



PART NO.

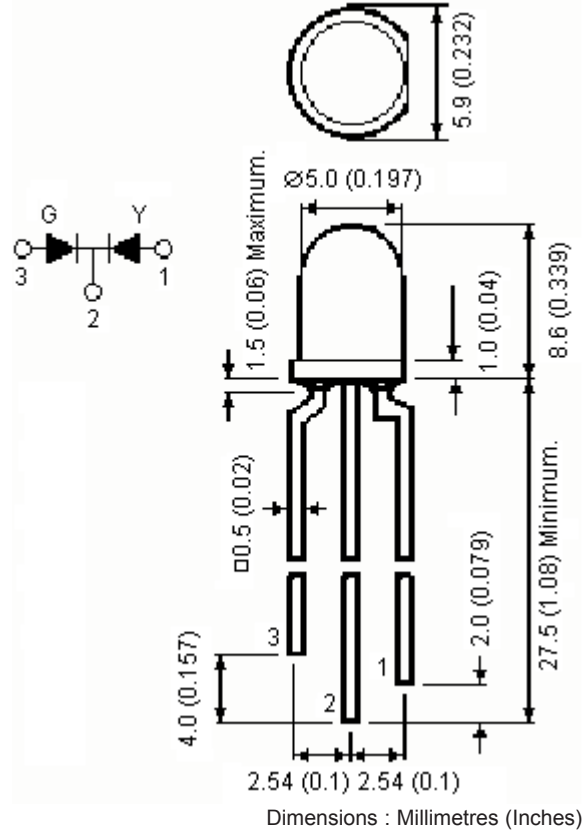
MCL059YGW

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08

Specifications:

Dice material : GaAsP on GaP/GaP.
 Emitted color : Yellow/green.
 Lens color : White diffused.
 Peak wavelength : 587/568nm.
 Viewing angle : 45 degrees.
 Luminous intensity (IV) : 15/14 mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	7/7	15/14	23/22	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	45	-	degrees	
Peak Emission Wavelength	• λ _p	-	587/568	-	nm	-
Dominant Wavelength	• λ _d	-	590/570	-		-
Spectral Line Half-Width	Δλ	-	35/30	-		-
Forward Voltage	V _F	1.7/1.7	2.1/2.1	2.6/2.6	V	IF = 20mA
Power Dissipation	P _d	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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DRAWN BY:	DATE:
Rekha	27/05/08
CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:			
5.0mm Multi-Color LED Lamp - Yellow / Green			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001129	L059YGW_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 5



PART NO.

MCL059YGW

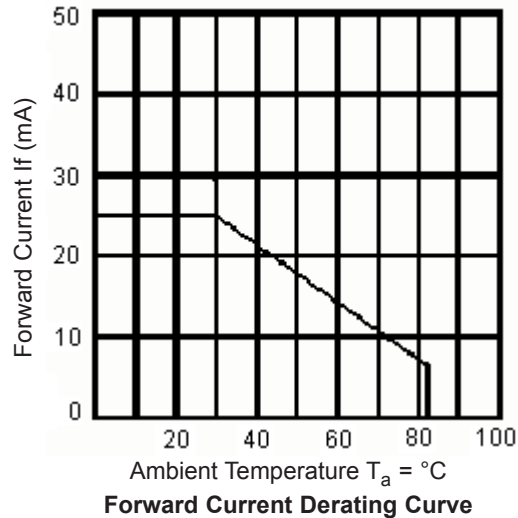
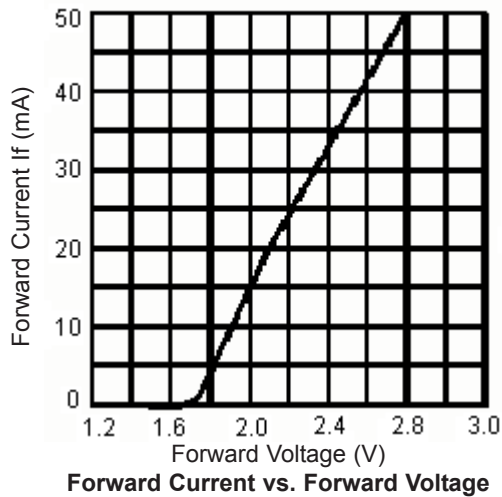
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Absolute Maximum Ratings (T_a = 25°C)

