CLE549W

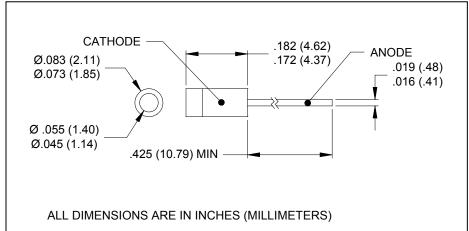
Preliminary

High Power GaN White LED Flat Window Hermetic Coaxial Package



January, 2005





features

- Flat window miniature coaxial package
- ± 50° emitting angle
- · cathode connected to case
- · High luminous flux
- RoHS compliant

description

The CLE549W contains an advanced, high efficiency, high output, GaN blue emitting LED mounted in a miniature hermetic package. A phosphor coating is applied to the die which, when excited, emits white light. It is intended for applications requiring uniform output pattern over a relatively large area and where the application requires close mounting of emitters. Contact Clairex for additional information.

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

storage temperature	65°C to +150°C
operating temperature	65°C to +125°C
lead soldering temperature	260°C
continuous forward current ⁽²⁾	55mA
reverse voltage	5.0V
peak forward current (1.0ms pulse width, 10% duty cycle)	0.25A
continuous power dissipation ⁽³⁾	200mW

notes:

- 1. 0.06" (1.5mm) from case for 5 seconds maximum.
- 2. Derate linearly 0.44mA/°C from 25°C free air temperature to T_A = +125°C.
- 3. Derate linearly 1.60mW/°C from 25°C free air temperature to $T_A = +125$ °C.

electrical characteristics (T _A = 25°C unless otherwise noted)							
symbol	parameter	min	typ	max	units	test conditions	
Фу	Luminous flux	-	820	-	mlm	I _F = 20mA	
V _F	Forward voltage	-	3.2	3.6	V	I _F = 20mA	
I _R	Reverse current	-	-	5.0	μΑ	V _R = 5.0V	
θ_{HP}	Emission angle at half power points	-	100	-	deg.	I _F = 20mA	

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

Revised 3/20/06

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

1301 East Plano Parkway Fax: 972-265-4949 Plano, Texas 75074-8524 www.clairex.com