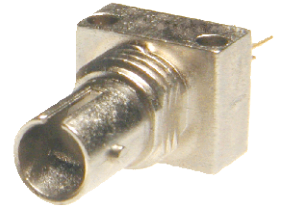


Fiber Optic Detector

OPF482



Features:

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

Description:

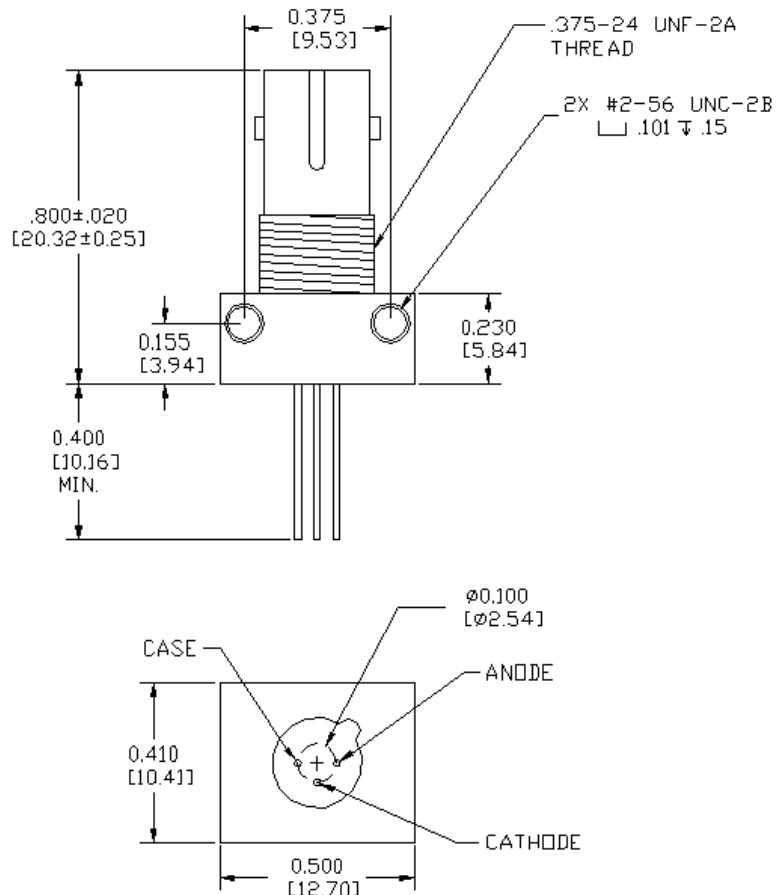
The OPF482 is a low noise silicon PIN photodiode mounted in a low-cost ST® package for fiber optic applications. It offers fast response at moderate bias and is compatible with LED and laser diode sources in the 800-1000 nm wavelength region. Low capacitance improves signal to noise performance in typical short haul LAN applications.

The OPF482 is designed to be compatible with multimode optical fibers from 50/125 to 200/230 microns.

OPF482 receivers are supplied with a lock washer, jam nut, #2-56 mounting screws and dust cap.

Applications:

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



RoHS

ST® is a registered trademark of AT&T.

[MILLIMETERS]
DIMENSIONS ARE IN: INCHES

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.

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Electrical Specifications

Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ 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 ($T_A = 25^\circ\text{C}$ unless otherwise noted)

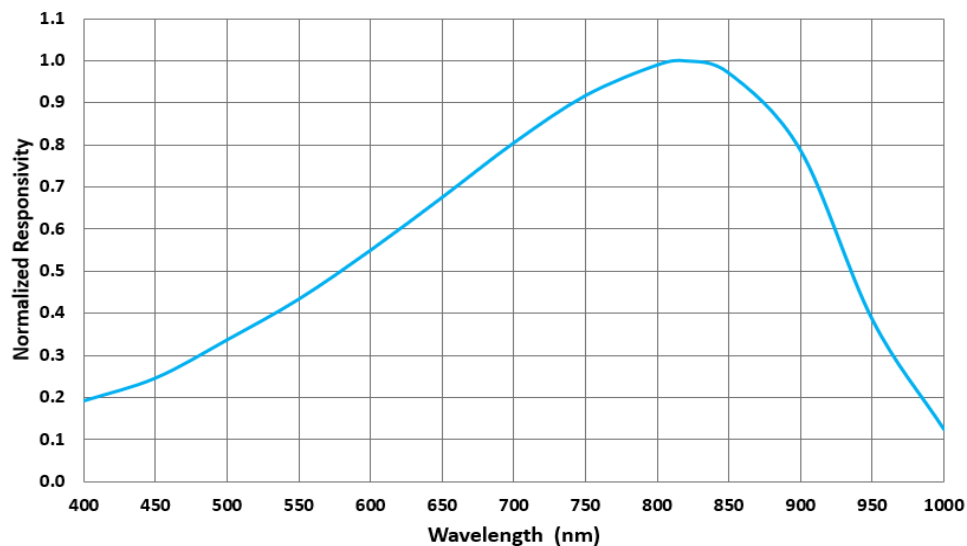
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
R	Responsivity	0.45	0.55	-	A/W	$V_R = 5.0\text{ V}$; 50/125 μm fiber; $\lambda = 850\text{ nm}$
I_D	Dark Current	-	0.1	5.0	nA	$V_R = 5.0\text{ V}$
λ_p	Peak Response Wavelength	-	820	-	nm	
t_r	Output Rise Time	-	2.0	-	ns	$V_R = 5\text{ V}$; $R_L = 50\ \Omega$, 10%-90%
C_T	Total Capacitance	-	1.5	2.0	pF	$V_R = 5\text{ V}$