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	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:
5.0mm Multi-Color LED Lamp - Yellow / Green

SIZE A	DWG NO. M10001129	ELECTRONIC FILE L059YGW_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 5



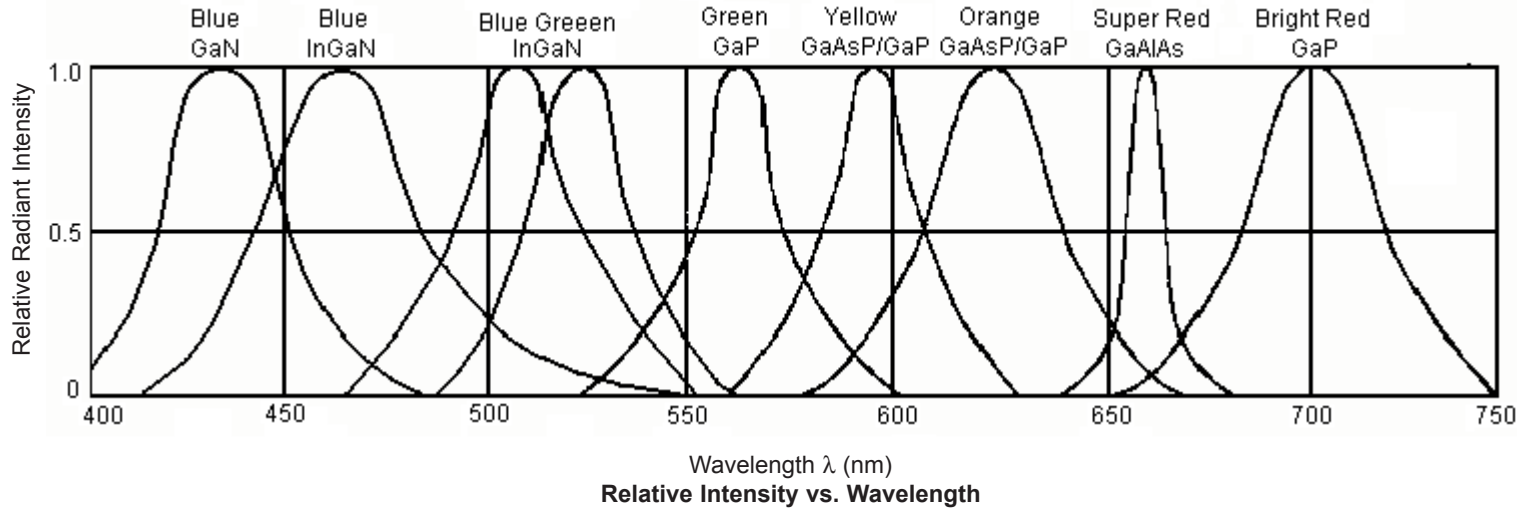
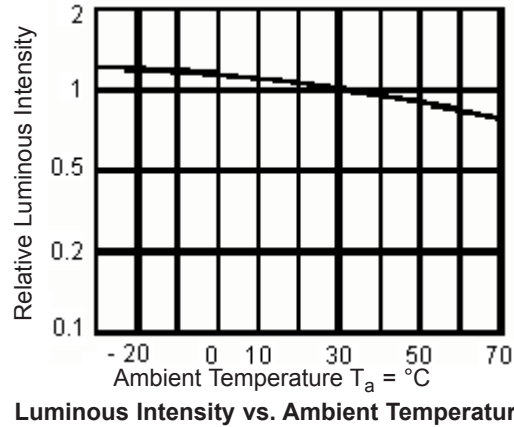
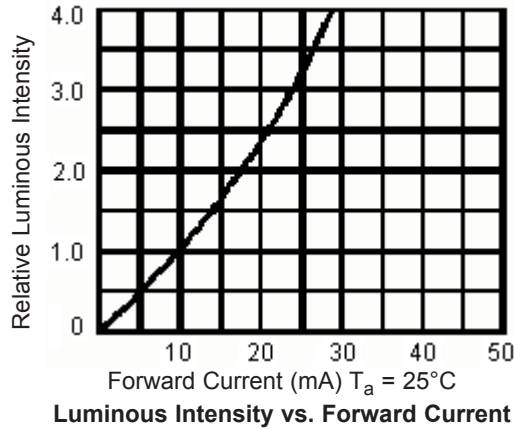
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Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)



