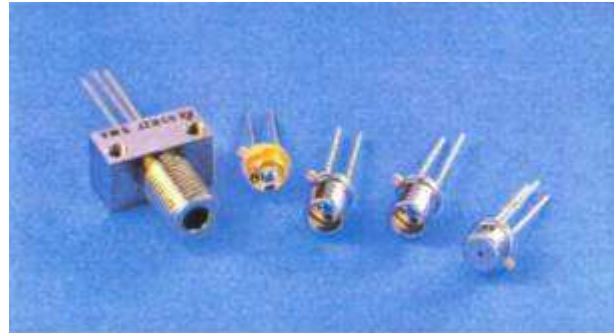


Silicon Photodetector

BPX65 Series

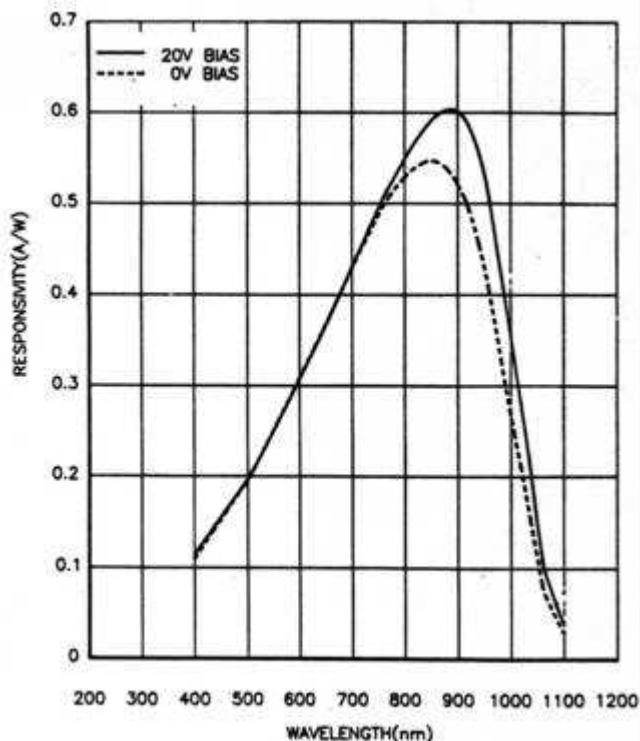
The BPX65 family of detectors feature Centronic's 1mm² high speed, high sensitivity chip already successful in a wide variety of applications. The chip can be packaged in various forms suitable for fibre-optic communication, such as the AX65-RF (precisely centred, isolated, low chip to window spacing) a standard 2 or 3 lead TO18 or even epoxy encapsulated. It has also been used for encoder designs and with MIL SPEC release at the heart of advanced laser warning systems.



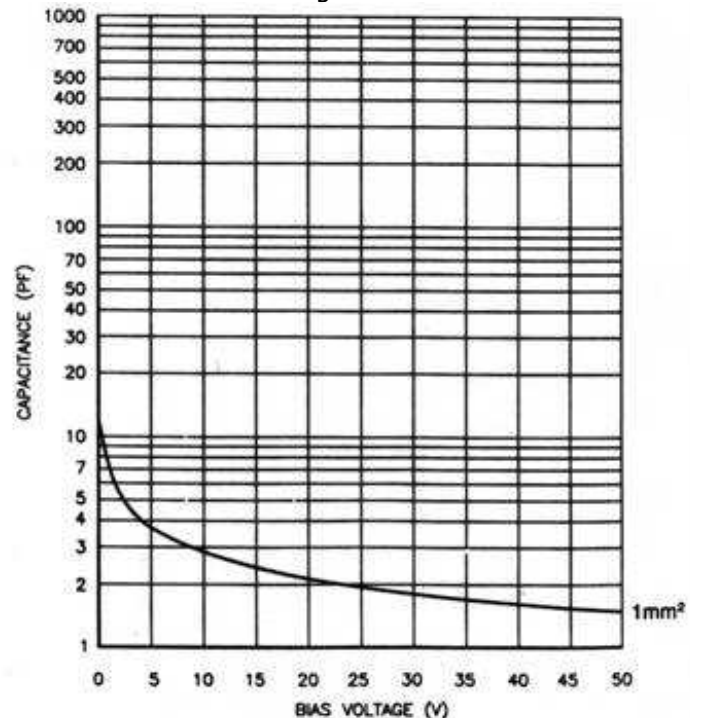
ABSOLUTE MAXIMUM RATINGS

| | Max. Rating |
|---|--------------------|
| DC Reverse Voltage | 50V |
| Peak Pulse Current (1 μ s, 1% duty cycle) | 200mA |
| Peak DC Current | 10mA |
| Illumination level for saturation | 5W/cm ² |
| Storage Temperature Range | -55°C to + 125°C |
| Operating Temperature Range | -55°C to + 120°C |
| Soldering Temperature Range | 200°C |

Series BPX65 – Typical Spectral Response



Series BPX65 – Typical Capacitance versus Bias Voltage



Electrical / Optical Specifications

Characteristics measured at 22°C (±2) ambient.

Single Elements BPX65 Series

| Type No. | Active Area | | Responsivity A/W $\lambda = 900 \text{ nm}$ | | Dark Current nA | | NEP $\text{WHz}^{-1/2}$ $\lambda = 900 \text{ nm}$ | Capacitance pF | | Risetime ns $\lambda = 820 \text{ nm}$ $R_L = 50 \Omega$ | Package |
|----------|-----------------|----------|--|------|--------------------|------|---|-----------------|------------------|--|---------|
| | mm ² | mm | Min. | Typ. | Max. | Typ. | Typ. | Vr = 0V Max. | Vr = 20V Max. | Typ. | |
| BPX65 | 1 | 1 x 1 mm | 0.52 | 0.55 | 5 | 1 | 3.3×10^{-14} | 20 | 3.5 | 3.5 | TO18 |
| AX65R2F | 1 | 1 x 1 mm | 0.52 | 0.55 | 5 | 1 | 3.3×10^{-14} | 20 | 3.5 | 3.5 | TO46 |
| BPX65RT | 1 | 1 x 1 mm | 0.52 | 0.55 | 5 | 1 | 3.3×10^{-14} | 20 | 3.5 | 8 | TO18 |
| X65EB | 1 | 1 x 1 mm | 0.52 | 0.55 | 5 | 1 | 3.3×10^{-14} | 20 | 3.5 | 3.5 | 1B |

Highlighted items are Centronic standard products generally available from stock

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