

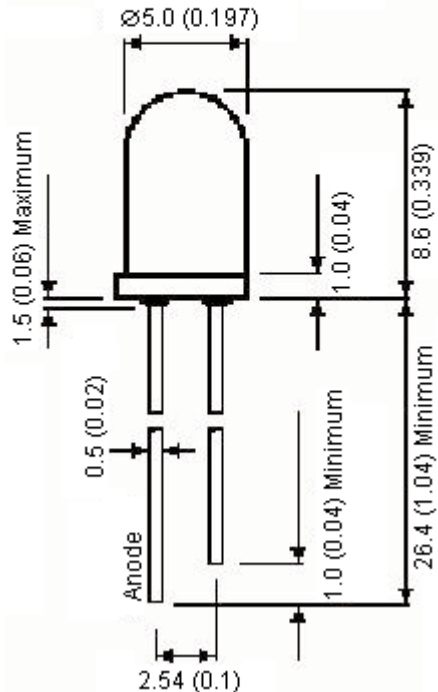
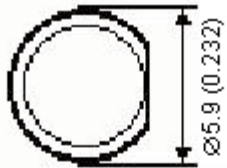


PART NO.

MCL053SYC

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 : AlInGaP.  
 Emitted color : Super yellow.  
 Lens color : Water clear.  
 Peak wavelength : 590nm.  
 Viewing angle : 16 degrees.  
 Luminous intensity (IV) : 2500mcd.



Electrical/Optical Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1350	2500	3850	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	16	-	degrees	
Peak Emission Wavelength	• λ <sub>p</sub>	-	590	-	nm	-
Dominant Wavelength	• λ <sub>d</sub>	-	592	-		-
Spectral Line Half-Width	Δλ	-	22	-		-
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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Veena	28/05/08
CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Yellow

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001154	L053SYC_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 4	



PART NO.

MCL053SYC

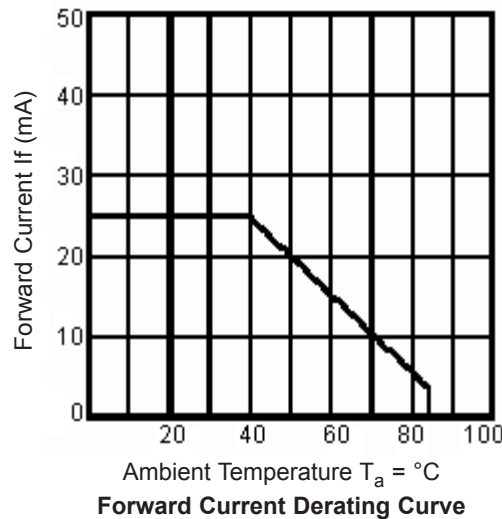
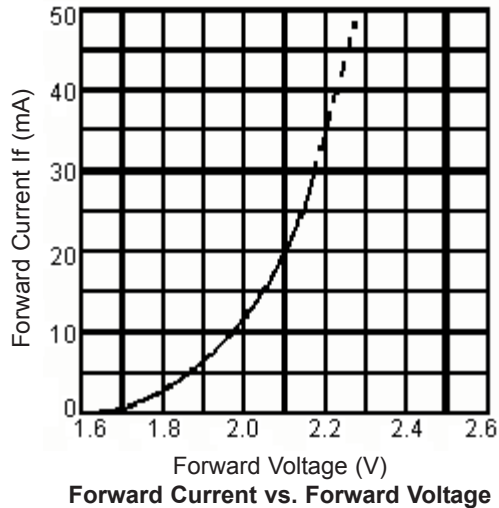
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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

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 1.6mm (1/16 inch) from body	260°C for 5 Seconds

**Super Yellow (AlInGaP λ<sub>P</sub> = 590nm)**



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Suresh	28/05/08
<b>APPROVED BY:</b>	<b>DATE:</b>
G.Cook	12/06/08

**DRAWING TITLE:**

**5.0mm Round LED Lamp - Yellow**

<b>SIZE</b> A	<b>DWG NO.</b> M10001154	<b>ELECTRONIC FILE</b> L053SYC_DWG	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 2 OF 4</b>



