

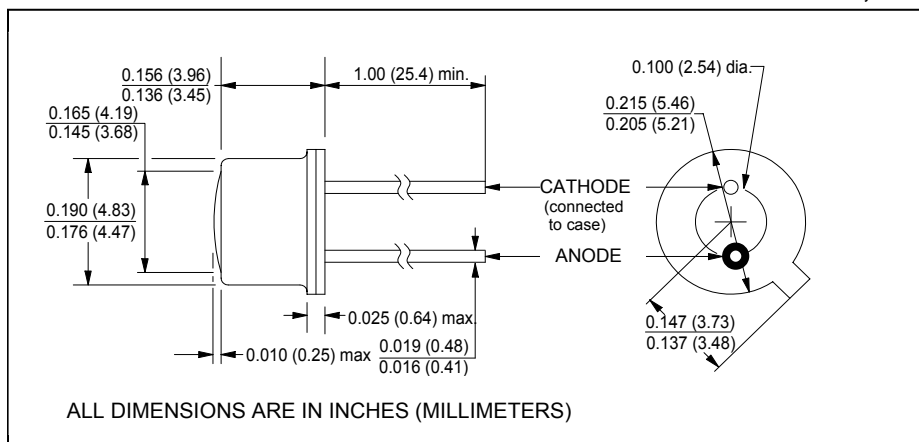
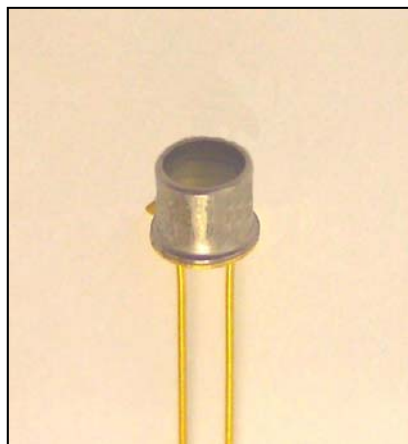
CLE535W

High Power Green LED Flat Window Can, Hermetically Sealed

Preliminary



March, 2006



features

- Flat lens TO-46 Package
- $\pm 35^\circ$ emission angle
- High luminous flux
- cathode connected to case
- RoHS compliant

description

The CLE535W contains a GaN, high power output, green LED mounted on a TO-46 header. The TO-46 header provides the thermal environment for reliable operation over a wide temperature range. For additional information, call Clairex.

absolute maximum ratings ($T_A = 25^\circ\text{C}$ unless otherwise stated)

| | |
|--|---|
| storage temperature | -65°C to $+150^\circ\text{C}$ |
| operating temperature | -65°C to $+125^\circ\text{C}$ |
| lead soldering temperature ⁽¹⁾ | 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/ $^\circ\text{C}$ from 25°C free air temperature to $T_A = +125^\circ\text{C}$.
3. Derate linearly 1.60mW/ $^\circ\text{C}$ from 25°C free air temperature to $T_A = +125^\circ\text{C}$.

electrical characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| symbol | parameter | min | typ | max | units | test conditions |
|---------------|-------------------------------------|-----|-------|-----|---------------|---------------------|
| Φ_V | Luminous flux | - | 1,200 | - | mlm | $I_F = 20\text{mA}$ |
| V_F | Forward voltage | - | 3.2 | 3.6 | V | $I_F = 20\text{mA}$ |
| I_R | Reverse current | - | - | 10 | μA | $V_R = 5.0\text{V}$ |
| θ_{HP} | Emission angle at half power points | - | 70 | - | deg. | $I_F = 20\text{mA}$ |
| λ_p | Peak Wavelength | 520 | 530 | 540 | nm | $I_F = 20\text{mA}$ |

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

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