm Spectral Response
- Linear Operation
- Low Dark Current for High Sensitivity
- Low Capacitance for High Speed
- Fiber Pigtail (Single or Multi Mode) including Hi-Reliability or Hi-Rel Pigtail
- Packages (TO-46 and Sub-mount with Ball Lens Option)

Applications:

- Free Space Optics (FSO)
- LIDAR/LADAR
- High Sensitivity Photometry
- Optical Communications
- Optical Time Domain Reflectometer (OTDR)

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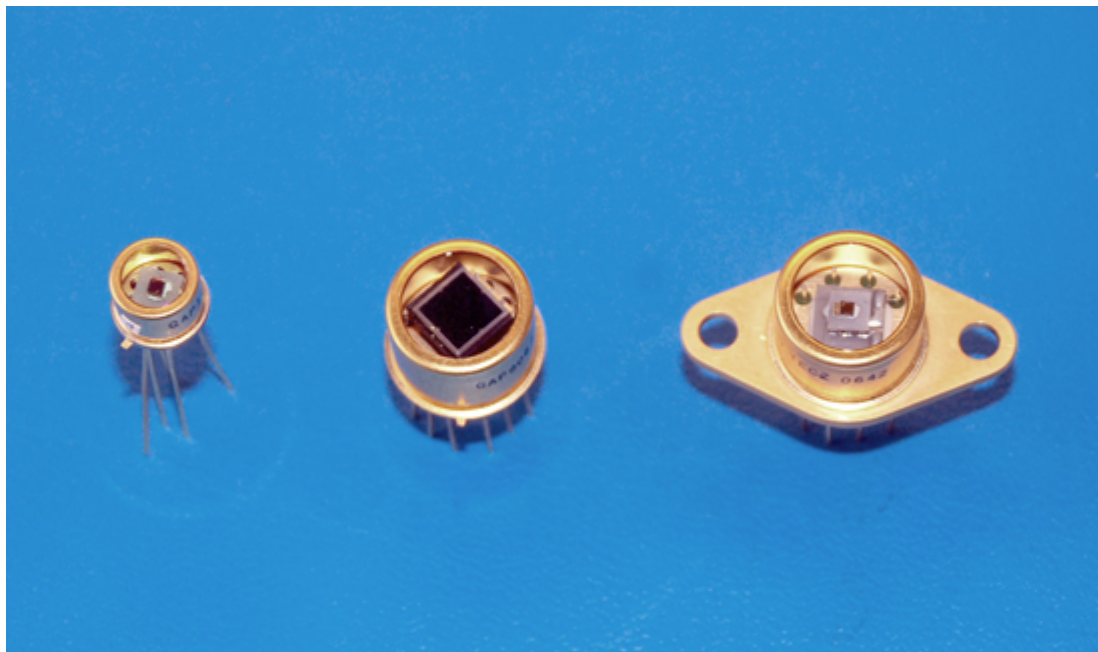
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七、热电冷却的 InGaAs 光电二极管

InGaAs Thermoelectric Cooled Photodiodes



Features:

- Single Stage or Dual Stage TE Cooler
- Active Area (0.3mm to 5mm)
- High Shunt Resistance
- Low Dark or Leakage Current
- High Sensitivity
- Cutoff Wavelength (1.7 μ m, 1.9 μ m, 2.05 μ m, 2.2 μ m and 2.6 μ m)
- Standard Package (TO-5, TO-8, TO-66)
- Custom Package with Fiber Pigtail, SMA Receptacle
- RoHS Compliant

Applications:

- NIR Photometry/Radiometry
- Spectroscopy
- Gas Sensing
- FTIR
- Raman Spectroscopy
- Medical Diagnostics

