

Fiberoptic Receiver

BPX65-100

Spectral Range

400nm – 1000nm

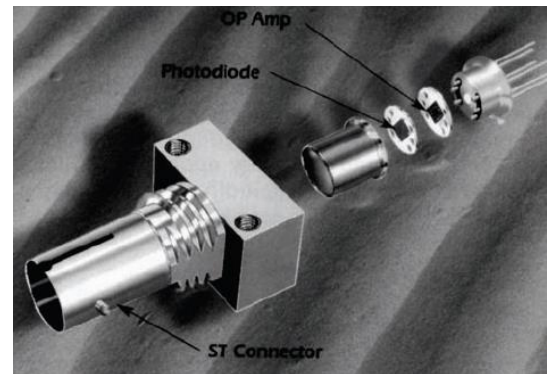
Features

- 140 MHz Bandwidth
- 14 k Ω Differential Transresistance
- 400nm to 1000nm Spectral Range
- 2.5 pA $\sqrt{\text{Hz}}$ Transimpedance Amplifier

Applications

- 100 Mbs Optical Communications
- Fiber Patchcord Coupling
- Silicon-based Optical Receivers

The BPX65-100 receiver contains a BPX-65 ultra high speed photodiode coupled to an NE5212 (Signetics) transimpedance amplifier. Standard products include ST and SMA connector versions.



Receiver Data (at 25°C)

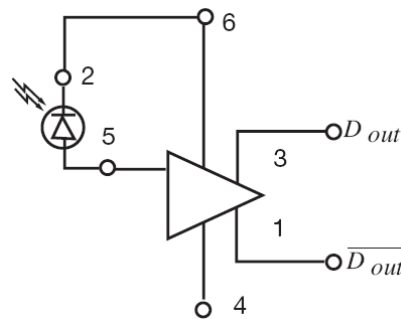
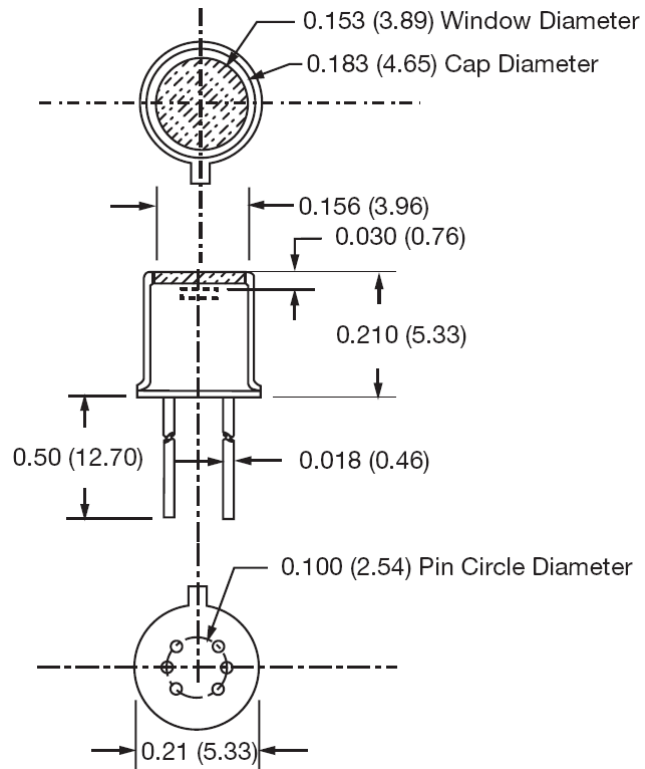
Model Number	Fiber Connector	Power Supply	Detector Responsivity $\lambda = 850 \text{ nm}$	Amplifier Gain	Max Data Rate
BPX65-100	None	5V	0.5 A/W	14 k Ω	100 Mbps
BPX65-100ST	ST				
BPX65-100SMA	SMA				

Absolute Maximum Ratings

	Max	Units
Maximum Voltage	6	V
Operating Temperature Range	-20 to +70	$^{\circ}\text{C}$

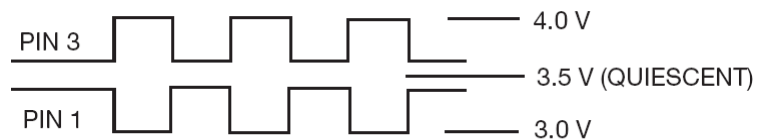


Dimensions



Pin Designations

- 1 - $\overline{D out}$
- 2 - Cathode
- 3 - $D out$
- 4 - Ground
- 5 - Anode
- 6 - Vcc (5 V)



OUTPUT WAVEFORMS (NOMINAL VALUES)