OPF347A



Features:

- Low Cost 850 nm LED technology
- Popular ST[®] style receptacle
- Pre-tested with fiber to assure performance
- Component pre-mounted and ready to use
- Extended temperature range



Description:

The OPF347A fiber optic transmitters is a high performance device packaged for data communication links. This transmitter is an 850nm GaAlAs LED and is specifically designed to efficiently launch optical power into fibers ranging in size from $50/125\mu m$ up to $200/300\mu m$ diameter fiber. Multiple power ranges with upper and lower limits are offered which allows the designer to select a device best suited for the application.

This product's combination of features including high speed and efficient coupled power makes it an ideal transmitter for integration into all types of data communications equipment.

The mechanical design of this packaged is intended for PC Board or panel mounting. It is shipped with a lock washer, jam nut, 2 #2-56 screws, and a protective dust cap.

Applications:

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

Typical Coupled Power I _F = 100mA, 25°C						
Fiber Size	Type	N.A.	OPF347A			
50/125 μm	Graded Index	0.20	25μW			
62.5/125 μm	Graded Index	0.28	45μW			
100/140 μm	Graded Index	0.29	125μW			
200/300 μm	Step Index	0.41	475μW			





ESD Class 3

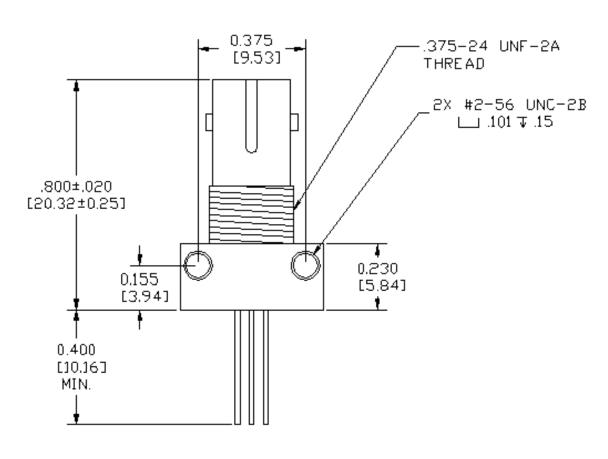
ST[®] is a registered trademark of AT&T.

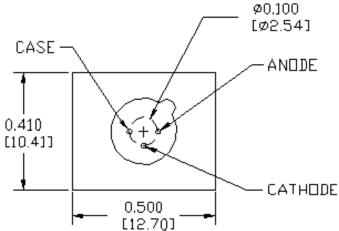
All Optek OPF LED emitters are AEL Class I as defined by IEC 60825-1 and are Risk Group 1 (Low-Risk) as defined by IEC 62471.

OPF347A



Mechanical Data





DIMENSIONS ARE IN INCHES (MILLIMETERS)

OPF347A



Electrical Specifications

Absolute Maximum Ratings (T _A = 25° C unless otherwise noted)				
Storage Temperature Range	-55° C to +150° C			
Operating Temperature Range	-40° C to +125° C			
Lead Soldering Temperature ⁽¹⁾	260° C			
Continuous Forward Current ⁽²⁾	100 mA			
Maximum Reverse Voltage	1.0 V			

Electrical Characteristics (T _A = 25° C unless otherwise noted)									
SYMBOL	PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITIONS		
P _{OC}	Total Coupled Power 50/125 mm Fiber, NA = 0.20	OPF347A	20.0	25.0		μW	I _F = 100 mA		
V_{F}	Forward Voltage			1.8	2.2	V	I _F = 100 mA		
V_R	Reverse Voltage		1.8			V	Ι _R = 100 μΑ		
λ	Wavelength		830	850	870	nm	I _F = 50 mA		
Δλ	Optical Bandwidth			45	60	nm	I _F = 50 mA		
t _r ,t _f	Rise and Fall Time			3.5	4.5	ns	I _F = 100 mA; 10% to 90% ⁽³⁾		

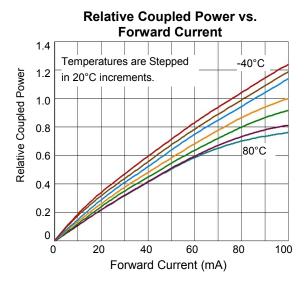
Notes:

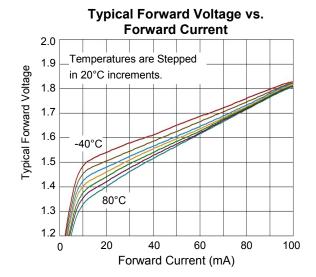
- 1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.
- 2. De-rate linearly at 0.64 mA /°C above $25 ^{\circ}\text{C}$.
- 3. No Pre-bias.
- 4. All Optek fiber optic LED products are subjected to 100% burn-in as part of its quality control process. The burn-in conditions are 96 hours at 100mA drive current and 25°C ambient temperature.

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Performance





X-ON Electronics

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