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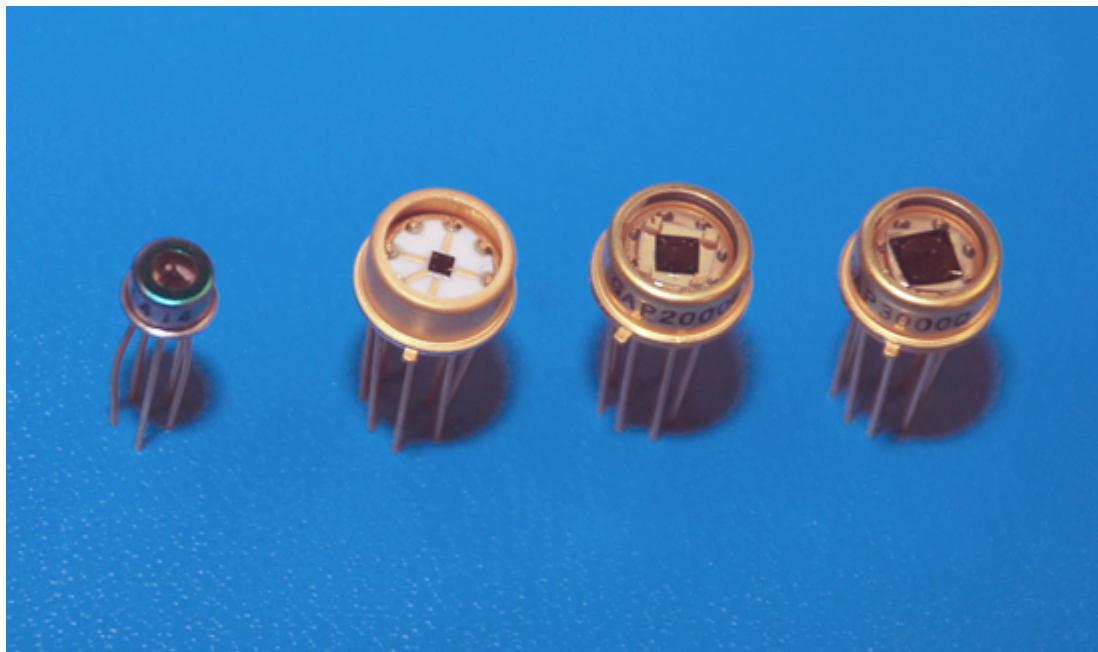
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八、InGaAs 象限光电二极管

InGaAs Quadrant Photodiodes

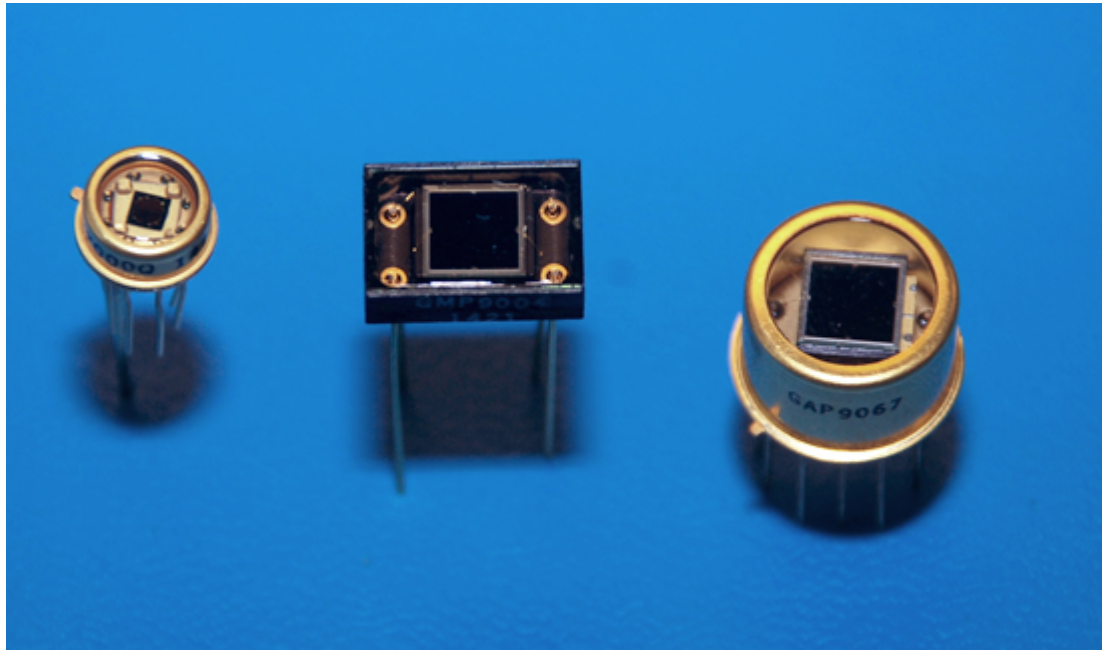


Features:

