



PART NO.

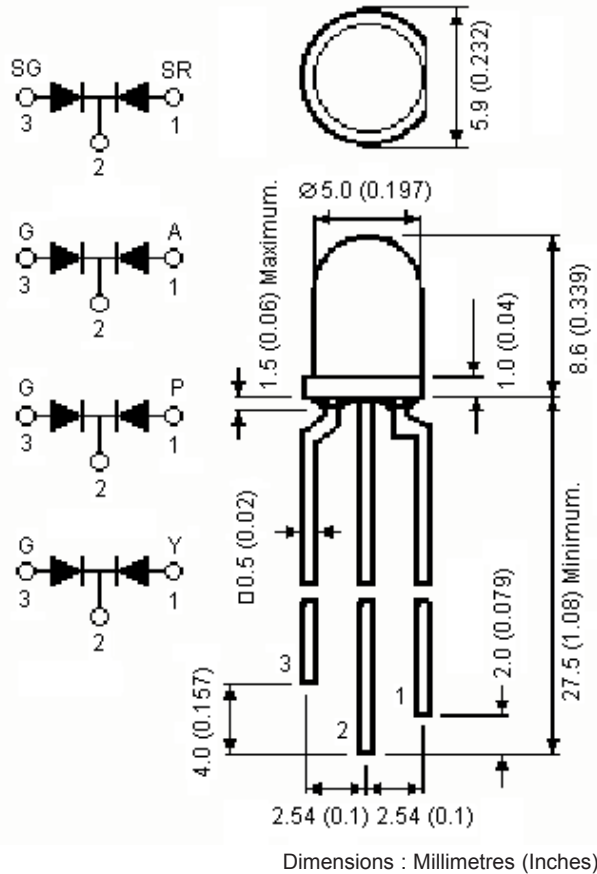
MCL059AGW

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 : Orange/green.  
 Lens color : White diffused.  
 Peak wavelength : 635/568nm.  
 Viewing angle : 45 degrees.  
 Luminous intensity (IV) : 16/15mcd.



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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	8/7	16/15	25/22	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	45	-	degrees	
Peak Emission Wavelength	• λ <sub>p</sub>	-	635/568	-	nm	-
Dominant Wavelength	• λ <sub>d</sub>	-	625/570	-		-
Spectral Line Half-Width	Δλ	-	45/30	-		-
Forward Voltage	VF	1.6/1.7	2.0/2.1	2.6/2.6	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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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 - Orange / Green

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001131	L059AGW_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 5	



PART NO.

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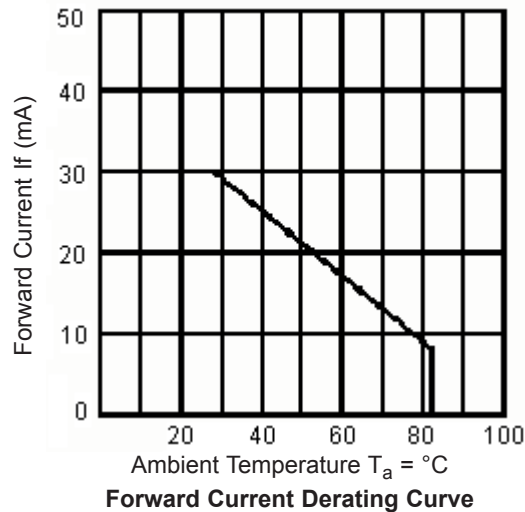
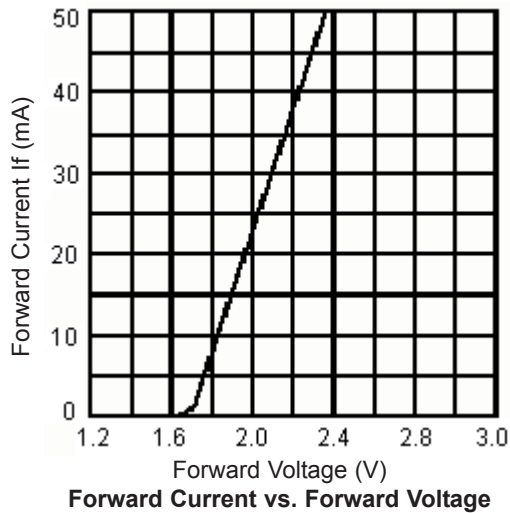
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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

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

**Orange (GaAsP/CaP λ<sub>P</sub> = 635nm)**



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G.Cook	11/06/08

<b>DRAWING TITLE:</b> 5.0mm Multi-Color LED Lamp - Orange / Green			
<b>SIZE</b> A	<b>DWG NO.</b> M10001131	<b>ELECTRONIC FILE</b> L059AGW_DWG	<b>REV</b> A
<b>SCALE:</b> NTS		<b>U.O.M.:</b> mm (Inches)	<b>SHEET:</b> 2 OF 5



