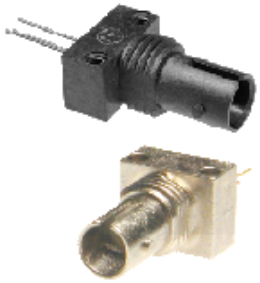
Fiber Optic Detector

OPF79X Series



Features:

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

Description:

The OPF79X 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 OPF79x series 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

Package Material		
Part Number	**Body Material**	**Body Style**
OPF792	Conductive Plastic	ST®
OPF794	Zinc, Die Cast	ST-LP®

RoHS

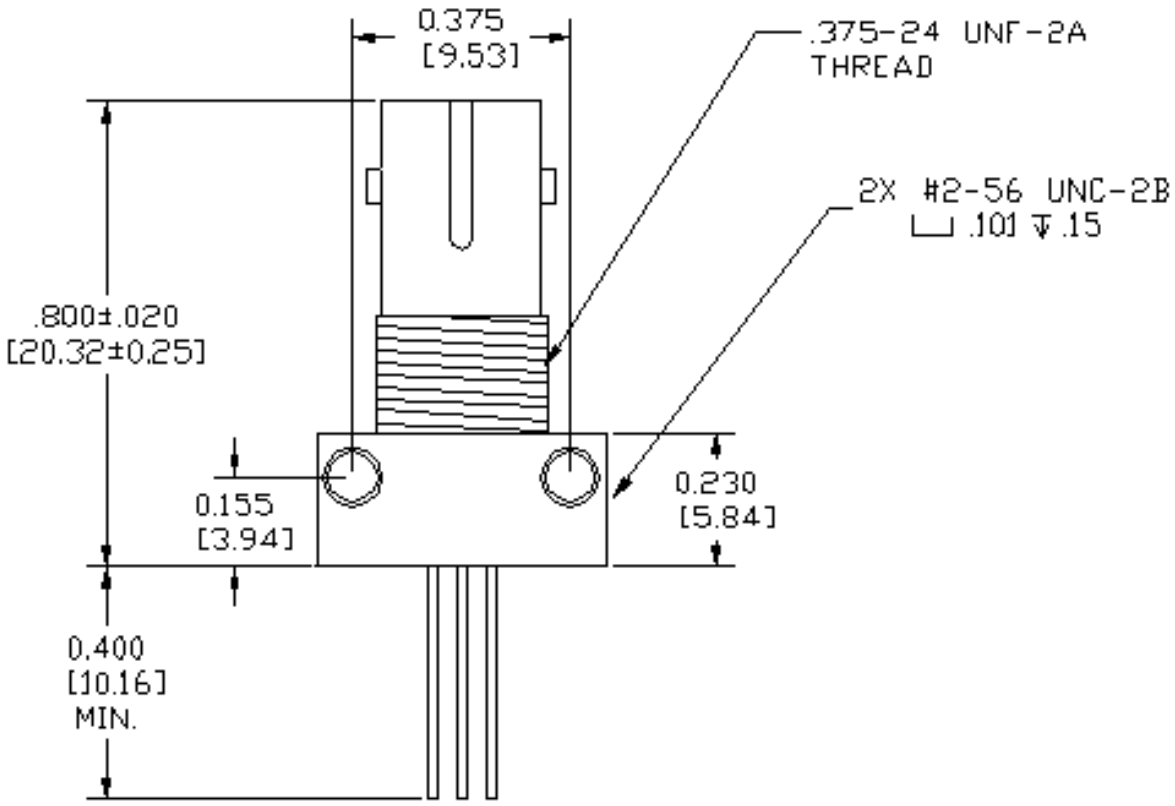
ST® is a registered trademark of AT&T.

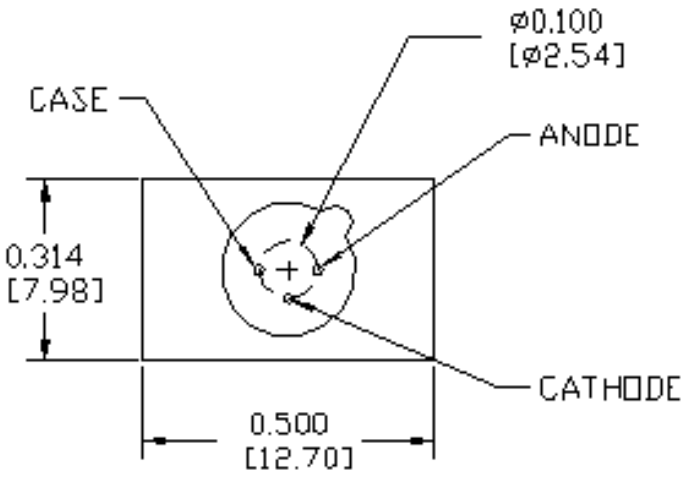
General Note
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www.optekinc.com | www.ttelectronics.com

