



PART NO.

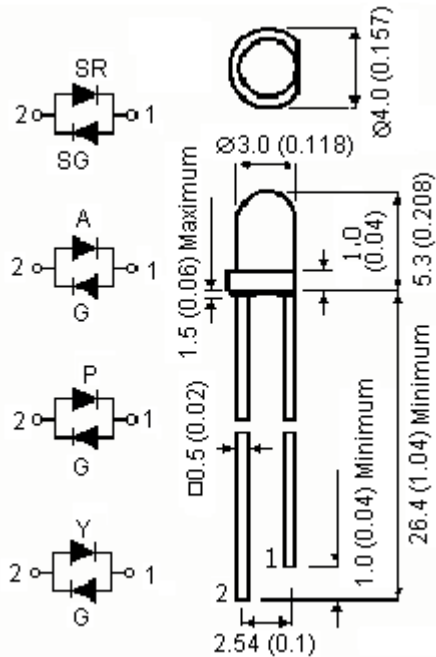
MCL036YGW

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

Specifications:

Dice material : GaAsP on GaP/GaP.
Emitted color : Yellow/green.
Lens color : White diffused.
Peak wavelength : 587/568nm.
Viewing angle : 76 degrees.
Luminous intensity (IV) : 11/10 mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	6/6	11/10	18/16	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	76	-	degrees	
Peak Emission Wavelength	• λ_p	-	587/568	-	nm	-
Dominant Wavelength	• λ_d	-	590/570	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	35/30	-		-
Forward Voltage	VF	1.7/1.7	2.1/2.1	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:

Veena

DATE:

28/05/08

CHECKED BY:

Suresh

DATE:

28/05/08

APPROVED BY:

G.Cook

DATE:

12/06/08

DRAWING TITLE:

3.0mm Bi-Color LED Lamp - Yellow / Green

SIZE
A

DWG NO.

M10001157

ELECTRONIC FILE
L036YGW_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 1 OF 5



PART NO.

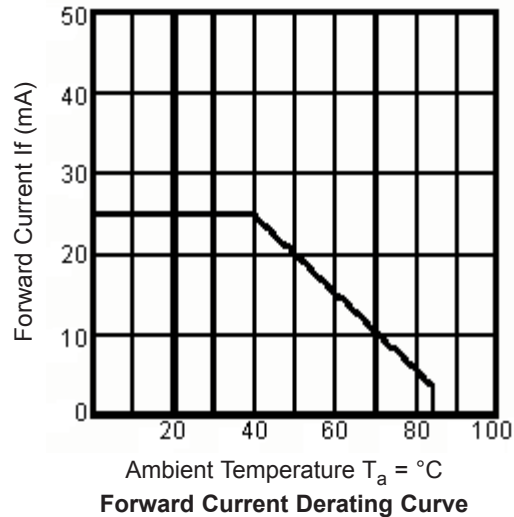
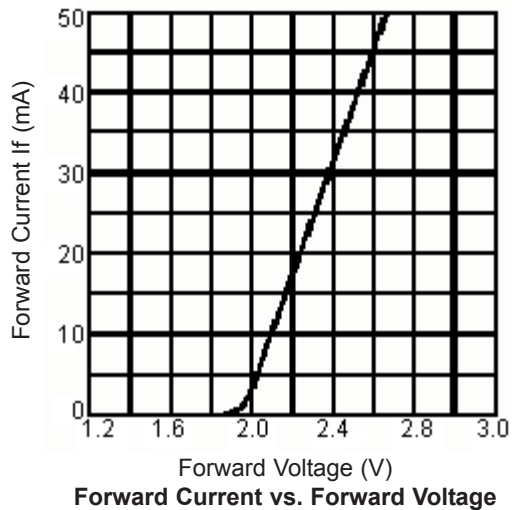
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Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Reverse Voltage	5 Volt
Reverse Current	10 μ A ($V_R = 5\text{V}$)
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 $\lambda_P = 587\text{nm}$)

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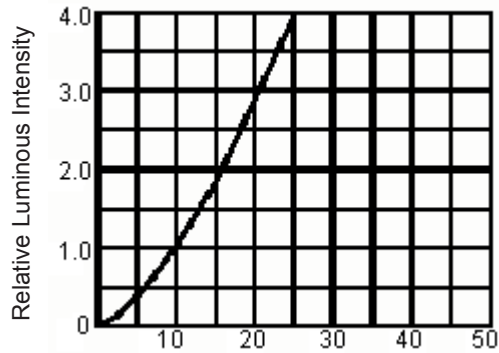