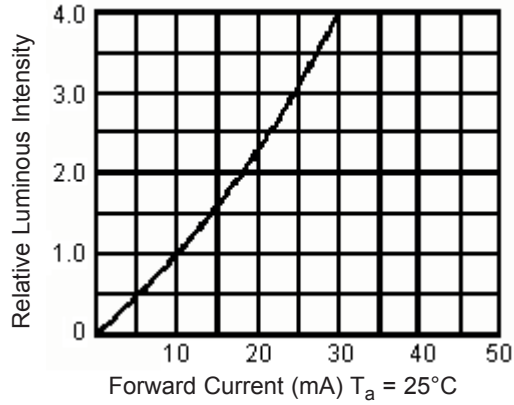
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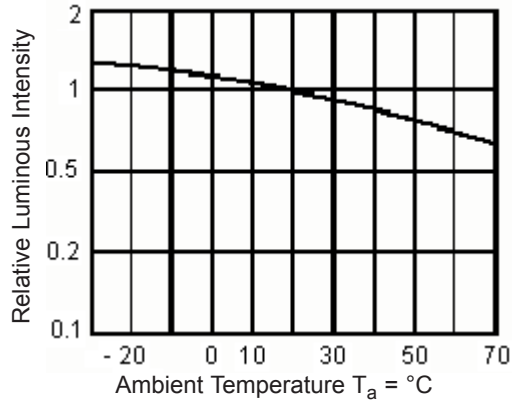
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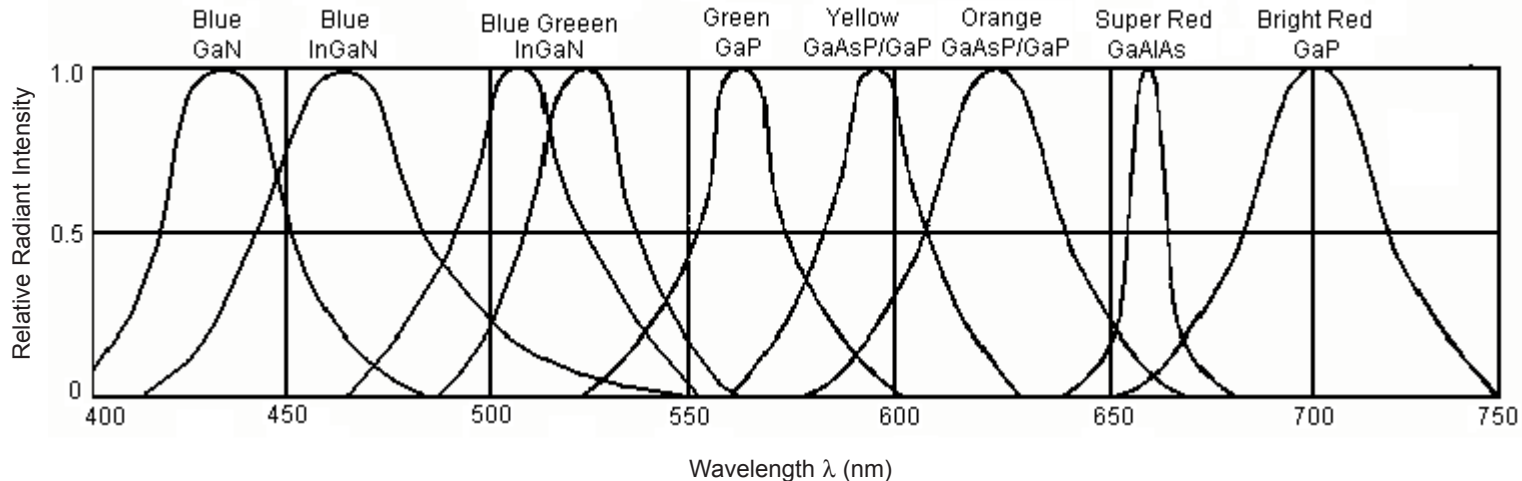
Orange (GaAsP/CaP  $\lambda_P = 635\text{nm}$ )



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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5.0mm Multi-Color LED Lamp - Orange / Green