Mechanical Data - OPF792





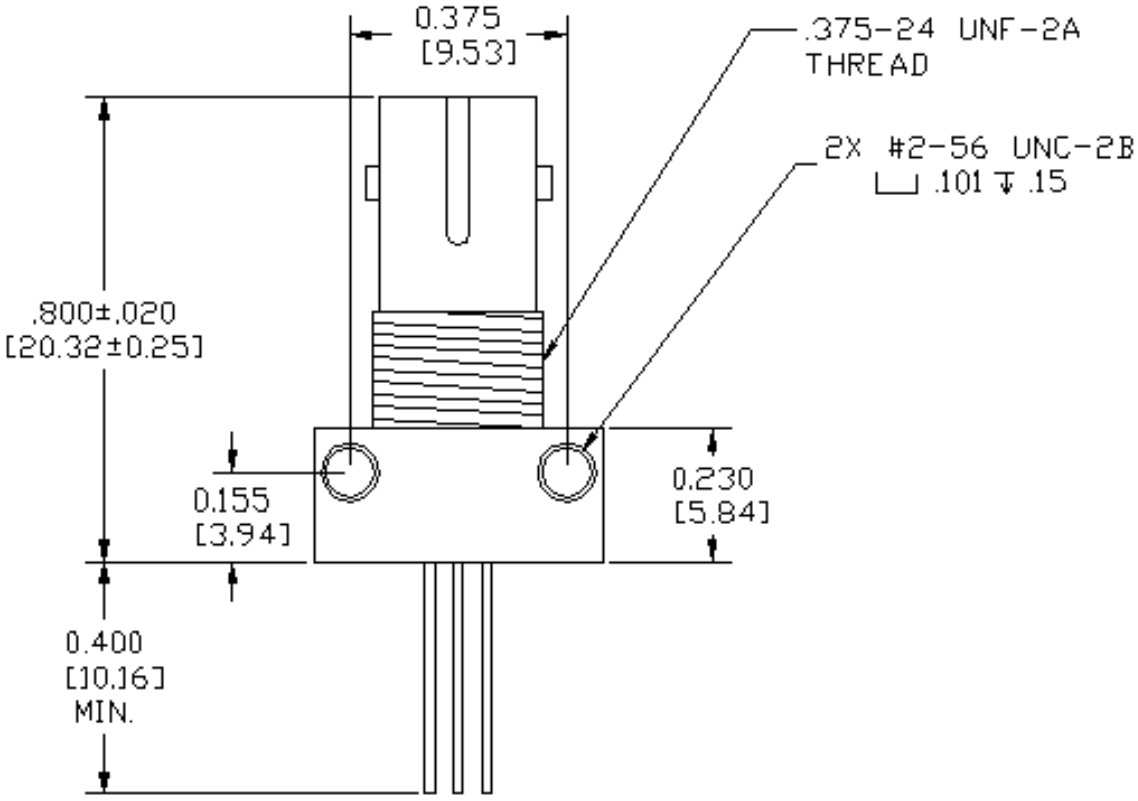
DIMENSIONS ARE IN: **[MILLIMETERS]**
INCHES

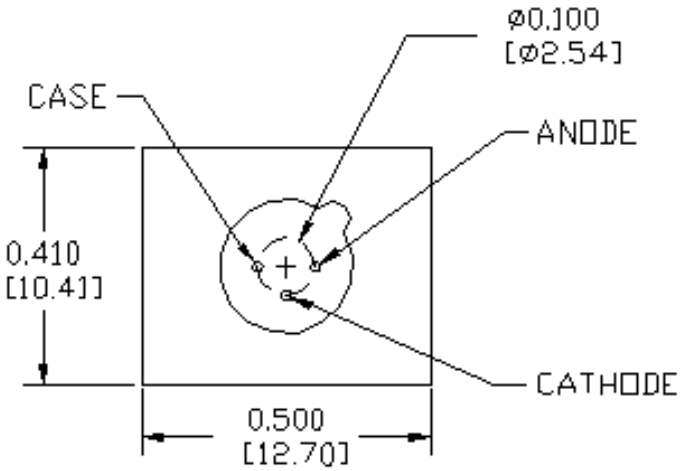
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Mechanical Data - OPF794





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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
Maximum Reverse Voltage	50 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; λ = 850nm
I_D	Dark Current		0.5	5.0	nA	V_R = 5.0V
λ_p	Peak Response Wavelength		800		nm	
t_r	Output Rise Time		2.0		ns	V_R = 5.0V; R_L = 50W, 10%-90%
BW	Bandwidth		175		MHz	V_R = 5.0V

