Fiber Optic Detector

OPF472

Features:

- High speed, low capacitance
- Popular ST[®] style receptacle •
- Pre-tested with fiber to assure performance
- Component pre-mounted and ready to use
- 35MHz operation minimum •

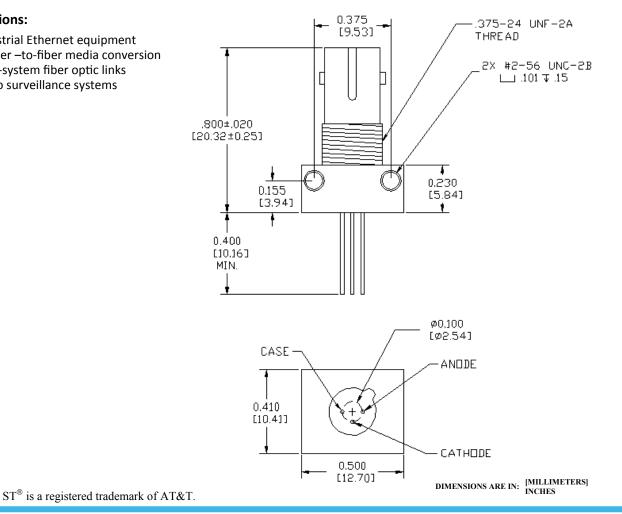
Description:

The OPF472 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 OPF472 is designed to be compatible with multimode optical fibers from 50/125 to 200/300 microns.

Applications:

- Industrial Ethernet equipment
- Copper -- to-fiber media conversion
- 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





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Electrical Specifications

Absolute Maximum Ratings (T _A = 25° C unless otherwise noted)			
Storage Temperature Range	-55° C to +100° C		
Operating Temperature Range	-40° C to +85° C		
Lead Soldering Temperature ⁽¹⁾	260° C		
Continuous Power Dissipation ⁽²⁾	200 mW		
Maximum Reverse Voltage	100 VDC		

Electrical Characteristics (T _A = 25° C unless otherwise noted)							
SYMBOL	PARAMETER	MIN	ТҮР	МАХ	UNITS	TEST CONDITIONS	
R	Responsivity	0.45	0.55		A/W	V_{R} = 5.0V; 50/125 μm fiber; λ = 850nm	
Ι _D	Dark Current		0.1	5.0	nA	V _R = 5.0V	
λ_p	Peak Response Wavelength		905		nm		
t _r	Output Rise Time		6.0		ns	V_{R} = 15V; R_{L} = 50 Ω , 10%-90%	
C _T	Total Capacitance		3.0		pF	V _R = 20V	

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 2.67mW/°C above 25°C .

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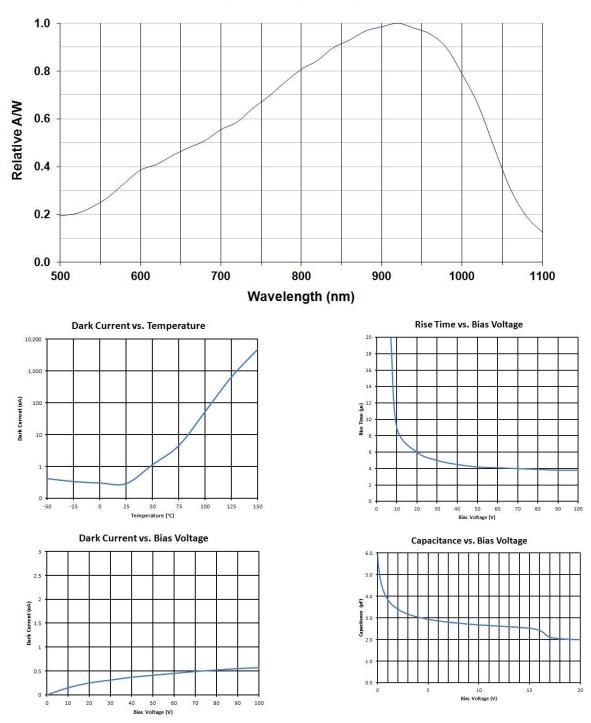
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Performance

Typical Responsivity



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