

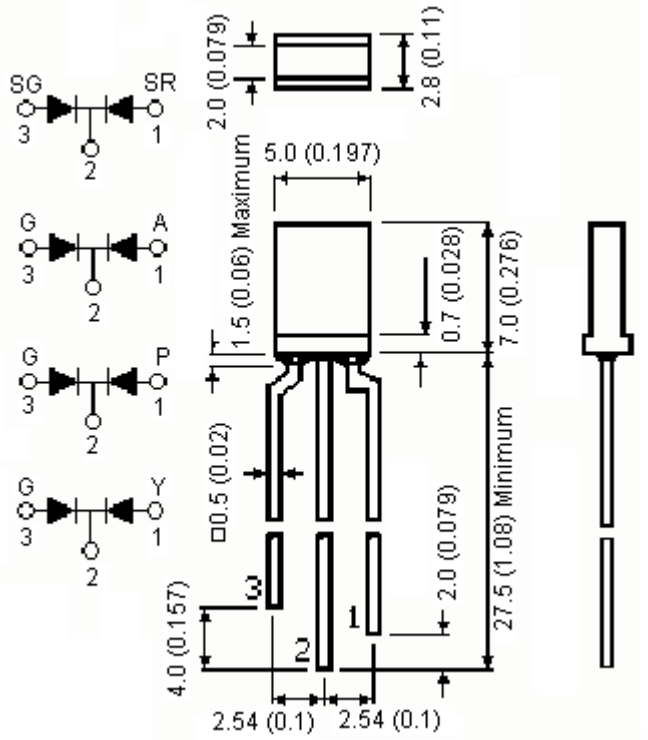


PART NO.

MCL239YGW

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08



Dimensions : Millimetres (Inches)

Specifications:

Dice material : GaAsP on GaP/GaP.
 Emitted color : Yellow/green.
 Lens color : White diffused.
 Peak wavelength : 587/568nm.
 Viewing angle : 120 degrees.
 Luminous intensity (IV) : 3.2/3.1mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.5/1.4	3.2/3.1	5.0/4.9	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	120	-	degrees	
Peak Emission Wavelength	• p	-	587/568	-	nm	-
Dominant Wavelength	• D	-	590/570	-		-
Spectral Line Half-Width	Δλ	-	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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TOLERANCES:
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Veena	25/06/08
CHECKED BY:	DATE:
Suresh	25/06/08
APPROVED BY:	DATE:
G.Cook	10/07/08

DRAWING TITLE:			
2.0mm x 5.0mm x 7.0mm Multi-color LED Lamp - Yellow/Green			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001264	L239YGW_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 5



PART NO.

MCL239YGW

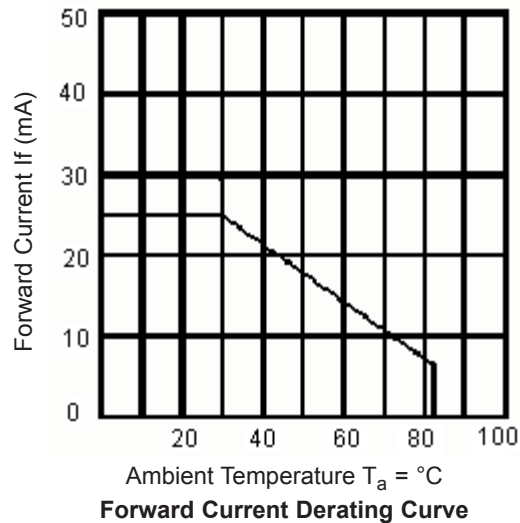
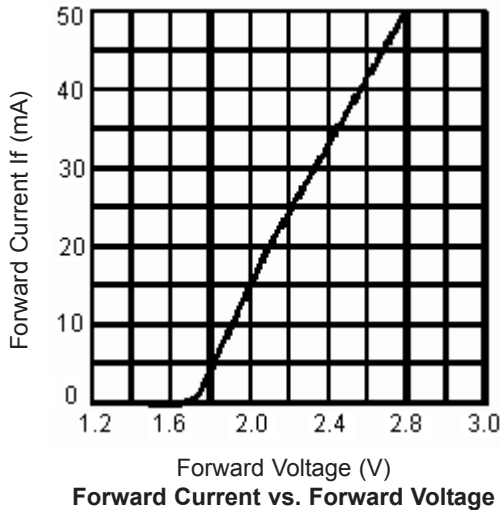
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Absolute Maximum Ratings (T_a = 25°C)

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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DRAWING TITLE:

2.0mm x 5.0mm x 7.0mm Multi-color LED Lamp - Yellow/Green

SIZE A	DWG NO. M10001264	ELECTRONIC FILE L239YGW_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 5