- 800nm to 1700nm Spectral Response
- Active Diameter (0.5mm, 1.0mm, 1.5mm, 2.0mm and 3.0mm)
- High Sensitivity
- Low Crosstalk
- High Shunt Resistance
- Low Dark Current
- Low Capacitance for High Segment Bandwidth
- Standard Package (TO-18 and TO-5)

Applications:

- Beam Alignment
- Laser Guidance
- Optical Tweezers
- Beam Profiling



Features:

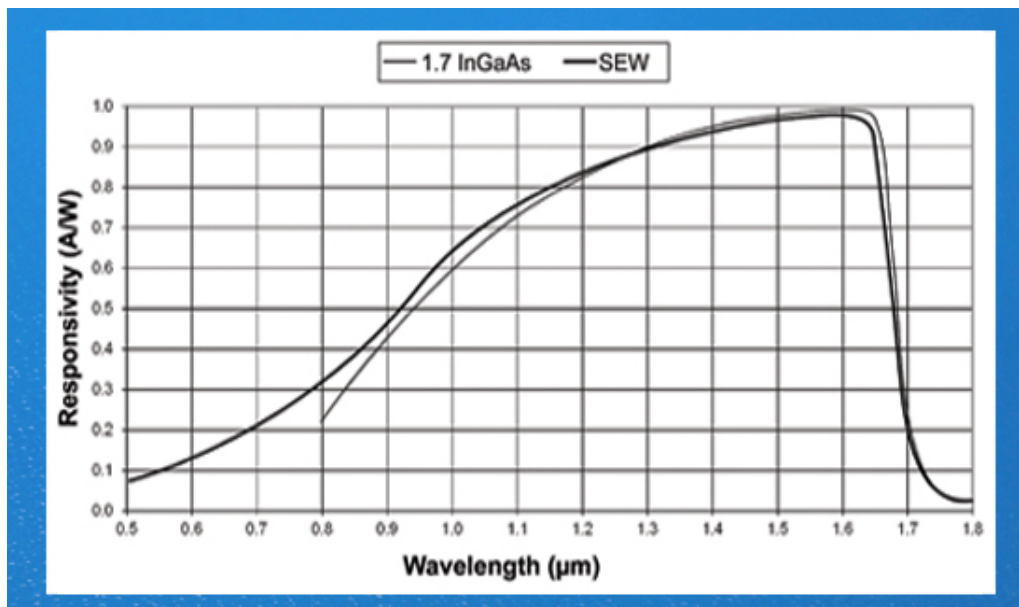
- Si over InGaAs ($1.7\mu\text{m}$, $2.05\mu\text{m}$, $2.2\mu\text{m}$ or $2.6\mu\text{m}$)
- Active Area Top Detector ($2.7\text{mm} \times 2.7\text{mm}^2$ or $5.7 \times 5.7\text{mm}^2$)
- Active Area Bottom Detector (1.0mm , 2.0mm or 3.0mm)
- InGaAs ($1.7\mu\text{m}$) over InGaAs ($1.7\mu\text{m}$, $2.05\mu\text{m}$, $2.2\mu\text{m}$ and $2.6\mu\text{m}$)
- Active Area Bottom Detector (1.0mm or 2.0mm)
- Standard Package (TO-5 and TO-8)

Applications:

- Optical Pyrometry
- Dual-Band Spectroscopy
- Flame Monitor
- Non-Contact Radiometry

十、InGaAs 可见/近红外光电二极管

InGaAs VIS/NIR Photodiodes



Features:

- Active Diameter (300 μm to 5 mm)
- 0.5 μm to 1.7 μm Spectral Response
- Linear Operation
- Low Dark Current for High Sensitivity
- Low Capacitance for High Speed
- Fiber Pigtails (Single or Multi Mode including Hi-Reliability (Hi-rel) Pigtail)
- Packages (TO-46, TO-18, TO-5, TO-8, Custom, Biconvex Lens and Sub-mount with Ball Lens Option)

Applications:

- Free Space Optics (FSO)
- LIDAR/LADAR
- High Sensitivity Photometry
- Optical Communications
- Optical Time Domain Reflectometer (OTDR)
- NIR Photometry/Radiometry
- Spectroscopy
- Gas Sensing
- FTIR
- Raman Spectroscopy
- Medical Diagnostics

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