OPF320 Series



Features:

- Low Cost 850 nm LED technology
- Hermetic metal can package
- High thermal stability
- · High optical coupling efficiency to multimode fiber
- Industrial temperature range
- 35 MHz Bandwidth



Description:

The OPF320 series fiber optic transmitters are high performance devices packaged for data communication links. This transmitter is an 850 nm 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.

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.	OPF320A	OPF320B	OPF320C					
50/125 μm	Graded Index	0.20	19μW	12.5μW	7.5μW					
62.5/125 μm	Graded Index	0.28	34μW	22μW	16μW					
100/140 μm	Graded Index	0.29	95μW	62μW	38μW					
200/300 μm	Step Index	0.41	360μW	235μW	140μW					



OPTEK Technology, Inc.

OPF320 Series



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 _{T50} ⁽³⁾	Tatal Carrelad Barrer	OPF320A	15.0	19.0		μW	I _F = 100 mA			
	Total Coupled Power	OPF320B	10.0	12.5						
	50/125 mm Fiber NA = 0.20	OPF320C	5.0	7.5						
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			35		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% ⁽⁴⁾			

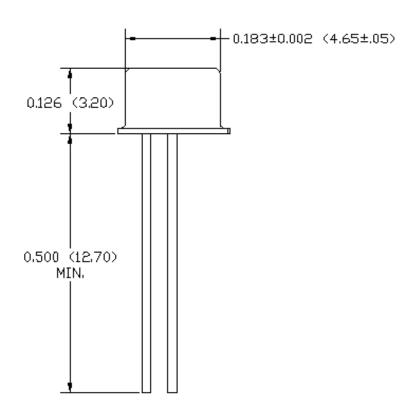
Notes:

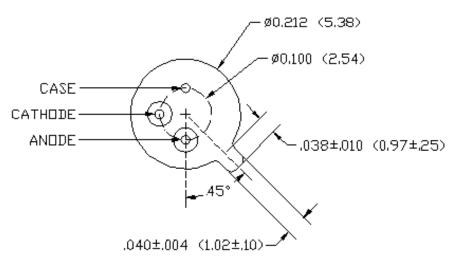
- 1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.
- 2. De-rate linearly at 1.0mA /°C above 25°C.
- 3. The component must be actively aligned into the mating fiber cable assembly to achieve optimal performance.
- 4. No Pre-bias
- 5. 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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Mechanical Data



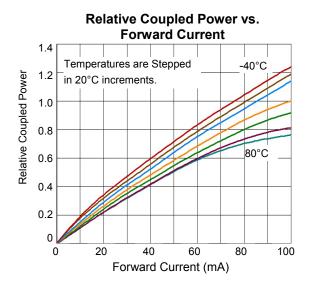


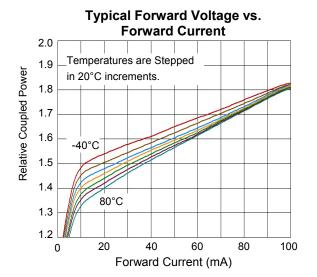
DIMENSIONS ARE IN INCHES (MILLIMETERS)

OPF320 Series



Performance





AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

> Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com