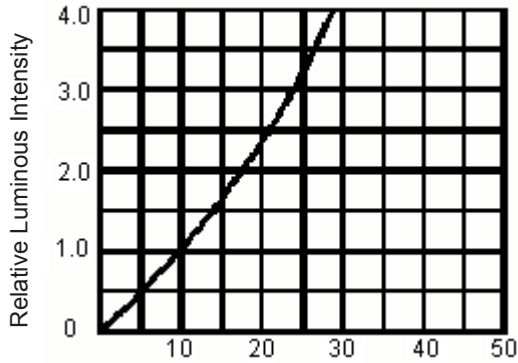
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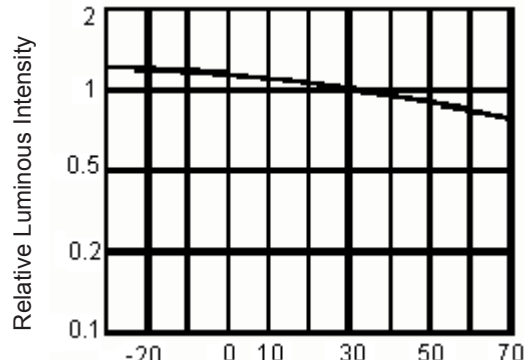
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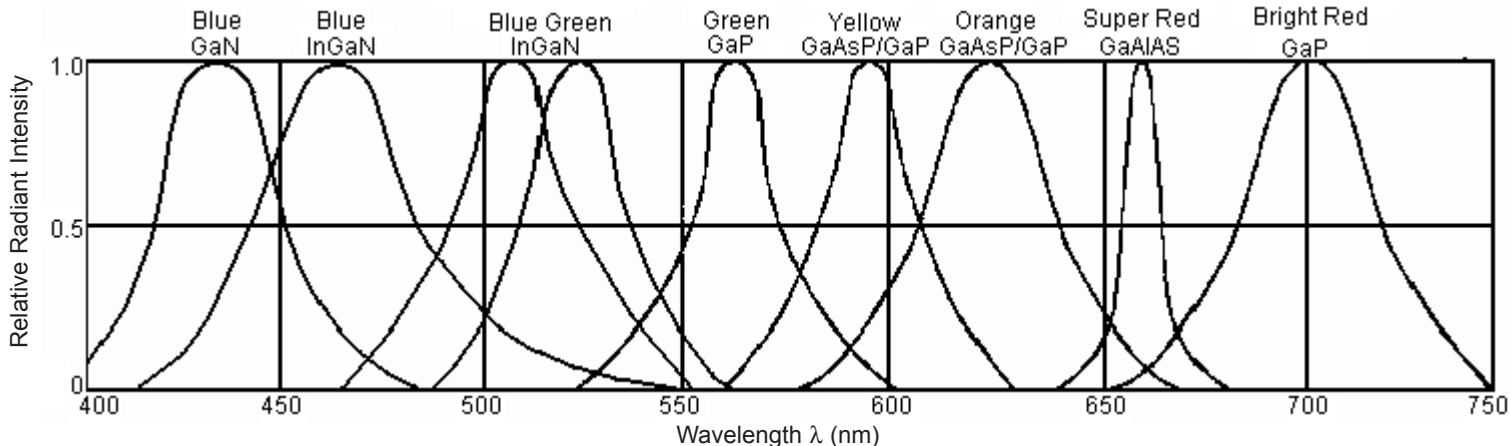
Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)



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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SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 3 OF 5



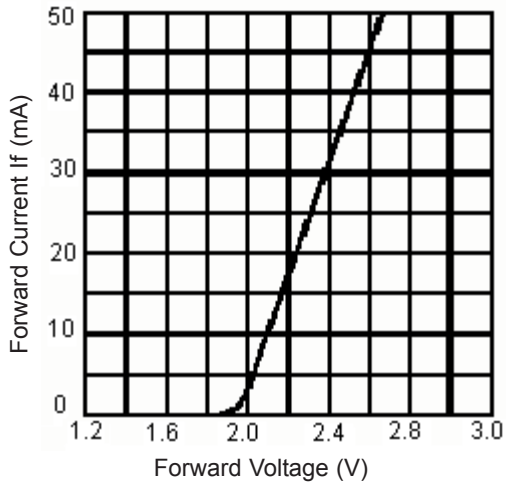
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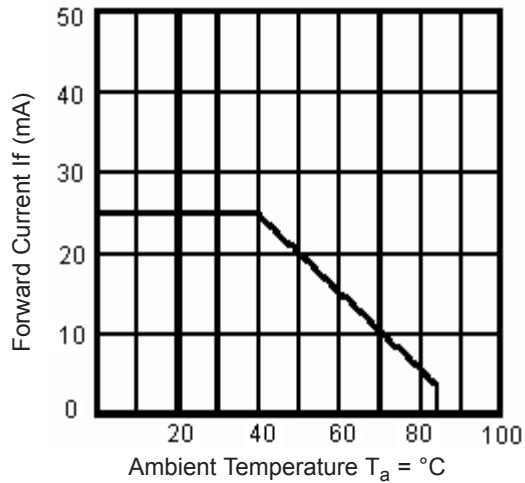
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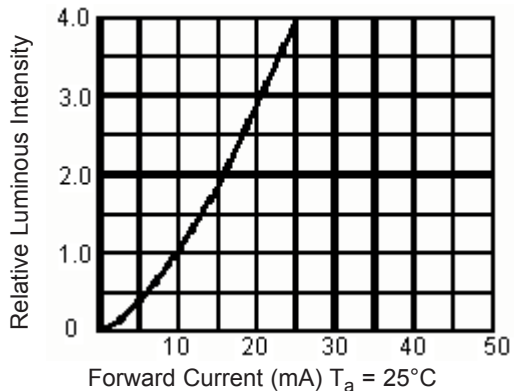
Green (GaP $\lambda_P = 568\text{nm}$)