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G.Cook	11/06/08

DRAWING TITLE:			
5.0mm Multi-Color LED Lamp - Yellow / Green			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001129	L059YGW_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 3 OF 5



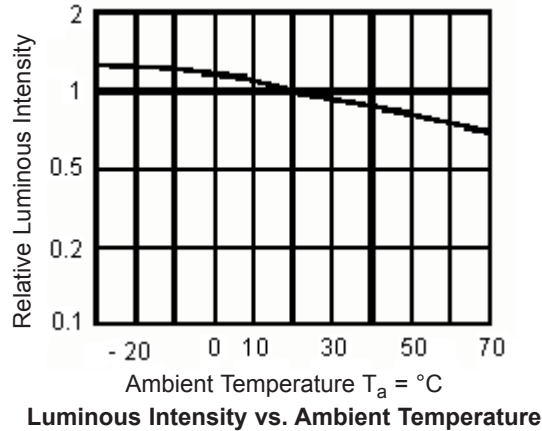
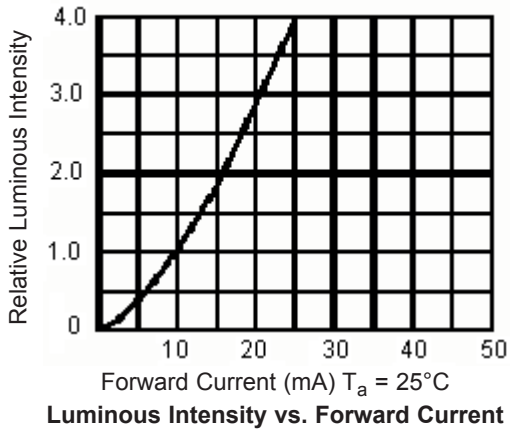
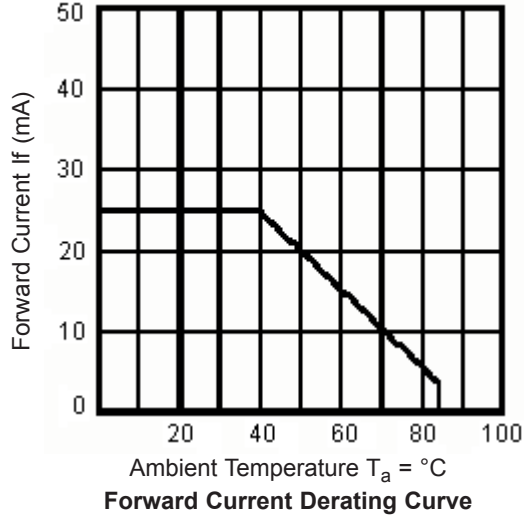
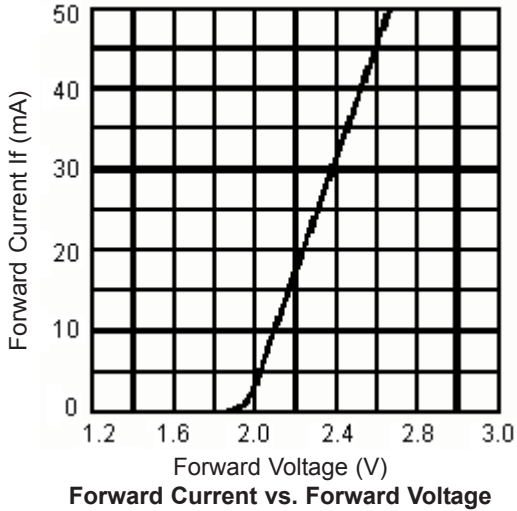
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Green (GaP $\lambda_P = 568\text{nm}$)



