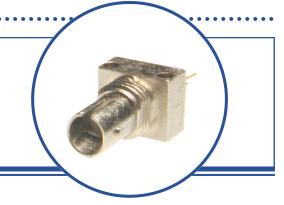
Fiber Optic Detector OPF422



OPF422

- 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 OPF422 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 OPF422 is designed to be compatible with multimode optical fibers from 50/125 to 200/300 microns.

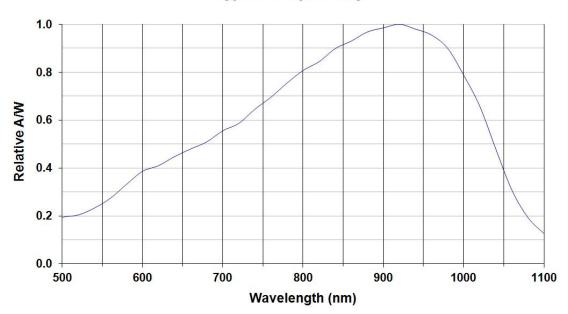
Applications

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



RoHS

Typical Responsivity



 $\mathrm{ST}^{\mathrm{®}}$ 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.

Fiber Optic Detector OPF422



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

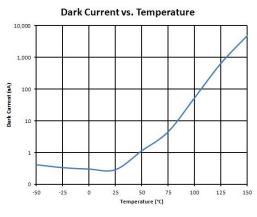
Storage Temperature Range	-55° C to +125° C
Operating Temperature Range	-40° C to +100° C
Lead Soldering Temperature ⁽¹⁾	260° C
Continuous Power Dissipation ⁽²⁾	200 mW
Maximum Reverse Voltage	100 VDC

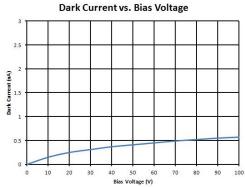
Electrical/Optical Characteristics (T_A = 25°C unless otherwise noted)

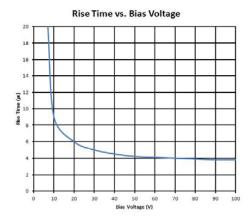
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
R	Responsivity	0.45	0.55		A/W	$V_R = 5.0V; 50/125 \mu m \text{ fiber; } \lambda = 850 nm$
I _D	Dark Current		0.1	5.0	nA	V _R = 5.0V
λρ	Peak Response Wavelength		905		nm	
t _r	Output Rise Time		6.0		ns	V _R = 15V; R _L = 50Ω, 10%-90%
Ст	Total Capacitance		3.0		pF	V _R = 20V

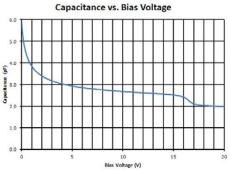
Notes:

- Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.
- De-rate linearly at 2.13mW/°C above 25°C .





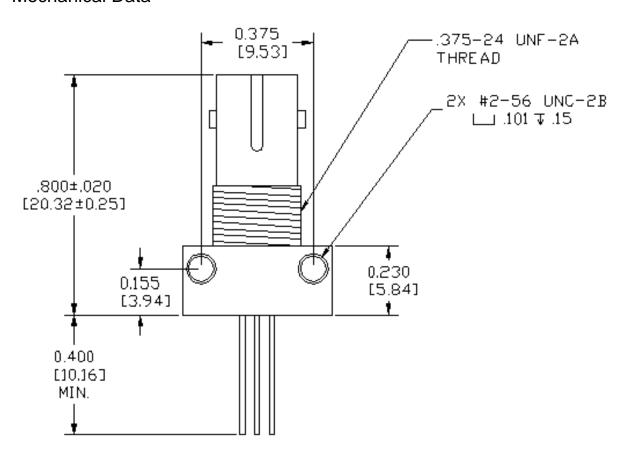


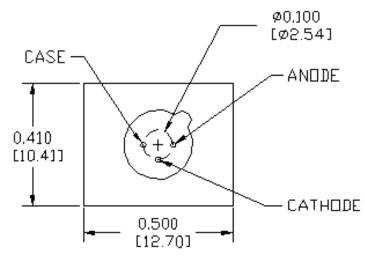


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Mechanical Data





DIMENSIONS ARE IN INCHES (MILLIMETERS)

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