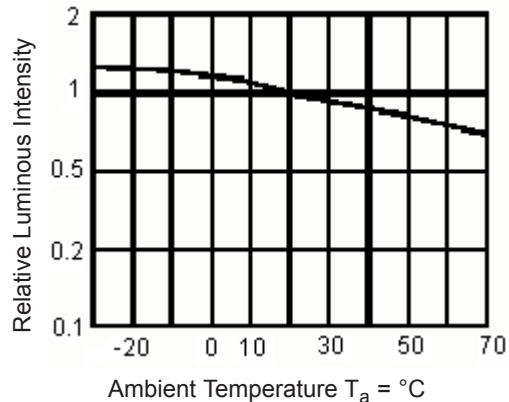
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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2.0mm x 5.0mm x 7.0mm Multi-color LED Lamp - Yellow/Green

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A	M10001264	L239YGW_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 OF 5	

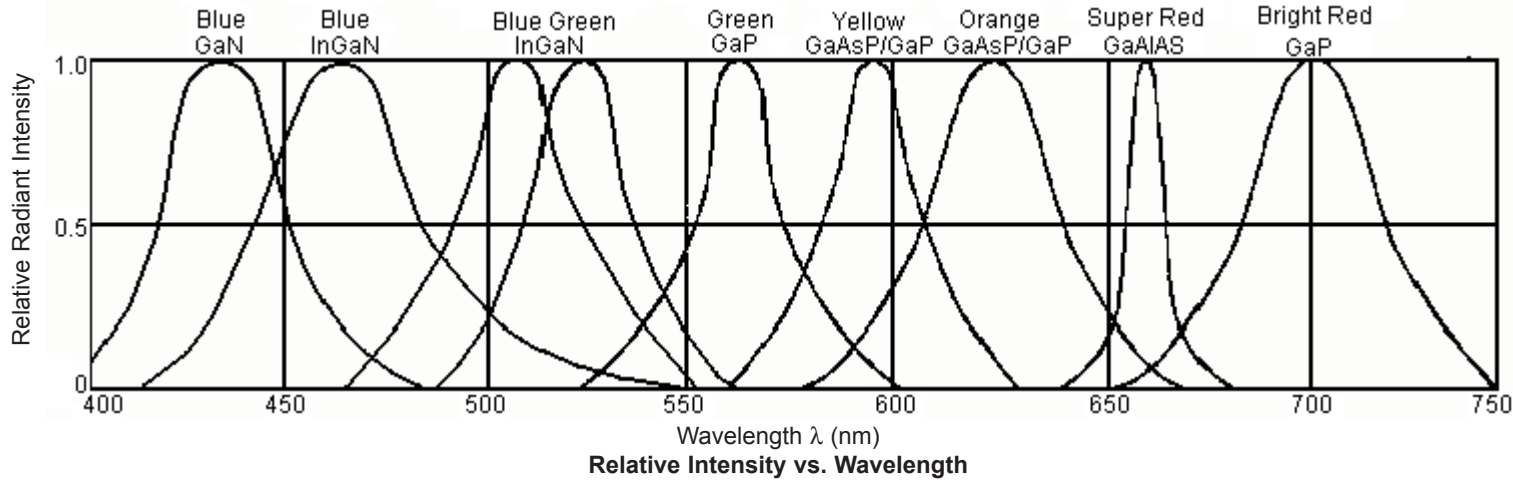


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Part Number Table

Description	Part Number
LED, 2mm x 5mm, Yellow/Green	MCL239YGW

<http://www.farnell.com>

<http://www.newark.com>

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

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SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 5 OF 5	