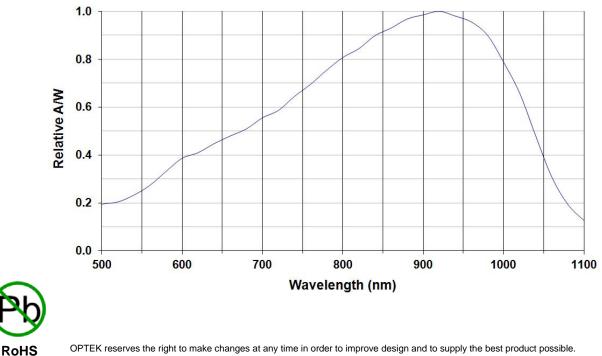


The OPF420 is a low noise silicon PIN photodiode mounted in a low cost package for fiber optic applications. It offers fast response at moderate bias and is compatible with LED and laser diode sources in the 800-1000 nm wavelength region. Low capacitance improves signal to noise performance in typical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



Typical Responsivity



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

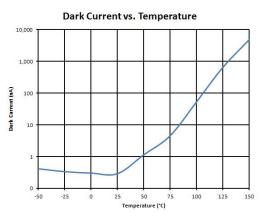
Electrical/Optical Characteristics (T_A = 25°C unless otherwise noted)

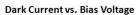
SYMBOL	PARAMETER	MIN	ТҮР	МАХ	UNITS	CONDITIONS
R	Responsivity	0.45	0.55		A/W	V_{R} = 5.0V; 50/125µm fiber; λ = 850nm
ID	Dark Current		0.1	5.0	nA	V _R = 5.0V
λ_p	Peak Response Wavelength		905		nm	
tr	Output Rise Time		6.0		ns	$V_R = 15V; R_L = 50\Omega, 10\%-90\%$
Ст	Total Capacitance		3.0		pF	V _R = 20V
FoV	Field of View		80		deg	

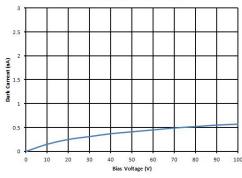
Notes:

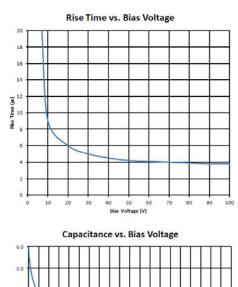
1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.

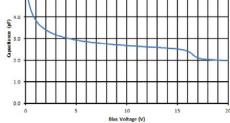
2. De-rate linearly at 1.60mW/°C above 25°C .









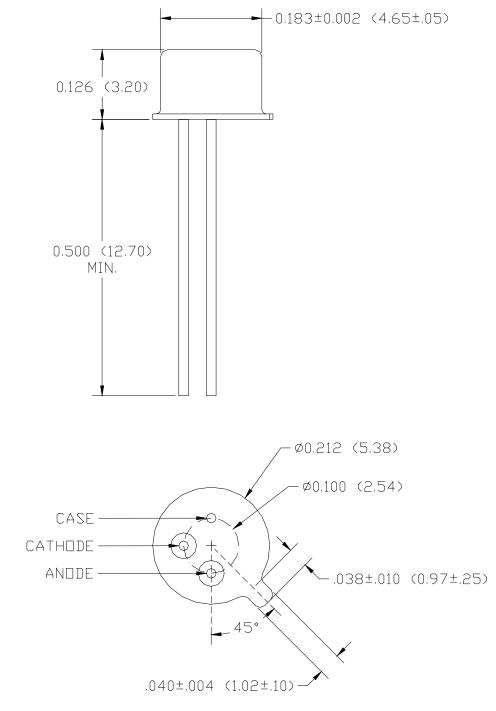


> in order to improve design and to supply the best product possible.

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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.

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