

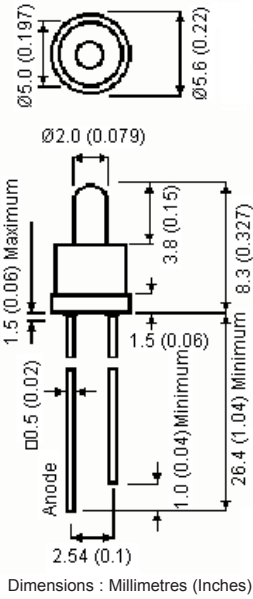


PART NO.

MCL223YD

REVISIONS

| ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|-------|---------|--------|---------|---------|---------|
| - | A | RELEASED | Veena | 25/9/08 | Suresh | 25/9/08 | Farnell | 9/10/08 |



Specifications:

Dice material : GaAsP on GaP.
 Emitted colour : Yellow.
 Lens colour : Yellow diffused.
 Peak wavelength : 587nm.
 Viewing angle : 60 degrees.
 Luminous intensity (IV) : 7.5mcd.



Electrical/Optical Characteristics at T_a = 25°C

| Parameter | Symbol | Minimum | Typical | Maximum | Unit | Test |
|--|----------------|---------|---------|---------|---------|-----------|
| Luminous Intensity | IV | 3.5 | 7.5 | 11 | mcd | IF = 20mA |
| Viewing Angle | 2θ 1/2 | - | 76 | - | degrees | |
| Peak Emission Wavelength | λ _p | - | 587 | - | nm | - |
| Dominant Wavelength | λ _D | - | 590 | - | | - |
| Spectral Line Half-width | Δλ | - | 35 | - | | - |
| Forward Voltage | V _F | 1.7 | 2.1 | 2.6 | V | IF = 20mA |
| Power Dissipation | P _d | - | - | 85 | mW | - |
| Peak Forward Current (Duty 1/10 at 1KHz) | IF (Peak) | - | - | 100 | mA | - |
| Recommended Operating Current | IF (Rec) | - | 20 | - | | - |

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| Veena | 25/09/08 |
| CHECKED BY: | DATE: |
| Suresh | 25/09/08 |
| APPROVED BY: | DATE: |
| Farnell | 09/10/08 |

DRAWING TITLE:

2.0mm Tower LED Lamp - Yellow

| | | | |
|------------|---------------------|-----------------|-----|
| SIZE | DWG NO. | ELECTRONIC FILE | REV |
| A | M10001752 | L223YD_DWG | A |
| SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 OF 4 | |



PART NO.

MCL223YD

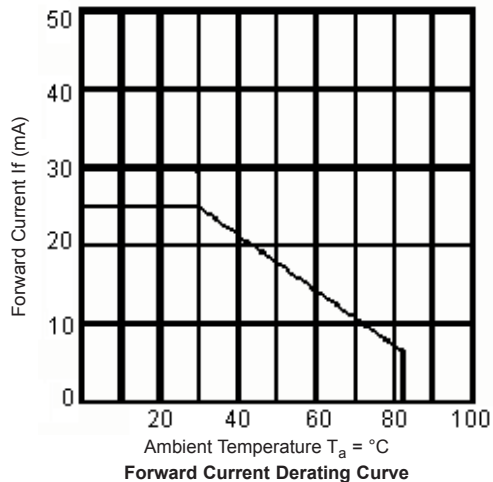
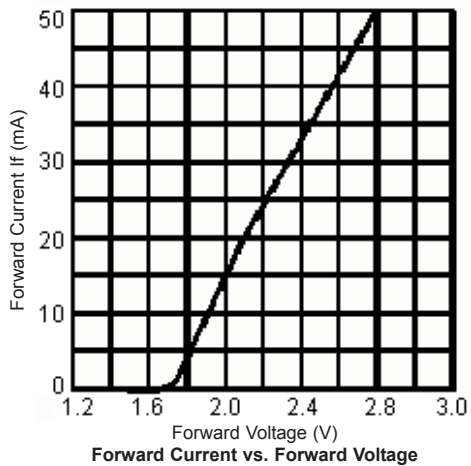
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Absolute Maximum Ratings (T_a = 25°C)

