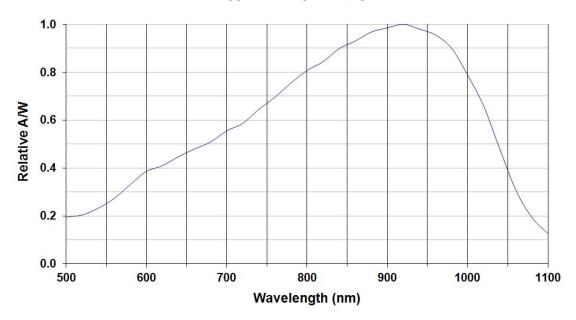
Fiber Optic Detector OPF472 OPF472 High speed, low capacitance Popular ST[®] style receptacle Pre-tested with fiber to assure performance Component pre-mounted and ready to use 35MHz operation minimum

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



Typical Responsivity

ST[®] is a registered trademark of AT&T.

OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.





Absolute Maximum Ratings $T_A = 25^{\circ}$ 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

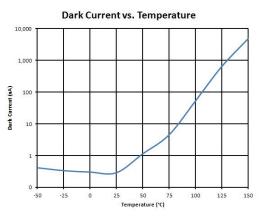
Electrical/Optical Characteristics (T_A = 25°C unless otherwise noted)

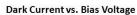
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
R	Responsivity	0.45	0.55		A/W	V_{R} = 5.0V; 50/125µm fiber; λ = 850nm
I _D	Dark Current		0.1	5.0	nA	V _R = 5.0V
λ_p	Peak Response Wavelength		905		nm	
tr	Output Rise Time		6.0		ns	$V_R = 15V; R_L = 50\Omega, 10\%-90\%$
CT	Total Capacitance		3.0		pF	V _R = 20V

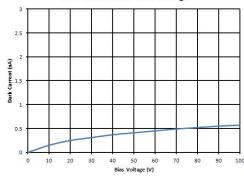
Notes:

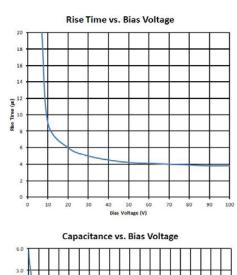
1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.

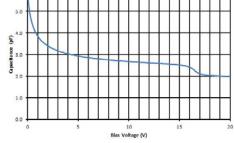
2. De-rate linearly at 2.67mW/°C above 25°C .









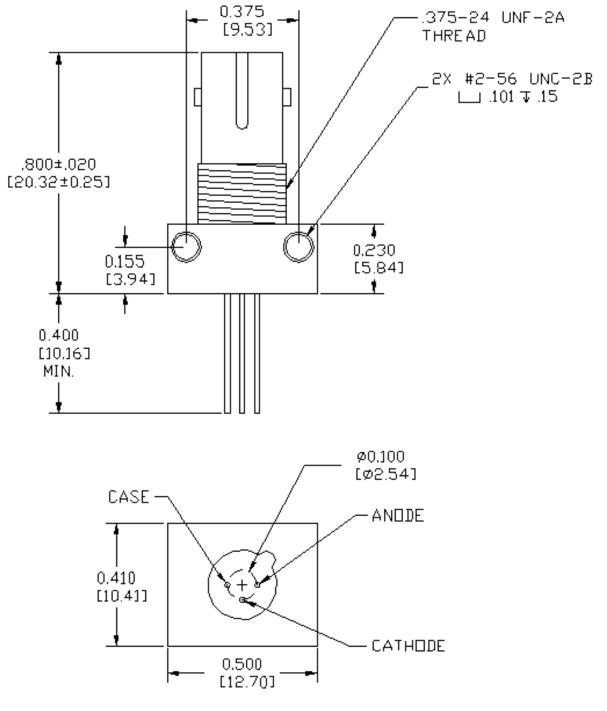


OPTEK Technology Inc.- 1645 Wallace Drive, Carrollton, Texas 75006 Phone: (800) 341-4747 FAX: (972) 323-2396 sensors@optekinc.com www.optekinc.com

> in order to improve design and to supply the best product possible.



Mechanical Data



DIMENSIONS ARE IN INCHES (MILLIMETERS)

OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.