

# Photodiode Comparison



AFE warrants products do not contain any Restricted Hazardous Substances as detailed in RoHS (2002/95/EC)

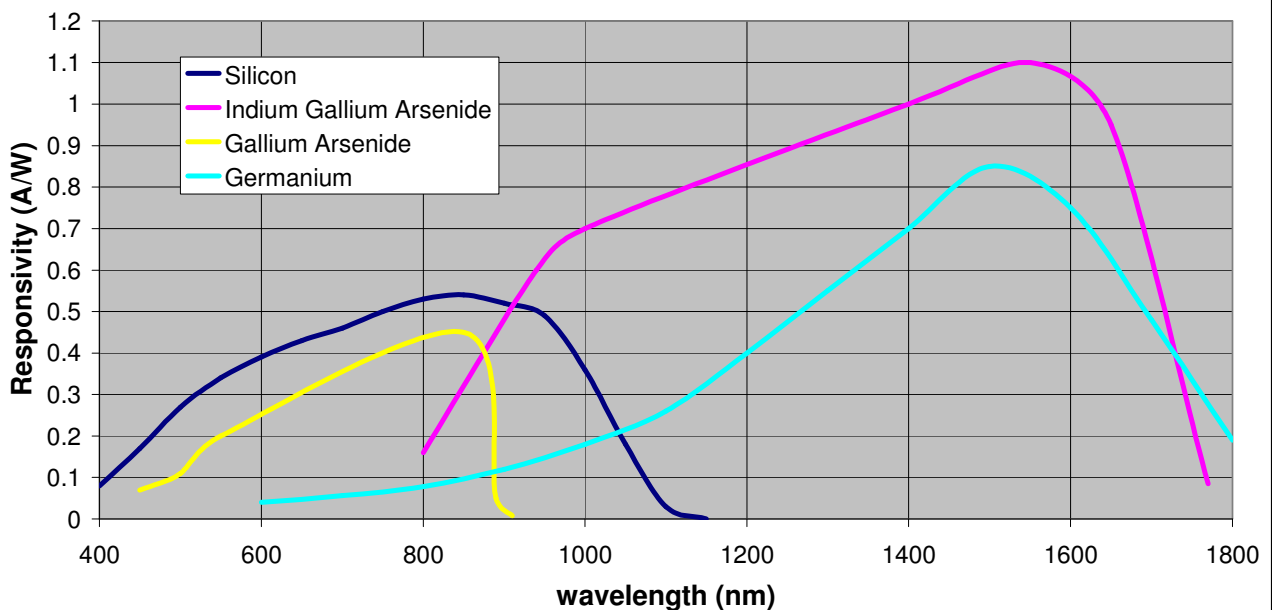
Wavelength responsivity of different semiconductor photodiodes

AFE offers a wide range of photodiodes suitable for both single mode and multimode optical fibre. The illustration below shows the wavelength responsivity in A/W of the four most common semiconductor photodiodes.

For high speed and low noise a small active area is required, whereas for high coupling efficiency and reproducible coupling a larger active area can be preferable.

Any of our photodiodes can be supplied either fibre pigtailed or in receptacle form

## Wavelength Response of Different Semiconductor Photodiodes



|         |  |
|---------|--|
| GaAs:   | Excellent for visible light and 850nm. Higher speeds                     |
| Si :    | Works from 300nm to 1150nm (peak responsivity at 800nm). Very low noise. |
| Ge:     | Works from 600nm to 1800nm (peak at 1550 nm). Higher noise.              |
| InGaAs: | Works from 1000nm to 1700 nm (peak at 1700 nm). Relatively low noise     |

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