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

Yellow (GaAsP/GaP λ_P = 587nm)



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| Farnell | 09/10/08 |

| | | | |
|-------------------------------|----------------|----------------------------|----------------------|
| DRAWING TITLE: | | | |
| 2.0mm Tower LED Lamp - Yellow | | | |
| SIZE | DWG NO. | ELECTRONIC FILE | REV |
| A | M10001752 | L223YD_DWG | A |
| SCALE: NTS | | U.O.M.: mm (Inches) | SHEET: 2 OF 4 |



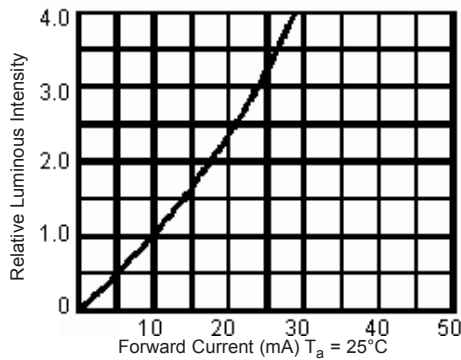
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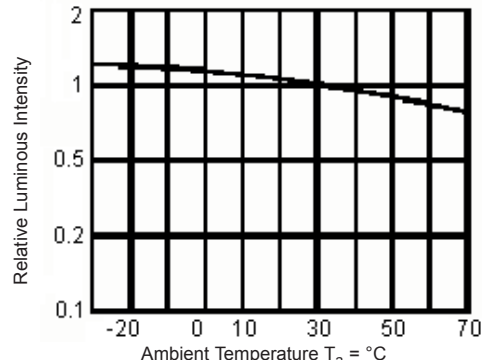
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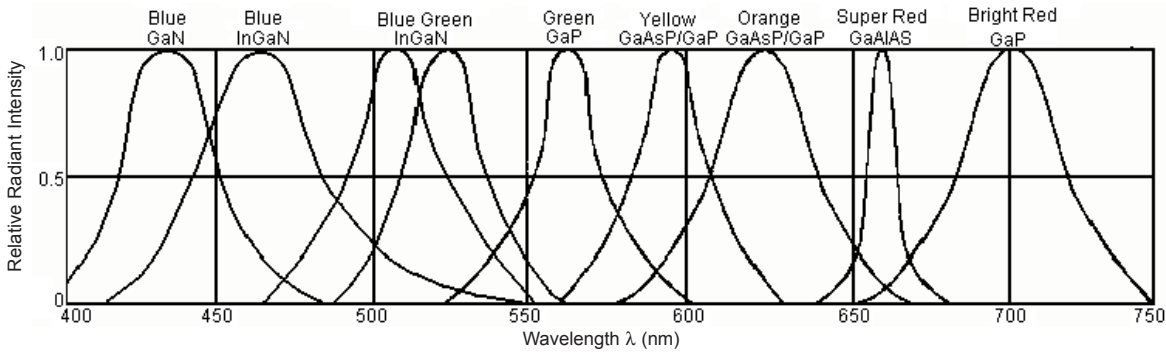
Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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| Suresh | 25/09/08 |
| APPROVED BY: | DATE: |
| Farnell | 09/10/08 |

DRAWING TITLE:

2.0mm Tower LED Lamp - Yellow

| | | | |
|-------------------|----------------|----------------------------|----------------------|
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| A | M10001752 | L223YD_DWG | A |
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PART NO.

MCL223YD

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Part Number Table

| Description | Part Number |
|-----------------------|-------------|
| LED, 2mm, 60°, Yellow | MCL223YD |

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

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