

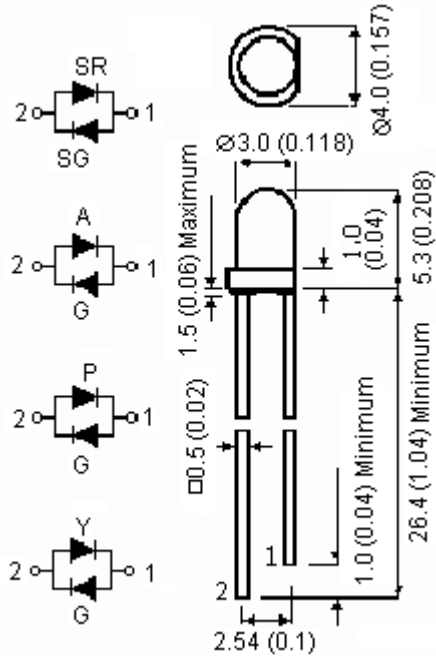


PART NO.

MCL036YGW

REVISIONS

| ECN # | REV | DESCRIPTION | DRAWN | DATE    | CHECKD | DATE    | APPRVD | DATE    |
|-------|-----|-------------|-------|---------|--------|---------|--------|---------|
| -     | A   | RELEASED    | Veena | 28/5/08 | Suresh | 28/5/08 | G. C   | 12/6/08 |



Dimensions : Millimetres (Inches)

Specifications:

Dice material : GaAsP on GaP/GaP.  
 Emitted color : Yellow/green.  
 Lens color : White diffused.  
 Peak wavelength : 587/568nm.  
 Viewing angle : 76 degrees.  
 Luminous intensity (IV) : 11/10 mcd.



Electrical/Optical Characteristics at  $T_a = 25^\circ\text{C}$

| Parameter                                | Symbol          | Minimum | Typical | Maximum | Unit    | Test      |
|--|-----------------|---------|---------|---------|---------|-----------|
| Luminous Intensity                       | IV              | 6/6     | 11/10   | 18/16   | mcd     | IF = 20mA |
| Viewing Angle                            | 2 $\theta$ 1/2  | -       | 76      | -       | degrees |           |
| Peak Emission Wavelength                 | $\lambda_p$     | -       | 587/568 | -       | nm      | -         |
| Dominant Wavelength                      | $\lambda_d$     | -       | 590/570 | -       |         | -         |
| Spectral Line Half-Width                 | $\Delta\lambda$ | -       | 35/30   | -       |         | -         |
| Forward Voltage                          | VF              | 1.7/1.7 | 2.1/2.1 | 2.6/2.6 | V       | IF = 20mA |
| Power Dissipation                        | Pd              | -       | -       | 85      | -       | -         |
| Peak Forward Current (Duty 1/10 at 1KHz) | IF (Peak)       | -       | -       | 100     | -       | -         |
| Recommended Operating Current            | IF (Rec)        | -       | 20      | -       | mA      | -         |

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| Veena        | 28/05/08 |
| CHECKED BY:  | DATE:    |
| Suresh       | 28/05/08 |
| APPROVED BY: | DATE:    |
| G.Cook       | 12/06/08 |

DRAWING TITLE:

3.0mm Bi-Color LED Lamp - Yellow / Green

|            |                     |                 |     |
|------------|---------------------|-----------------|-----|
| SIZE       | DWG NO.             | ELECTRONIC FILE | REV |
| A          | M10001157           | L036YGW_DWG     | A   |
| SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 OF 5   |     |



PART NO.

