



PART NO.

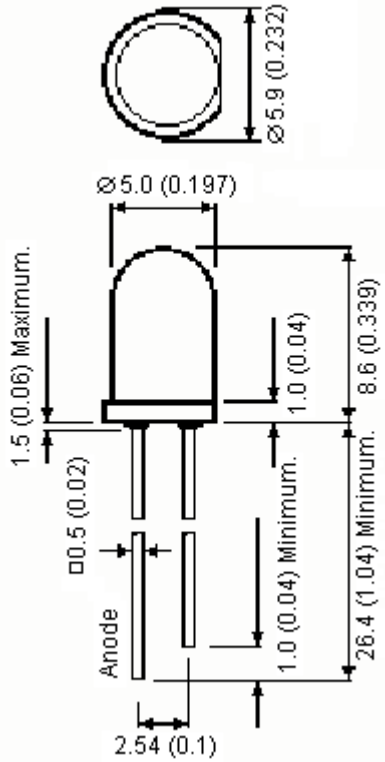
MCL053YT

REVISIONS

| ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|-------|---------|--------|---------|--------|---------|
| - | A | RELEASED | Rekha | 29/5/08 | Suresh | 29/5/08 | G. C | 13/6/08 |

Specifications:

Dice material : GaAsP on GaP.
 Emitted color : Yellow.
 Lens color : Yellow transparent.
 Peak wavelength : 587nm.
 Viewing angle : 16 degrees.
 Luminous intensity (IV) : 50mcd.



Dimensions : Millimetres (Inches)

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

| Parameter | Symbol | Minimum | Typical | Maximum | Unit | Test |
|--|-----------------|---------|---------|---------|---------|-----------|
| Luminous Intensity | IV | 27 | 50 | 78 | mcd | IF = 20mA |
| Viewing Angle | 2θ 1/2 | - | 16 | - | degrees | |
| Peak Emission Wavelength | λ_p | - | 587 | - | nm | - |
| Dominant Wavelength | λ_D | - | 590 | - | | - |
| Spectral Line Half-Width | $\Delta\lambda$ | - | 35 | - | | - |
| Forward Voltage | VF | 1.7 | 2.1 | 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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TOLERANCES:
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| | |
|---------------------|--------------|
| DRAWN BY: | DATE: |
| Rekha | 29/05/08 |
| CHECKED BY: | DATE: |
| Suresh | 29/05/08 |
| APPROVED BY: | DATE: |
| G.Cook | 13/06/08 |

DRAWING TITLE:

5.0mm Round LED Lamp - Yellow

| | | | |
|-------------------|----------------|----------------------------|----------------------|
| SIZE | DWG NO. | ELECTRONIC FILE | REV |
| A | M10001169 | MCL053YT_DWG | A |
| SCALE: NTS | | U.O.M.: mm (Inches) | SHEET: 1 OF 4 |



PART NO.

MCL053YT

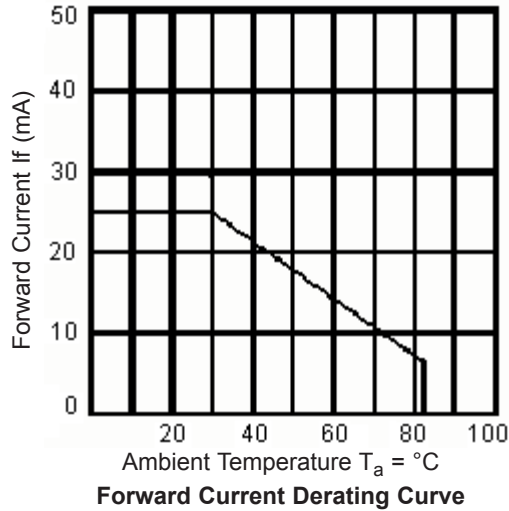
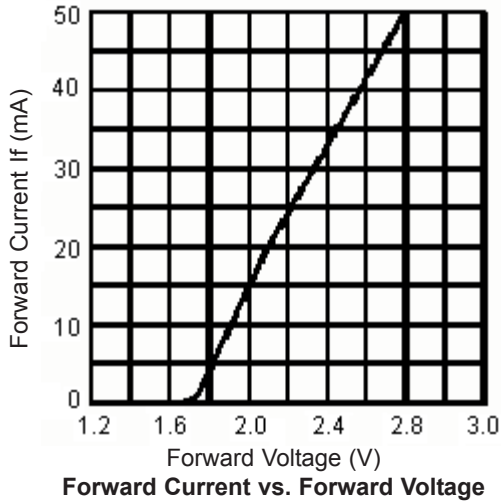
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Absolute Maximum Ratings (T_a = 25°C)