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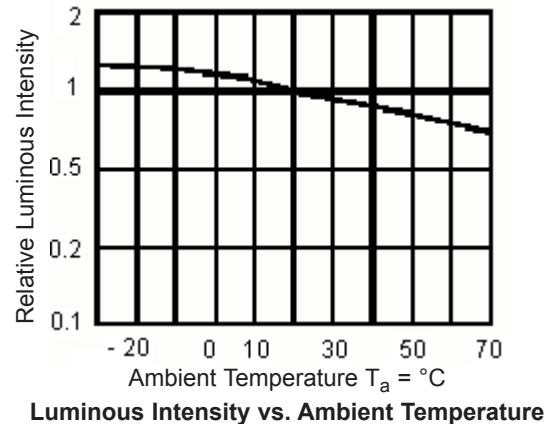
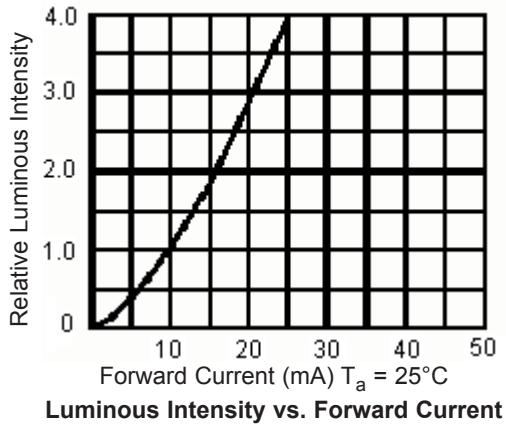
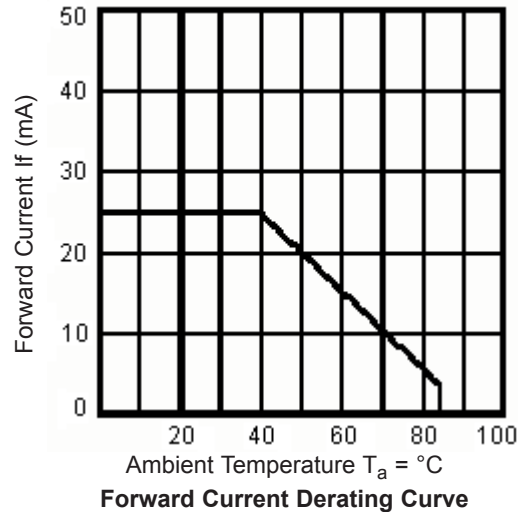
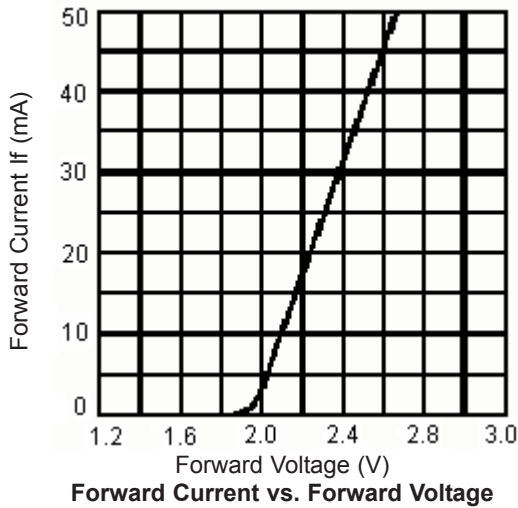
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Green (GaP  $\lambda_P = 568\text{nm}$ )



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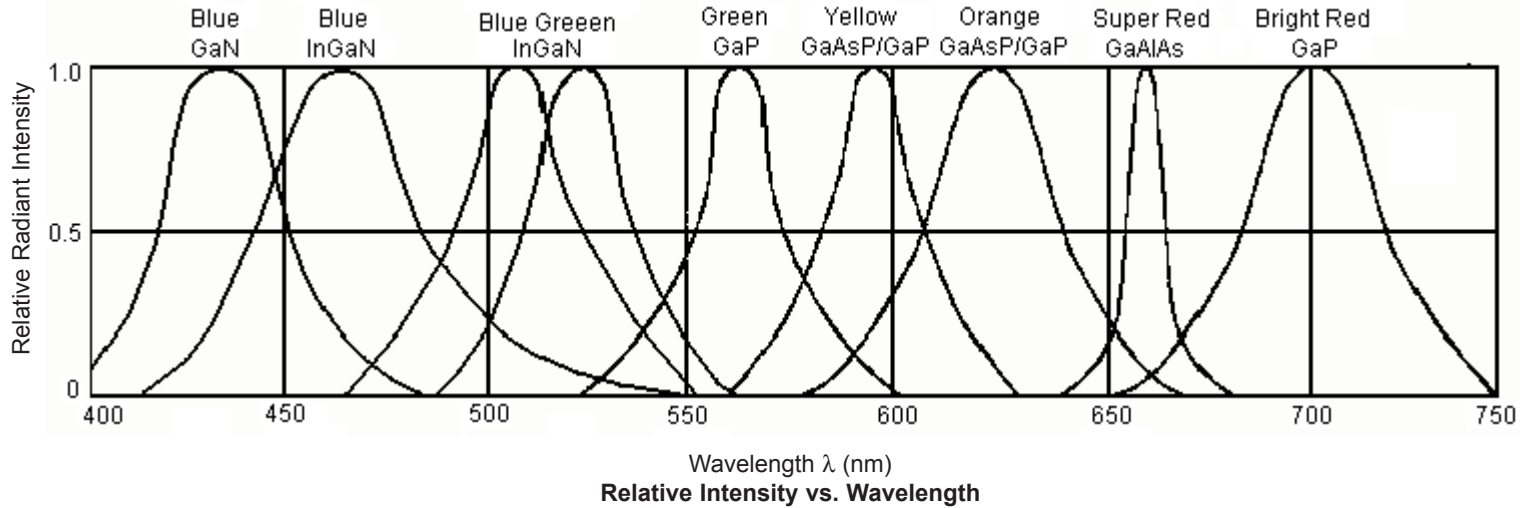


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Part Number Table

Description	Part Number
LED, 3mm, Orange/Green	MCL039AGW

<http://www.farnell.com>

<http://www.newark.com>

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

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