Fiber Optic Detector

OPF432



Features:

- High speed, low capacitance
- Popular $\operatorname{ST}^{\mathbb{R}}$ style receptacle
- Pre-tested with fiber to assure performance
- Component pre-mounted and ready to use
- 100MHz operation minimum



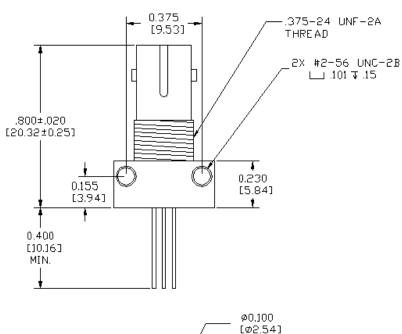
Description:

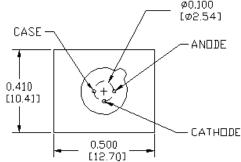
The OPF432 is a low noise silicon PIN photodiode mounted in a low cost package for fiber optic applications. It offers fast response at moderate bias and is compatible with LED and laser diode sources in the 800-1000 nm wavelength region. Low capacitance improves signal to noise performance in typical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





[MILLIMETERS] INCHES DIMENSIONS ARE IN:



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considered accurate at time of going to print.

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Electrical Specifications

Absolute Maximum Ratings (T _A = 25° C unless otherwise noted)				
Storage Temperature Range	-55° C to +125° C			
Operating Temperature Range	-40° C to +100° 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	TYP	MAX	UNITS	TEST CONDITIONS	
R	Responsivity	0.45	0.55		A/W	$V_R = 5.0V$; 50/125µm fiber; $\lambda = 850$ nm	
I _D	Dark Current		0.1	5.0	nA	V _R = 5.0V	
λ_{p}	Peak Response Wavelength		905		nm		
t _r	Output Rise Time		2.0		ns	V _R = 5V; R _L = 50W, 10%-90%	
C _T	Total Capacitance		1.5	2.0	pF	V _R = 5V	

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.

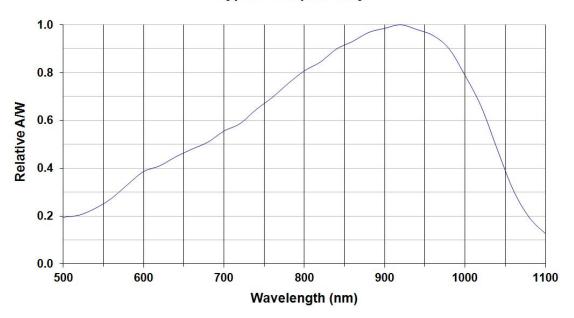
Fiber Optic Detector

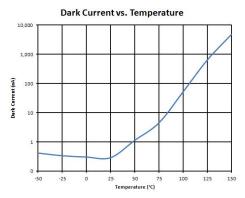
OPF432

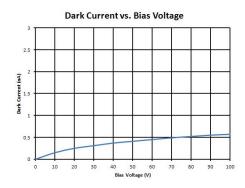


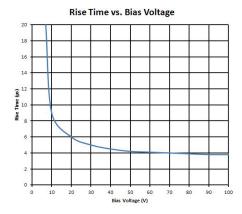
Performance

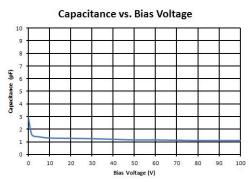
Typical Responsivity











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