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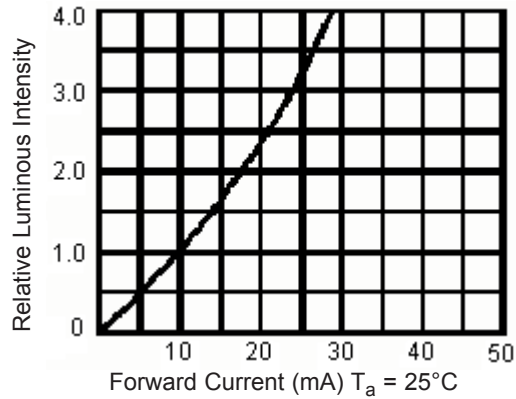
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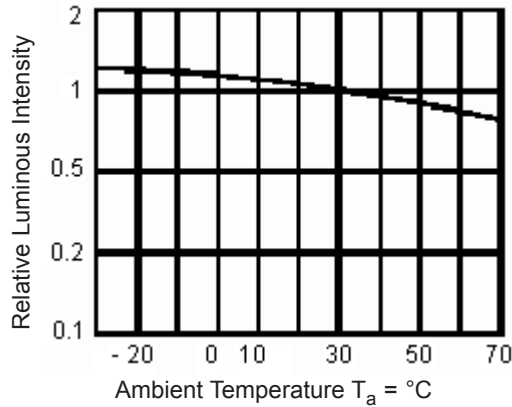
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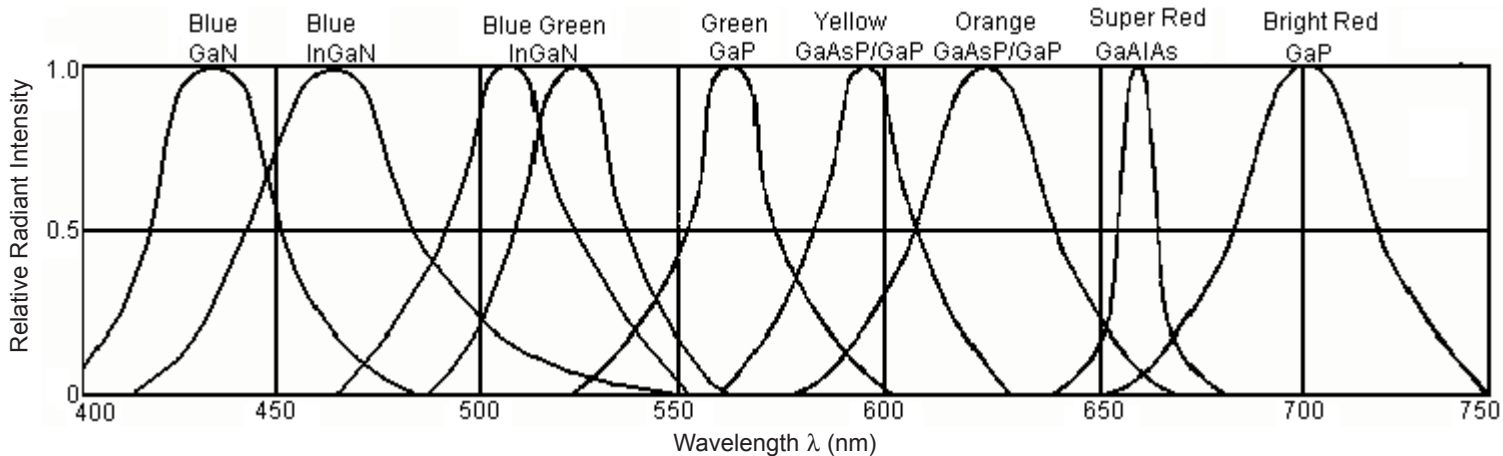
Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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Part Number Table

| Description | Part Number |
|-----------------------|-------------|
| LED, 5mm, 16°, Yellow | MCL053YT |

<http://www.farnell.com>

<http://www.newark.com>

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

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Suresh

APPROVED BY:

G.Cook

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29/05/08

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DWG NO.

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MCL053YT_DWG

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SCALE: NTS

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SHEET: 4 OF 4