MCL036YGW

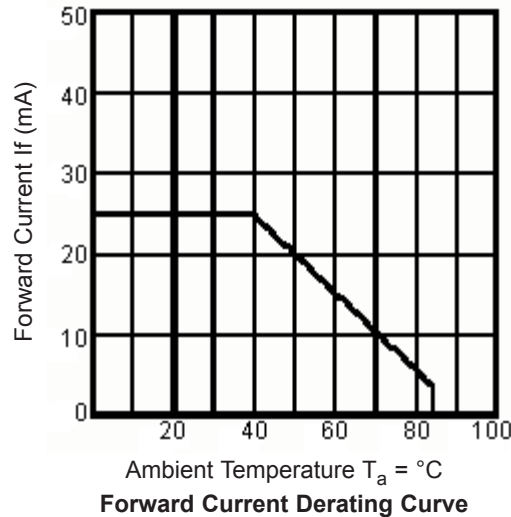
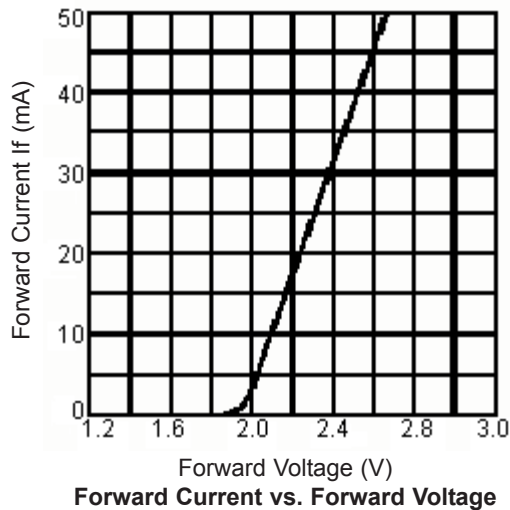
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| -     | A   | RELEASED    | Veena | 28/5/08 | Suresh | 28/5/08 | G. C   | 12/6/08 |

**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

|   |                            |
|---|----------------------------|
| Reverse Voltage   | 5 Volt                     |
| Reverse Current   | 10µA (V <sub>R</sub> = 5V) |
| Operating Temperature Range                                     | -40°C to 85°C              |
| Storage Temperature Range                                       | -40°C to 100°C             |
| Lead Soldering Temperature Range<br>1.6mm (1/16 inch) from body | 260°C for 5 Seconds        |

**Yellow (GaAsP/GaP λ<sub>P</sub> = 587nm)**



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| <b>APPROVED BY:</b> | <b>DATE:</b> |
| G.Cook              | 12/06/08     |

**DRAWING TITLE:**

**3.0mm Bi-Color LED Lamp - Yellow / Green**

|                   |                             |                                       |                      |
|-------------------|-----------------------------|---------------------------------------|----------------------|
| <b>SIZE</b><br>A  | <b>DWG NO.</b><br>M10001157 | <b>ELECTRONIC FILE</b><br>L036YGW_DWG | <b>REV</b><br>A      |
| <b>SCALE: NTS</b> |                             | <b>U.O.M.: mm (Inches)</b>            | <b>SHEET: 2 OF 5</b> |



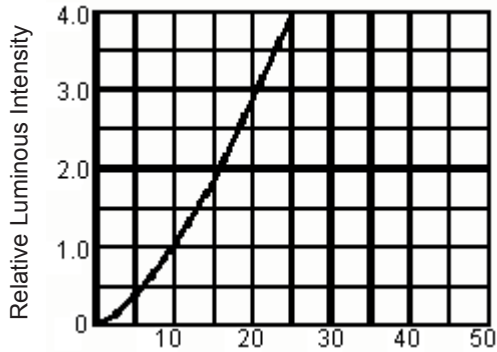
PART NO.

