Fiber Optic Detector

OPF482



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:

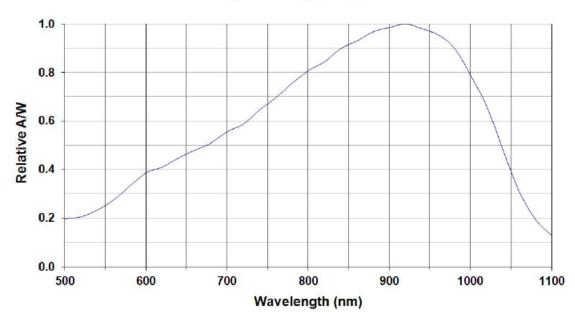
The OPF482 is a low noise silicon PIN photodiode mounted in a low cost package for fiber op@c applica@ons. It offers fast response at moderate bias and is compa@ble with LED and laser diode sources in the 800-1000 nm wavelength region. Low capacitance improves signal to noise performance in typical short haul LAN applica@ons.

The OPF482 is designed to be compaible with mulimode opical fibers from 50/125 to 200/300 microns.

Applications:

- Industrial Ethernet equipment
- Copper-to-fiber media conversion
- Intra-system fiber op⊡c links
- Video surveillance systems

Typical Responsivity





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Electrical Specifications

Absolute Maximum Ratings (T_A = 25° C unless otherwise noted)

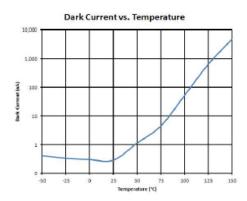
Storage Temperature Range	-55° C to +100° C
Operating Temperature Range	-40° C to +85° C
Lead Soldering Temperature ⁽¹⁾	260° C
Continuous Power Dissipation ⁽²⁾	200 mW
Maximum Reverse Voltage	100 VDC

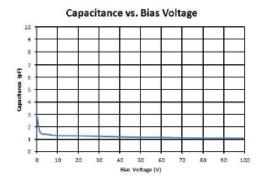
Electrical Characteristics (T_A = 25° C unless otherwise noted)

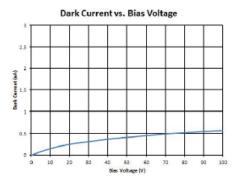
SYMBOL	PARAMETER	MIN	ТҮР	MAX	UNITS	TEST CONDITIONS
R	Responsivity	0.45	0.55		A/W	V _R = 5.0V; 50/125μm fiber; I = 850nm
I _D	Dark Current		0.1	5.0	nA	V _R = 5.0V
l _p	Peak Response Wavelength		905		nm	
t _r	Output Rise Time		2.0		ns	V _R = 5V; R _L = 50W, 10%-90%
C _T	Total Capacitance		1.5	2.0	pF	V _R = 5V

Notes:

- 1. 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 2.67mW/°C above 25°C.







Issue A 11/2016 Page 2