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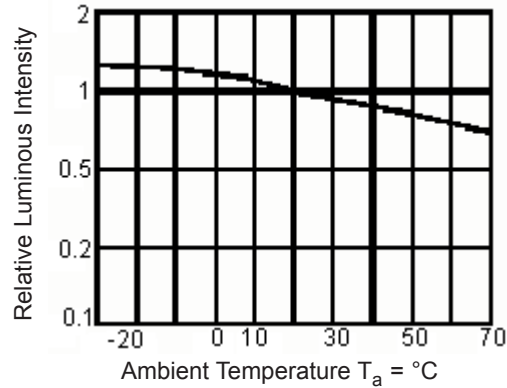
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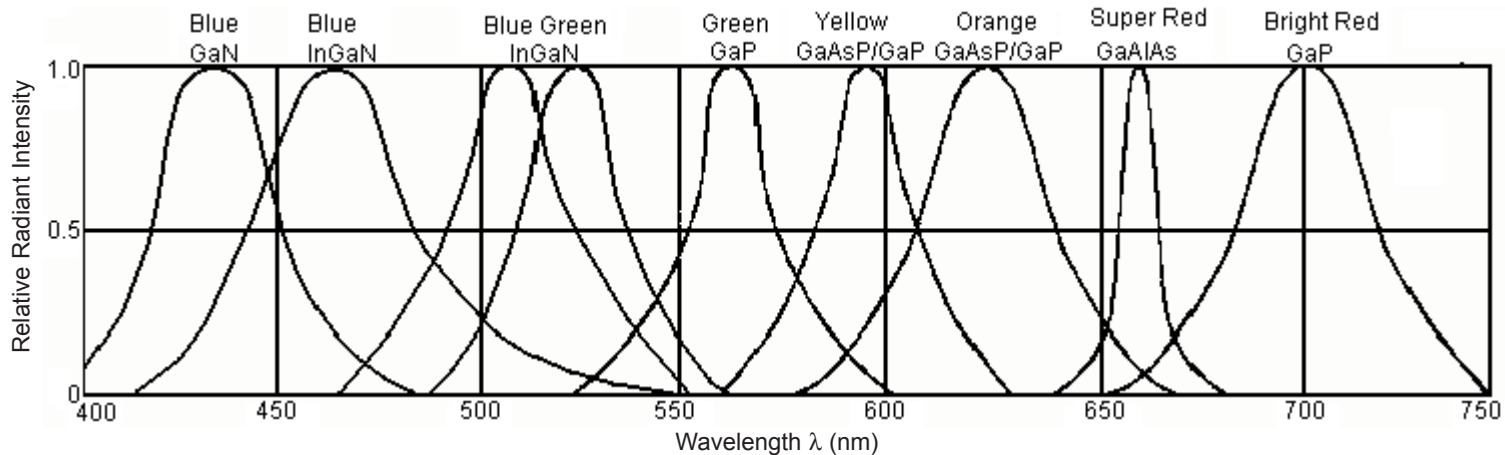
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Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)

Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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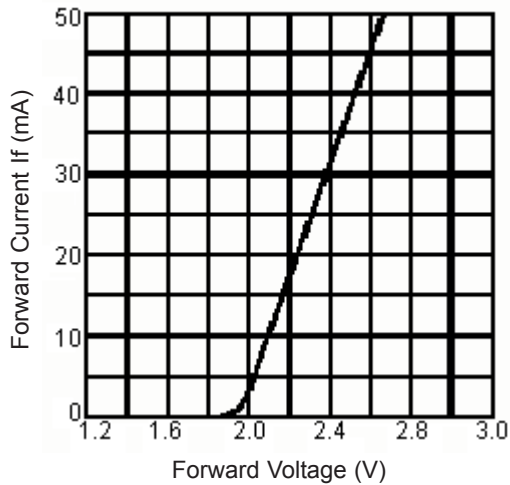


