Clairex CFD470 fiber optic Datasheet

http://www.manuallib.com/clairex/cfd470-fiber-optic-datasheet.html

The CFE320A is intended for use in fiber-optic systems and contains an 850nm AlGaAs IRED mounted on a TO-46 header. Features are high coupled power and fast rise and fall times in an easily mounted hermetic package. A glass microlens is mechanically centered over the IRED to enhance light coupling.

ManualLib.com collects and classifies the global product instrunction manuals to help users access anytime and anywhere, helping users make better use of products.

http://www.manuallib.com

CFE320A

Fiber Optic AlGaAs IRED



November, 2004



features

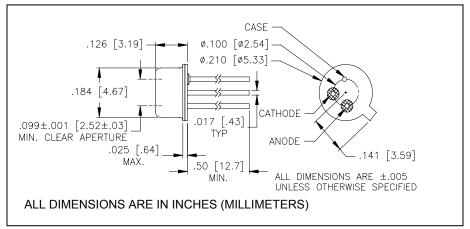
- · High speed · Optimized for fiber optic applications
- TO-46 header, flat window can

· Electrically isolated from case

RoHS compliant

description

The CFE320A is intended for use in fiber-optic systems and contains an 850nm AlGaAs IRED mounted on a TO-46 header. Features are high coupled power and fast rise and fall times in an easily mounted hermetic package. A glass microlens is mechanically centered over the IRED to enhance light coupling.



absolute maximum ratings (T_A = 25°C unless otherwise stated)

storage temperature	55°C to +150°C
operating temperaturelead soldering temperature ⁽¹⁾	260°C
reverse voltage	5VDC
continuous forward current ⁽²⁾⁽³⁾	100mA

notes:

- 1. 1/16" (1.6mm) from case for 5 seconds maximum.
- 2. Derate linearly $0.80 \text{mA/}^{\circ}\text{C}$ from 25°C free air temperature to $T_A = +125^{\circ}\text{C}$.
- 3. Continuous operation at this current level requires a heat sink.

symbol	parameter	min	typ	max	units	test conditions
- ,	p in this case		-316			
Po	Total power output ⁽³⁾	15	19	-	μW	I _F = 100mA
V _F	Forward voltage	-	1.8	2.2	V	I _F = 100mA
λ_{P}	Peak emission wavelength	830	850	870	nm	I _F = 100mA
BW	Spectral bandwidth at half power points	-	35	-	nm	I _F = 100mA
t _r	Output rise time	-	5.0	8.0	ns	I _F = 100mA, 10% - 90% ⁽⁴⁾
t _f	Output fall time	_	5.0	10	ns	I _F = 100mA, 10% - 90% ⁽⁴⁾

notes: 3. Graded index fiber, 50 µm core, N.A. = 0.20.

4. Prebias at 5mA.

Clairex reserves the right to make changes at any time to improve design and to provide the best possible product.

Revised 3/15/06

Clairex Technologies, Inc. Phone: 972-265-4900

1301 East Plano Parkway Fax: 972-265-4949

Plano, Texas 75074-8524 www.clairex.com