

## High Speed Detectors (BPX65)



The BPX65 family of detectors feature Centronic's 1mm<sup>2</sup> 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.

### Electrical / Optical Specifications

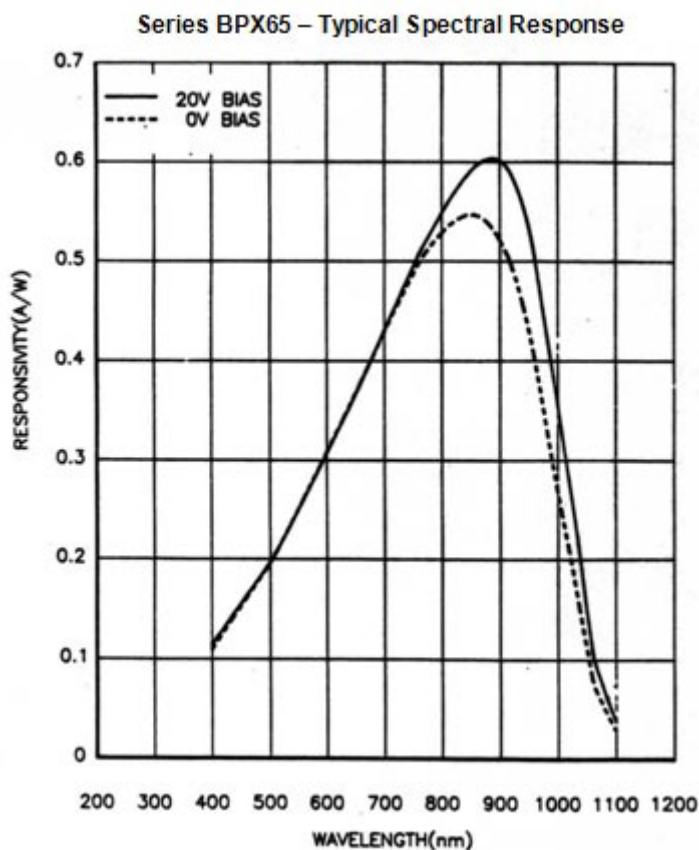
Characteristics measured at 22°C (±2) ambient, and a reverse bias of 12 volts, unless otherwise stated.

#### Single Elements

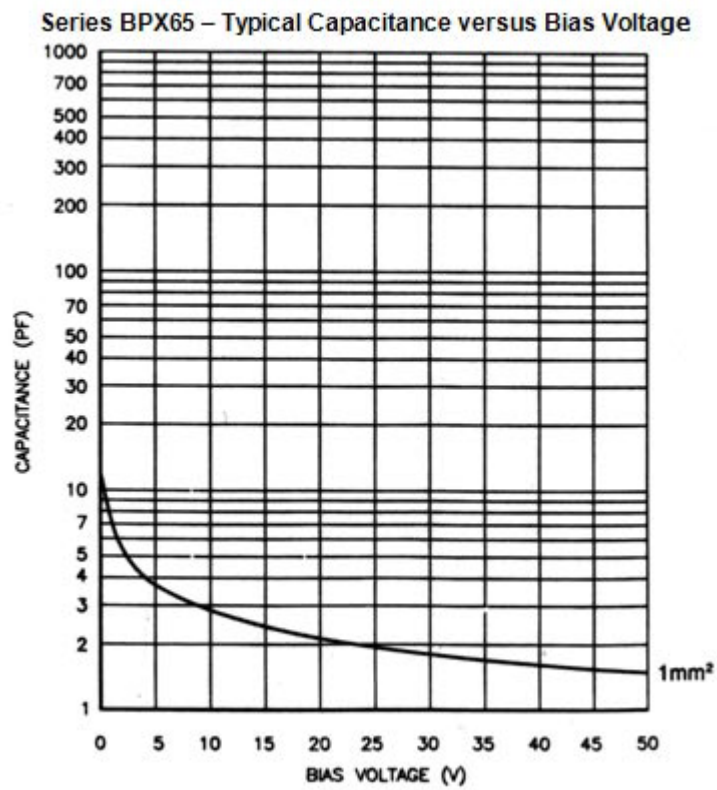
Type No.	Active Area		Responsivity A/W $\lambda = 900 \text{ nm}$		Dark Current (nA)		NEP $\text{WHz}^{-1/2}$ $\lambda = 900 \text{ nm}$ Typ.	Capacitance pF		Risetime ns $\lambda = 820 \text{ nm}$ RL = 50 $\Omega$ Typ.	Package
	mm <sup>2</sup>	mm	Min.	Typ.	Max.	Typ.		Vr=0 V Max.	Vr=20V Max.		
BPX65	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	3.5	1
BPX65T	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	13	1
AX65R2F	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	3.5	2A
BPX65RT	1	1 x 1 mm	0.52	0.55	5	1	3.310e-14	20	3.5	8	2
X65EB	1	1 x 1 mm	0.52	0.52	5	1	3.310e-14	20	3.5	3.5	1B

Highlighted items are Centronic standard products generally available from stock

## Series BPX Spectral Response Graph



## Capacitance versus Bias Voltage



*Due to our policy of continued development, specifications are subject to change without notice.*

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