Notes:

- (1) Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.
- (2) Derate linearly at 2.67 mW/°C above 25° C.

Typical Performance

Responsivity vs Wavelength

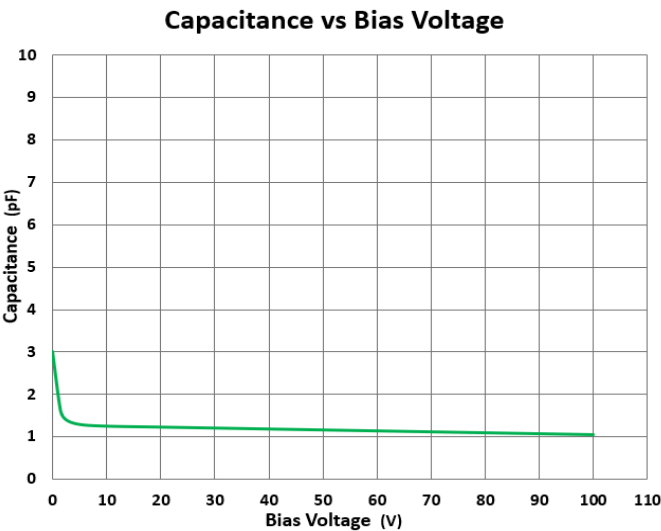
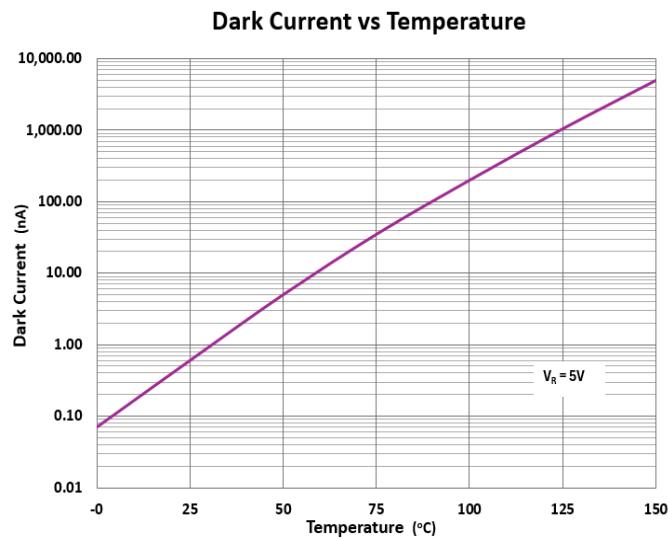
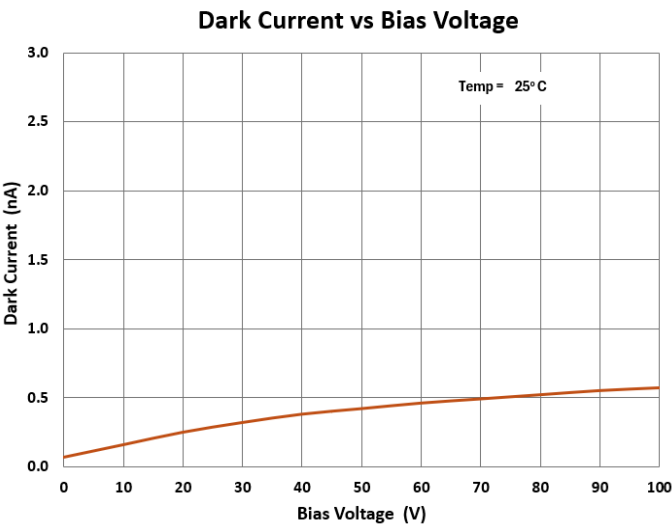


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Typical Performance



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