



PART NO.

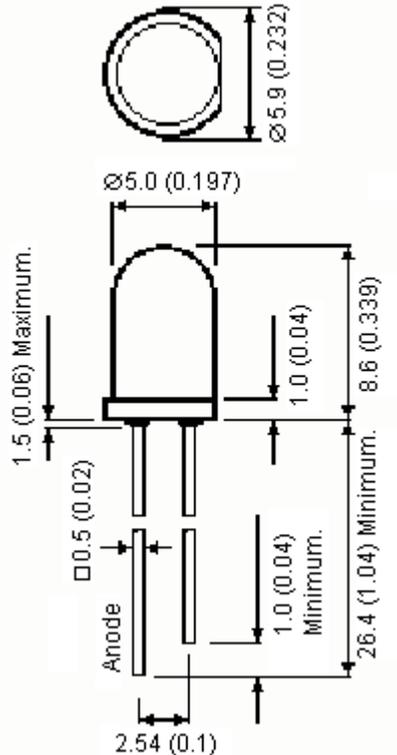
MCL053YD

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 : White diffused.
 Peak wavelength : 587nm.
 Viewing angle : 45 degrees.
 Luminous intensity (IV) : 15mcd.



Dimensions : Millimetres (Inches)

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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	12	15	28	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	45	-	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	M10001167	MCL053YD_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 4



PART NO.

MCL053YD

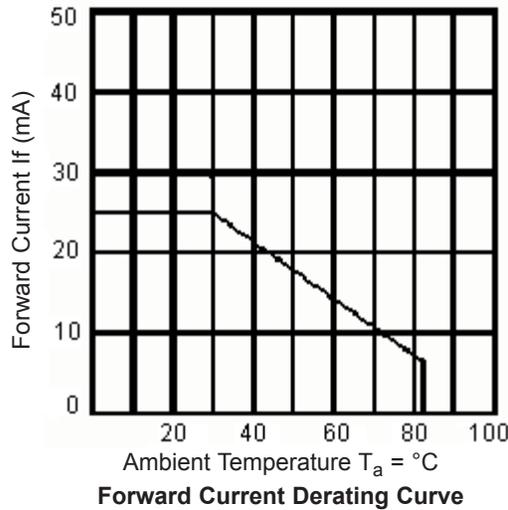
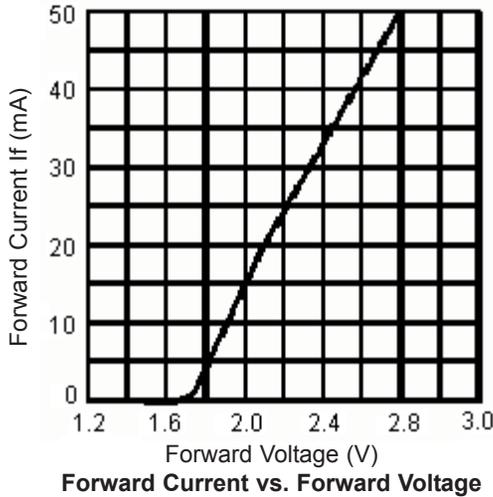
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Absolute Maximum Ratings (T_a = 25°C)

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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Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Yellow

SIZE A	DWG NO. M10001167	ELECTRONIC FILE MCL053YD_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 4



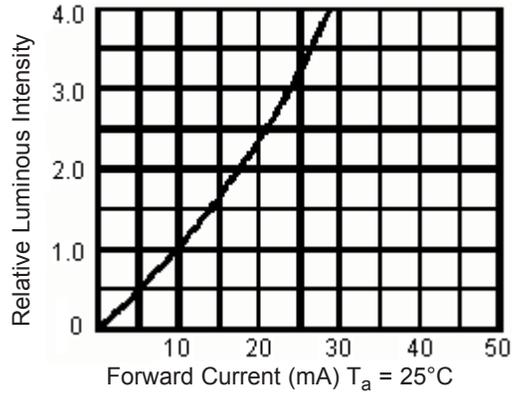
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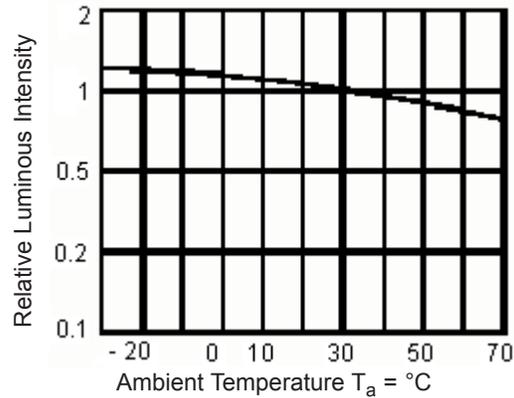
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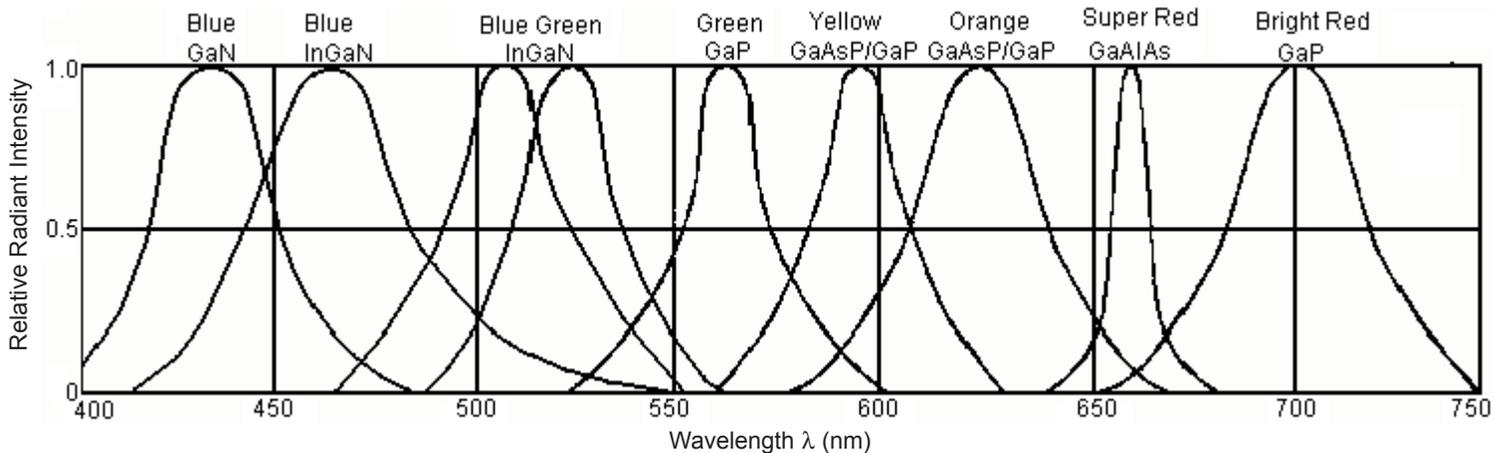
Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Yellow

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001167	MCL053YD_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 3 OF 4	



PART NO.

MCL053YD

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Part Number Table

Description	Part Number
LED, 5mm, 36°, Yellow	MCL053YD

<http://www.farnell.com>

<http://www.newark.com>

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

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G.Cook

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29/05/08

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DATE:

13/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Yellow

SIZE
A

DWG NO.

M10001167

ELECTRONIC FILE
MCL053YD_DWG

REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 4