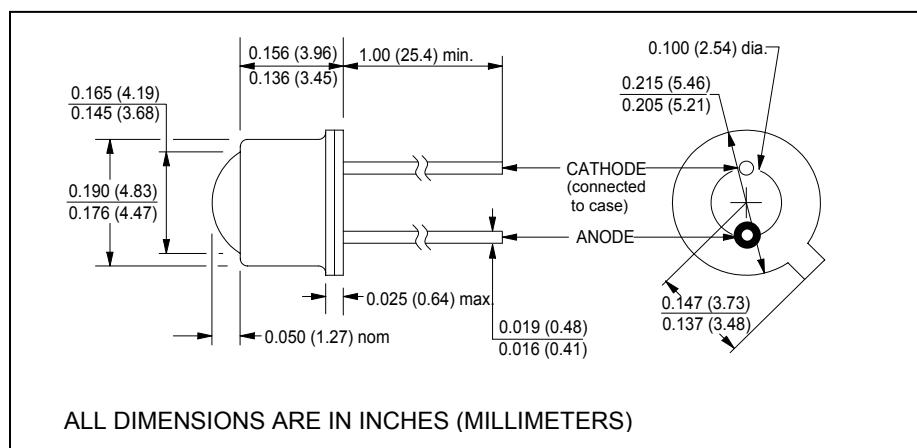
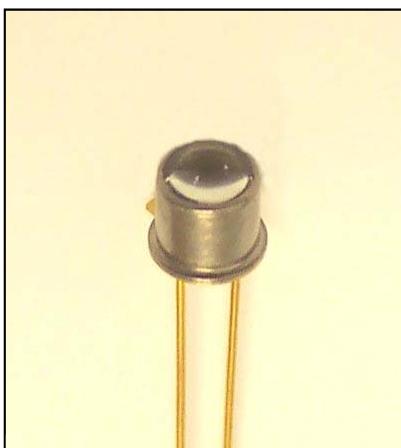


**CLE535****High Power Green LED  
Dome Lens Can, Hermetically Sealed**Preliminary

March, 2006

**features**

- Dome lens TO-46 package
- $\pm 11^\circ$  emitting angle
- High luminous intensity
- High luminous flux
- cathode connected to case
- RoHS compliant

**description**

The CLE535 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°C
operating temperature	.....	-65°C to +125°C
lead soldering temperature <sup>(1)</sup>	.....	260°C
continuous forward current <sup>(2)</sup>	.....	55mA
reverse voltage	.....	5.0V
peak forward current (1.0ms pulse width, 10% duty cycle)	.....	0.25A
continuous power dissipation <sup>(3)</sup>	.....	200mW

**notes:**

1. 0.06" (1.5mm) from the header for 5 seconds maximum.
2. Derate linearly 0.44mA/°C from 25°C free air temperature to  $T_A = +125^\circ\text{C}$ .
3. Derate linearly 1.60mW/°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
$I_V$	Luminous intensity	-	10,500	-	mcd	$I_F = 20\text{mA}$
$\Phi_V$	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	$\mu\text{A}$	$V_R = 5.0\text{V}$
$\Theta_{HP}$	Emission angle at half power points	-	22	-	deg.	$I_F = 20\text{mA}$
$\lambda_p$	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.

Revised 3/20/06