OPF372 Family



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
- 35MHz operation



Description:

The OPF372 family fiber optic transmitters are high performance devices 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 50/125µm up to 200/300µm 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	Туре	N.A.	OPF372A	OPF372B	OPF372D					
50/125 μm	Graded Index	0.20	29μW	19μW	7.5μW					
62.5/125 μm	Graded Index	0.28	89μW	51μW	27μW					
100/140 μm	Graded Index	0.29	200μW	129μW	60μW					
200/300 μm	Step Index	0.41	750μW	606μW	320μW					

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.



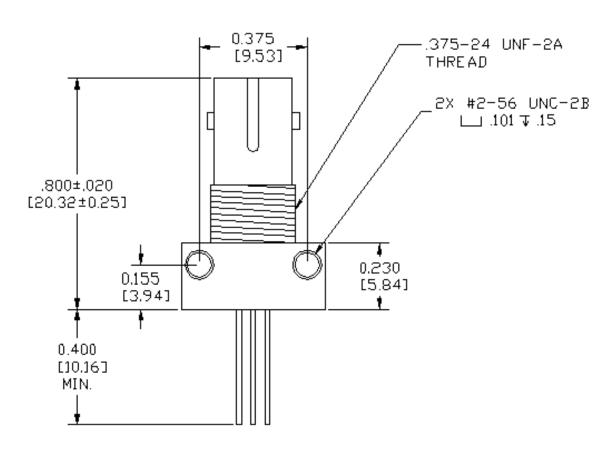


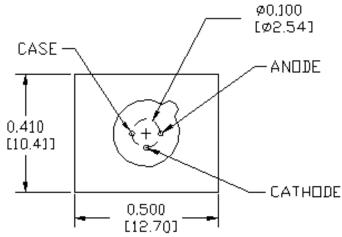
ST[®] is a registered trademark of AT&T.

OPF372 Family



Mechanical Data





DIMENSIONS ARE IN INCHES (MILLIMETERS)

OPF372 Family



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 Forward Current ⁽²⁾	100 mA		
Maximum Reverse Voltage	1.0 V		

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

SYMBOL	PARAMETER		MIN	TYP	МАХ	UNITS	TEST CONDITIONS
Paa	Total Coupled Power 50/125 μm Fiber, NA = 0.20	OPF372A	25.0	29.0		μW	I _F = 100 mA
		OPF372B	15.0	19.0			
		OPF372D	5.0	7.5			
V _F	Forward Voltage			1.8	2.2	V	I _F = 100 mA
V_R	Reverse Voltage		1.8			V	I _R = 100 μA
λ	Wavelength		830	850	870	nm	I _F = 50 mA
Δλ	Optical Bandwidth			50	60	nm	I _F = 50 mA
t _r ,t _f	Rise and Fall Time			6.0	10.0	ns	I _F = 100 mA; 10% to 90% ⁽³⁾

Notes:

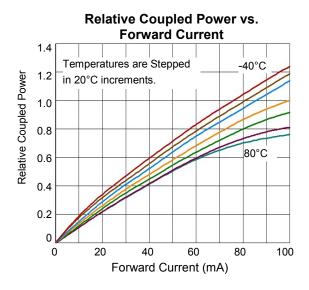
- 1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.
- De-rate linearly at 1.33mA /°C above 25°C.
- 3. No Pre-bias.
- 4. All Optek fiber optic LED products are subjected to 100% burn-in as part of its quality control process. The burn-in conditions are 96 hours at 100mA drive current and 25°C ambient temperature.

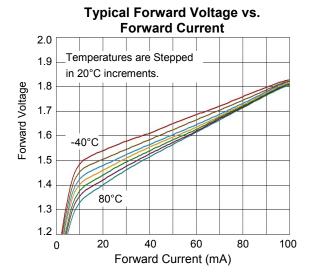
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OPF372 Family



Performance





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

OPF372A OPF372B OPF372C OPF372D