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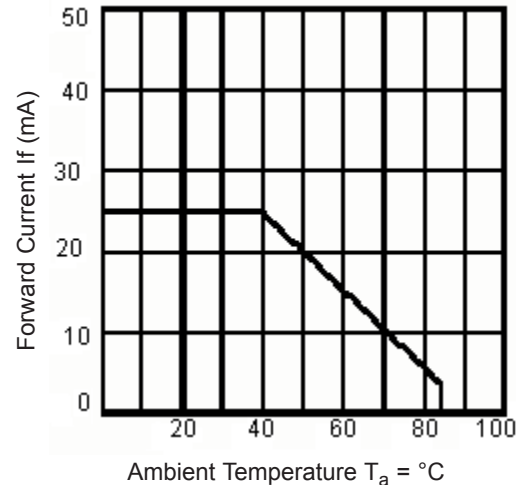
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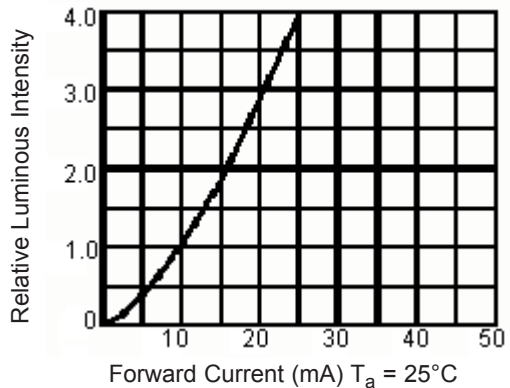
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Green (GaP $\lambda_P = 568\text{nm}$)

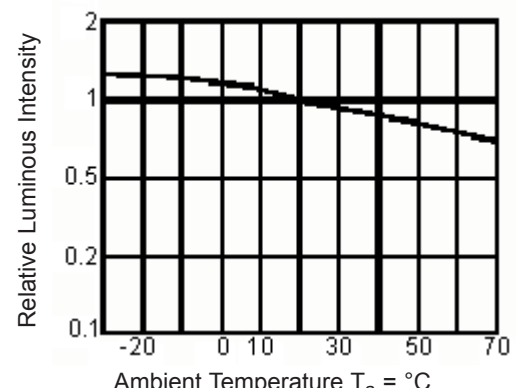
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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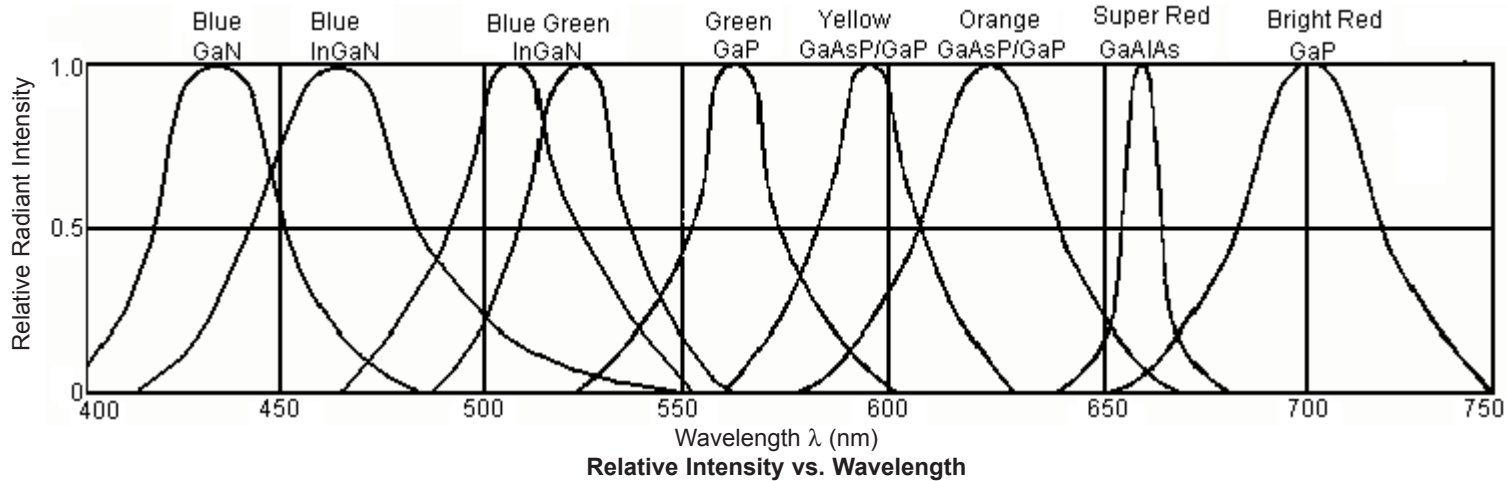


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Part Number Table

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LED, 3mm, AC, Yellow/Green	MCL036YGW

<http://www.farnell.com><http://www.newark.com><http://www.cpc.co.uk>

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