# **Fiber Optic Detector**

## **OPF432**

## **Features:**

- High speed, low capacitance •
- Popular ST<sup>®</sup> style receptacle •
- Pre-tested with fiber to assure performance
- Component pre-mounted and ready to use
- 100MHz operation minimum •

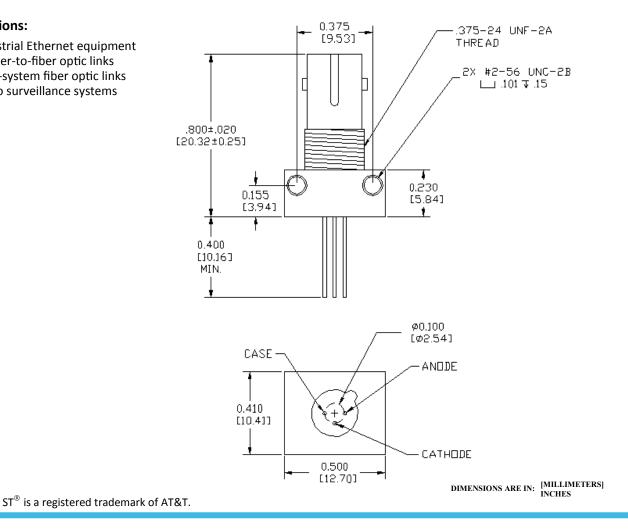
#### **Description:**

The OPF432 is a low noise silicon PIN photodiode mounted in a low cost package for fiber optic applications. It offers fast response at moderate bias and is compatible with LED and laser diode sources in the 800-1000 nm wavelength region. Low capacitance improves signal to noise performance in typical short haul LAN applications.

The OPF432 is designed to be compatible with multimode optical fibers from 50/125 to 200/300 microns.

### **Applications:**

- Industrial Ethernet equipment
- Copper-to-fiber optic links
- Intra-system fiber optic links
- Video surveillance systems





#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

OPTEK Technology, Inc. 1645 Wallace Drive, Carrollton, TX 75006 Ph: +1 972 323 2200 www.optekinc.com | www.ttelectronics.com





# **Fiber Optic Detector**

## OPF432



## **Electrical Specifications**

Absolute Maximum Ratings (T <sub>A</sub> = 25° C unless otherwise noted)	
Storage Temperature Range	-55° C to +125° C
Operating Temperature Range	-40° C to +100° C
Lead Soldering Temperature <sup>(1)</sup>	260° C
Continuous Power Dissipation <sup>(2)</sup>	200 mW
Maximum Reverse Voltage	100 VDC

#### Electrical Characteristics (T<sub>A</sub> = 25° C unless otherwise noted) SYMBOL PARAMETER MIN TYP MAX UNITS **TEST CONDITIONS** R Responsivity 0.45 0.55 A/W $V_R$ = 5.0V; 50/125µm fiber; $\lambda$ = 850nm $V_{R} = 5.0V$ **Dark Current** 0.1 5.0 nA $I_D$ 905 λp Peak Response Wavelength nm 2.0 $V_{\text{R}}$ = 5V; $R_{\text{L}}$ = 50 $\Omega$ , 10%-90% $t_{\rm r}$ **Output Rise Time** ns 2.0 $V_R = 5V$ Ст 1.5 pF **Total Capacitance**

Notes:

1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.

2. De-rate linearly at 2.13mW/°C above 25°C .

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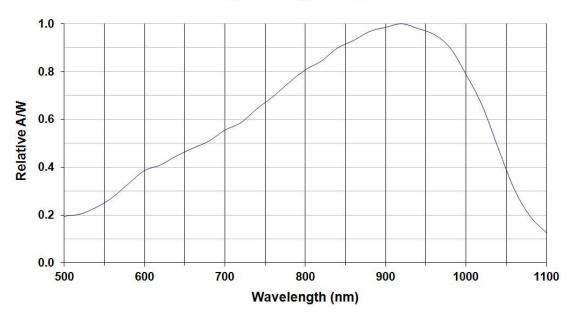
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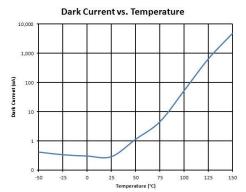
## OPF432

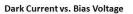


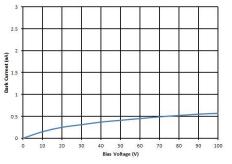
## Performance

## **Typical Responsivity**

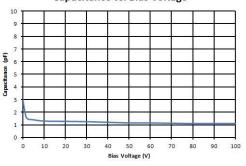








Capacitance vs. Bias Voltage



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