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

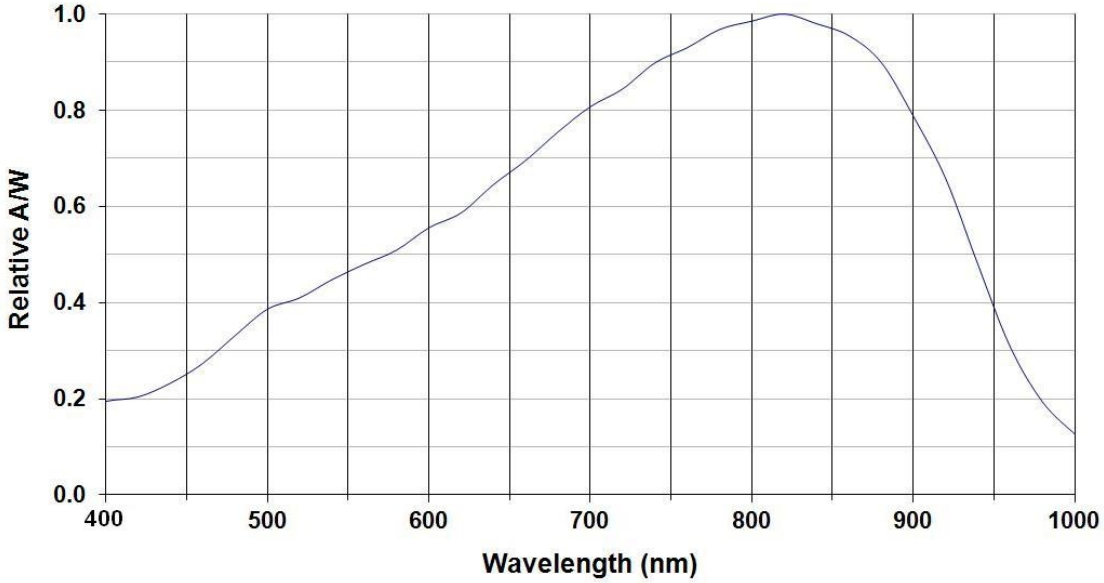
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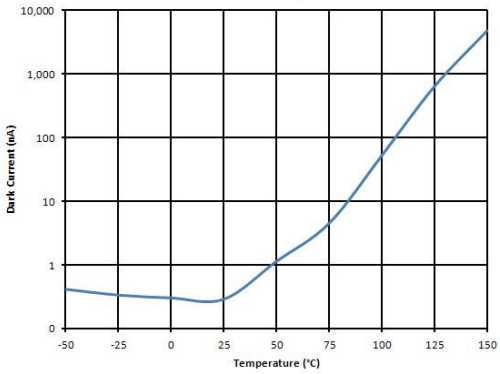
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Performance

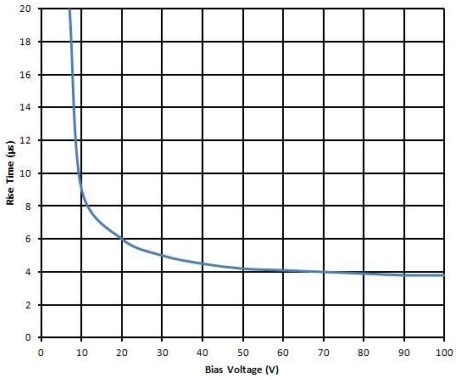
Typical Responsivity



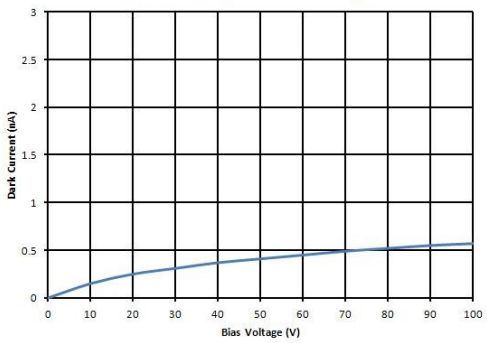
Dark Current vs. Temperature



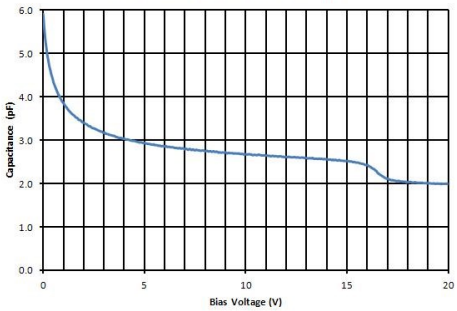
Rise Time vs. Bias Voltage



Dark Current vs. Bias Voltage



Capacitance vs. Bias Voltage



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