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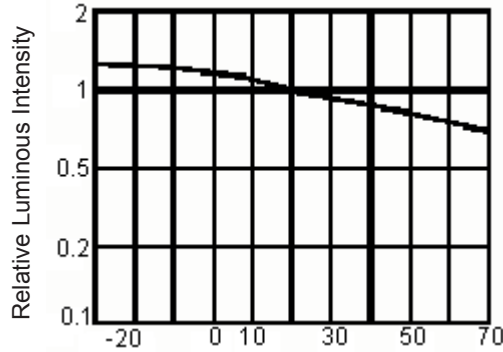
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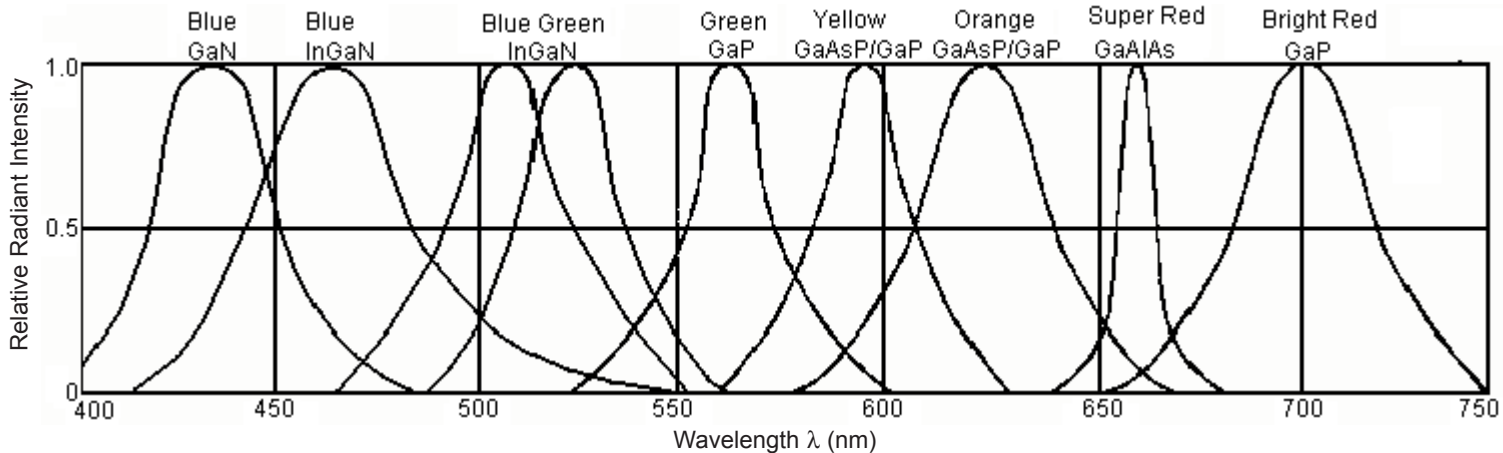
Yellow (GaAsP/GaP  $\lambda_P = 587\text{nm}$ )



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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| G.Cook       | 12/06/08 |

DRAWING TITLE:

3.0mm Bi-Color LED Lamp - Yellow / Green

|            |                     |                 |     |
|------------|---------------------|-----------------|-----|
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| A          | M10001157           | L036YGW_DWG     | A   |
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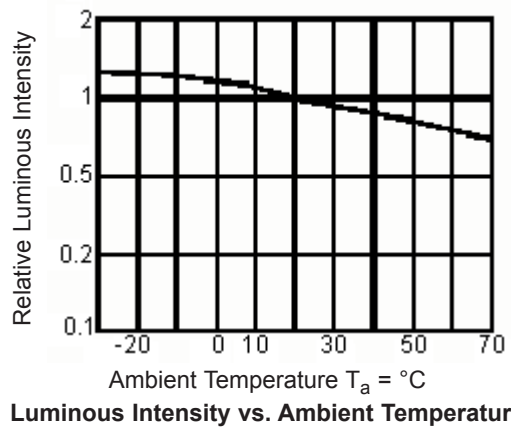
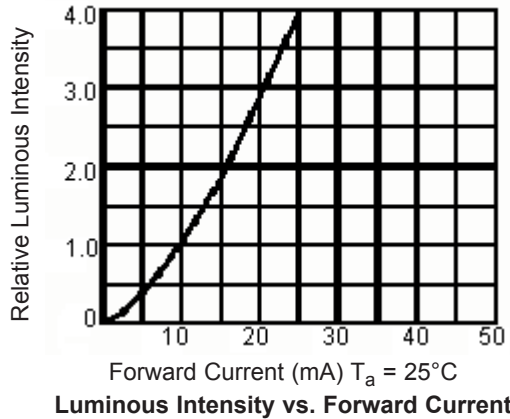
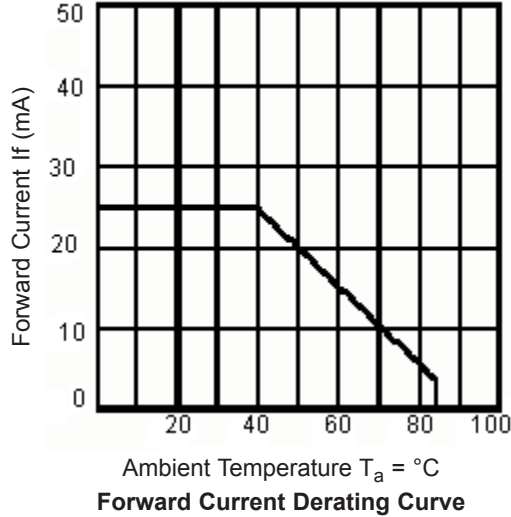
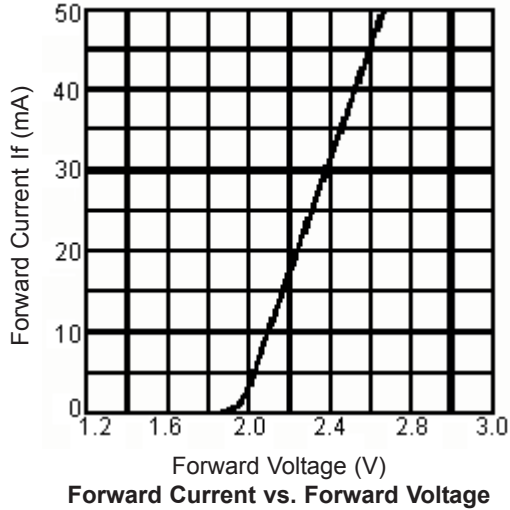
PART NO.

