

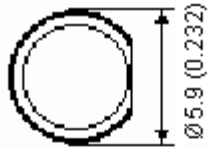


PART NO.

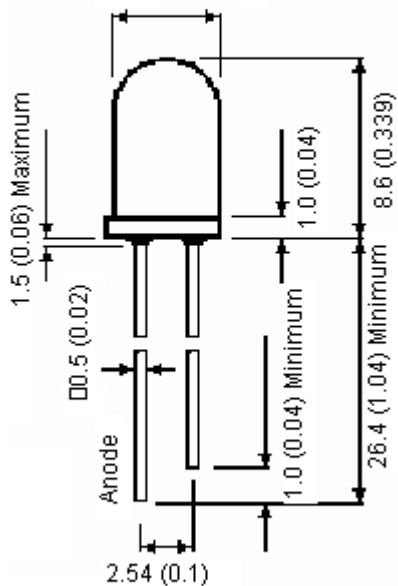
MCLF056GD

REVISIONS

| ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|--------|---------|--------|---------|--------|---------|
| - | A | RELEASED | Geetha | 30/5/08 | Suresh | 30/5/08 | G. C | 13/6/08 |



Ø5.0 (0.197)



Dimensions : Millimetres (Inches)

Features:

- Built-in IC chip, flashes lamp on and off to attract attention.
- Operating voltage range : 3V-10V dc.
- 1/4 duty cycle.
- Blinking frequency : 2.4Hz ($V_{dd} = 5V$).
- Frequency tolerance : 20%.

Specifications:

- Dice material : GaP.
- Emitted color : Green.
- Lens color : Green diffused.
- Peak wavelength : 568nm.
- Viewing angle : 45 degrees.
- Luminous intensity (IV) : 8.8mcd.

Electrical Optical Characteristics at $T_a = 25^\circ C$

| Parameter | Symbol | Minimum | Typical | Maximum | Unit | Test Condition |
|--------------------------|-------------|---------|---------|---------|---------|---------------------|
| Luminous Intensity | I_V | 3.5 | 8.8 | 12.8 | mcd | $I_f = 20mA$ |
| Peak Emission Wavelength | λ_p | - | 568 | - | nm | Measurement at Peak |
| Dominant Wavelength | λ_d | - | 570 | - | | $I_f = 20mA$ |
| Operating Voltage | V_{dd} | 3 | 5 | 10 | V | - |
| Blinking Frequency | F_{blk} | 2.0 | 2.4 | 2.8 | Hz | - |
| Reverse Current | I_R | - | - | 100 | μA | $V_R = 5V$ |

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| DRAWN BY: | DATE: |
| Geetha | 30/05/08 |
| CHECKED BY: | DATE: |
| Suresh | 30/05/08 |
| APPROVED BY: | DATE: |
| G.Cook | 13/06/08 |

DRAWING TITLE:

5.0mm Round LED Lamp - Green

| | | | |
|------------|---------------------|-----------------|------|
| SIZE | DWG NO. | ELECTRONIC FILE | REV |
| A | M10001204 | LF056GD_DWG | A |
| SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 | OF 4 |



PART NO.

MCLF056GD

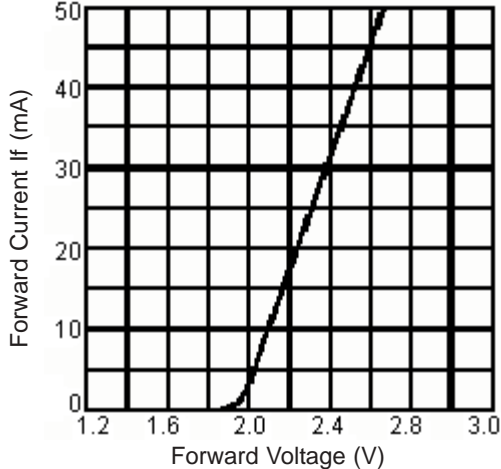
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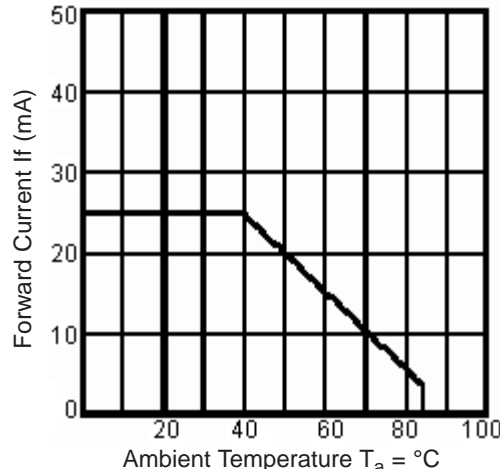
Absolute Maximum Ratings at T_a = 25°C

