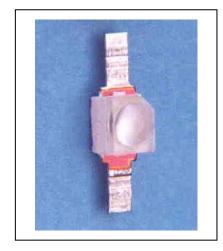
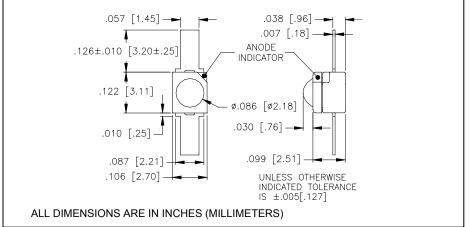
CLE210F

Aluminum Gallium Arsenide IRED Flat Lead PLCC Package



April, 2003





features

- Flat lead PLCC package
- ± 5° emission angle
- 880 nm peak wavelength
- · Custom plastic lens
- · Available with flat lens

description

The CLE210F is an 880nm high output infrared emitting diode chip featuring current AlGaAs technology. It is mounted in a compact, embedded leadframe package with flying lead configuration and lensed to provide a narrow emission pattern. Contact Clairex for alternative wavelength emitter chips, different lenses and lead configurations.

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

storage temperature40°C to +125°C operating temperature40°C to +125°C lead soldering temperature ⁽¹⁾ 240°C
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lead soldering temperature 240°C
maximum continuous current ⁽²⁾
peak forward current (10µs pulse width, 100pps)
maximum power dissipation ⁽³⁾
reverse voltage

notes:

- 0.06" (1.5mm) from case for 5 seconds maximum. Maximum temperature can be 260°C if reflow soldering.
- 2. Derate linearly 0.24mA/°C from 25°C free air temperature to $T_A = +125$ °C.
- 3. Derate linearly $0.60 \text{mW}/^{\circ}\text{C}$ from 25°C free air temperature to $T_A = +125^{\circ}\text{C}$.

ymbol	parameter	min	typ	max	units	test conditions
		•				
Po	Total power output ⁽⁴⁾	0.5	-	-	mW	I _F = 20mA
V _F	Forward voltage	-	-	1.5	V	I _F = 20mA
I _R	Reverse current	-	-	10	μА	V _R = 5.0V
λр	Peak emission wavelength	-	880	-	nm	I _F = 20mA
BW	Spectral bandwidth at half power points	-	80	-	nm	I _F = 20mA
θнр	Emission angle at half power points	-	10	-	deg.	I _F = 20mA

note: 4. Power output is measured in an integrating sphere.

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

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