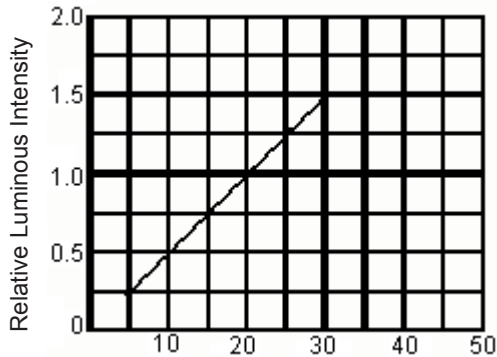
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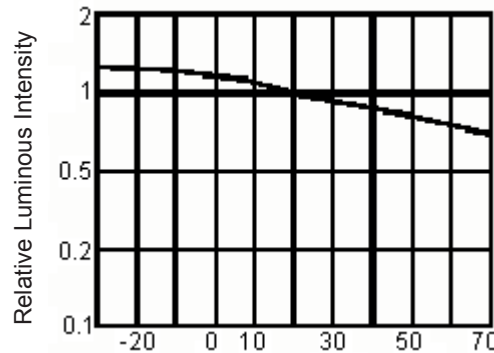
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Super Yellow (AlInGaP  $\lambda_P = 590\text{nm}$ )



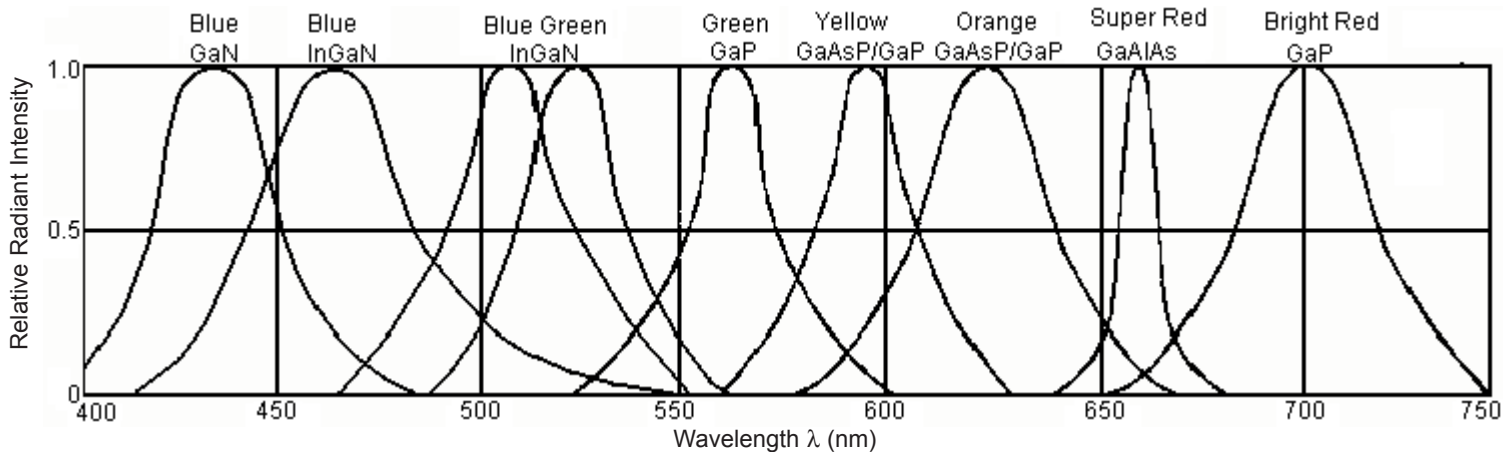
Forward Current (mA)  $T_a = 25^\circ\text{C}$

Luminous Intensity vs. Forward Current



Ambient Temperature  $T_a = ^\circ\text{C}$

Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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

DRAWING TITLE:

5.0mm Round LED Lamp - Yellow

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001154	L053SYC_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 3 OF 4	



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MCL053SYC

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Part Number Table

Description	Part Number
LED, 5mm, 16°, Yellow	MCL053SYC

<http://www.farnell.com>

<http://www.newark.com>

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

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G.Cook	12/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Yellow

SIZE <b>A</b>	DWG NO. <b>M10001154</b>	ELECTRONIC FILE L053SYC_DWG	REV <b>A</b>
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 OF 4	