

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Fiber Optic Detector

OPF420



Features:

- Electrically isolated plastic cap package
- High speed, low capacitance
- Metal can for improved noise immunity
- 35MHz operation minimum



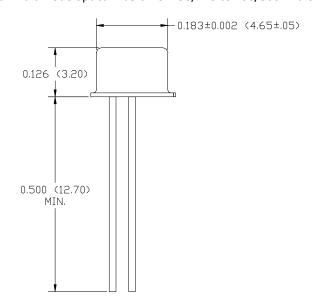
Description:

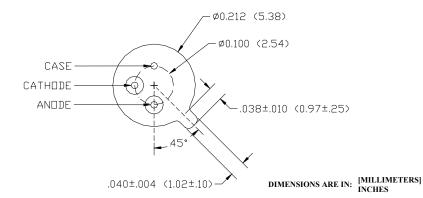
The OPF420 is a low noise silicon PIN photodiode mounted in a low cost package for fiber optic applications. It offers fast response at moderate bias and is compatible with LED and laser diode sources in the 800-1000 nm wavelength region. Low capacitance improves signal to noise performance in typical short haul LAN applications.

The OPF420 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







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.

Fiber Optic Detector

OPF420



Electrical Specifications

Absolute Maximum Ratings (T _A = 25° C unless otherwise noted)			
Storage Temperature Range	-65° C to +150° C		
Operating Temperature Range	-55° C to +125° 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		6.0		ns	V _R = 15V; R _L = 50W, 10%-90%	
C _T	Total Capacitance		3.0		pF	V _R = 20V	
FoV	Field of View		80		deg		

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 1.60mW/°C above 25°C.

Fiber Optic Detector

OPF420



Performance

Typical Responsivity