MCL036YGW

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



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DRAWING TITLE:

3.0mm Bi-Color LED Lamp - Yellow / Green

|                  |                             |                                |                 |
|------------------|-----------------------------|--------------------------------|-----------------|
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| SCALE: NTS       |                             | U.O.M.: mm (Inches)            | SHEET: 4 OF 5   |

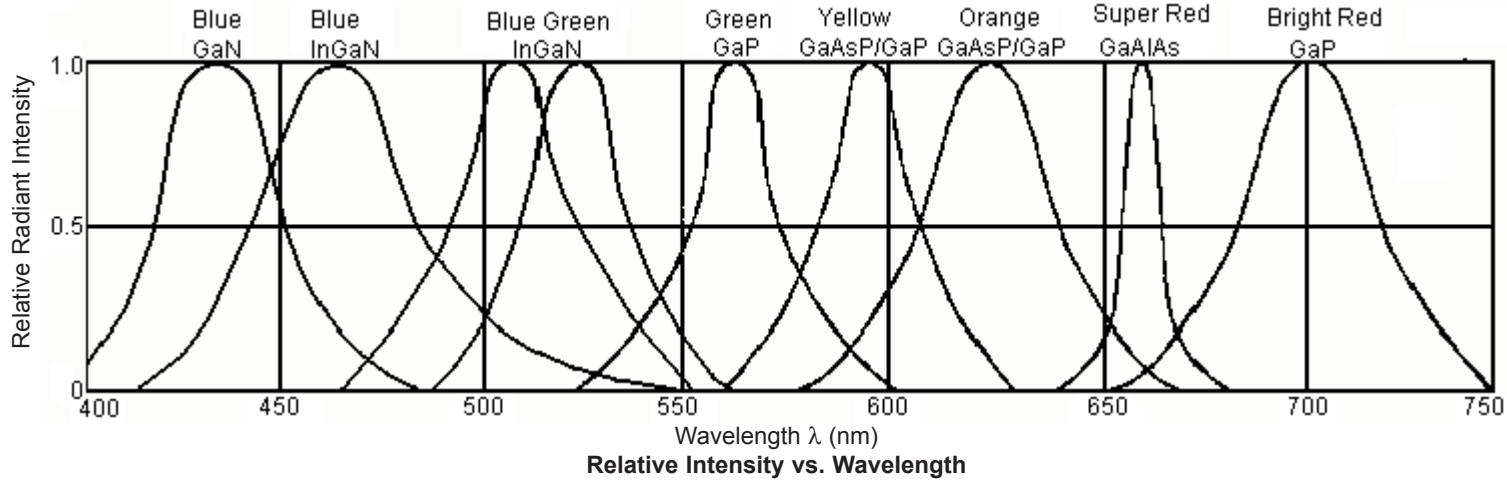


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Part Number Table

| Description                | Part Number |
|----------------------------|-------------|
| LED, 3mm, AC, Yellow/Green | MCL036YGW   |

<http://www.farnell.com>  
<http://www.newark.com>  
<http://www.cpc.co.uk>

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