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Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

5.0mm Multi-Color LED Lamp - Yellow / Green

SIZE A	DWG NO. M10001129	ELECTRONIC FILE L059YGW_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 4 OF 5

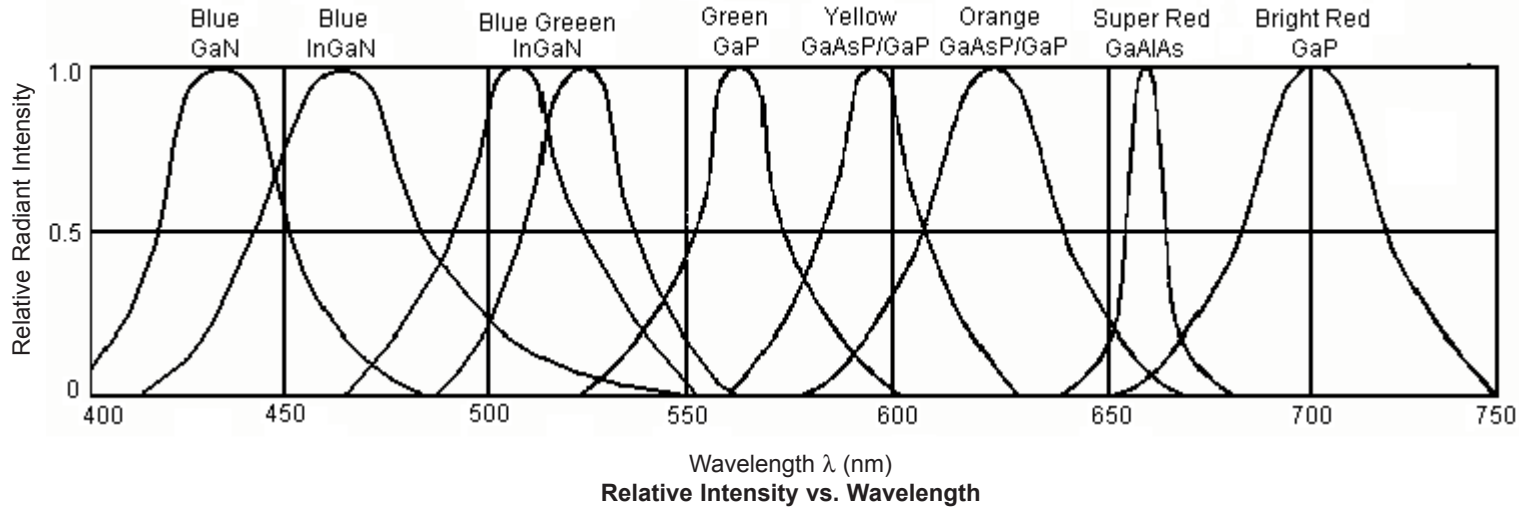


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Part Number Table

Description	Part Number
LED, 5mm, Yellow/Green	MCL059YGW

<http://www.farnell.com>

<http://www.newark.com>

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

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G.Cook	11/06/08

DRAWING TITLE:

5.0mm Multi-Color LED Lamp - Yellow / Green

SIZE A	DWG NO. M10001129	ELECTRONIC FILE L059YGW_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 5 OF 5