| Parameter | Maximum | Unit |
|--|---------------------|-------|
| Continuous Forward Current | 30 | mA |
| Derating Linear From 50°C | 0.4 | mA/°C |
| Reverse Voltage | 5 | V |
| Operating Temperature Range | -40°C to +80°C | |
| Storage Temperature Range | | |
| Lead Soldering Temperature [4mm (0.157 inch) from body] | 260°C for 5 Seconds | |

Green (GaP λP = 568nm)



Forward Current vs. Forward Voltage



Forward Current Derating Curve

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| SCALE: NTS | | U.O.M.: mm (Inches) | SHEET: 2 OF 4 |



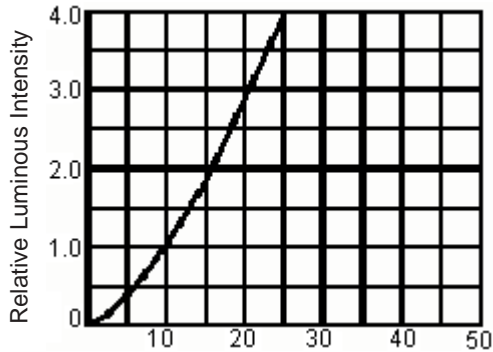
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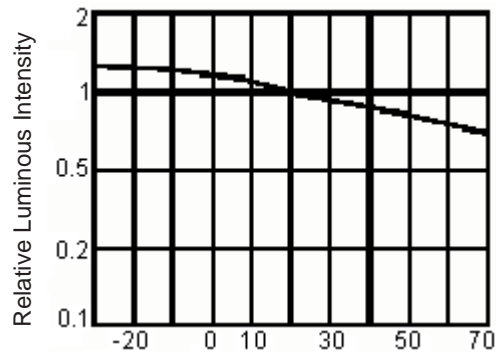
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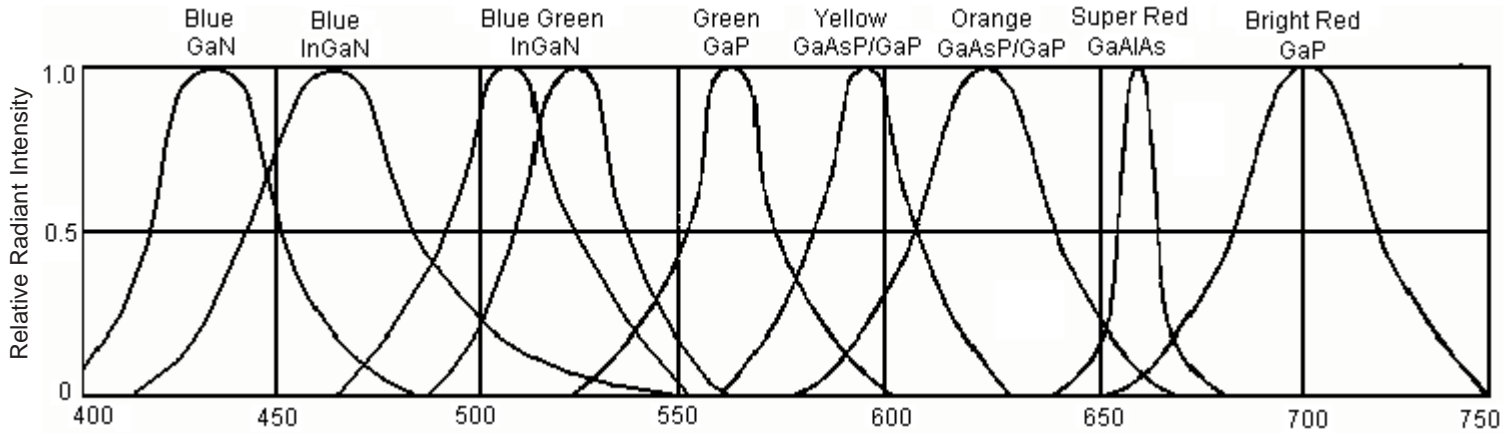
Green (GaP $\lambda_P = 568\text{nm}$)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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| | | | | | | | | |

Part Number Table

| Description | Part Number |
|---------------------------|-------------|
| LED, Flashing, 5mm, Green | MCLF056GD |

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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