

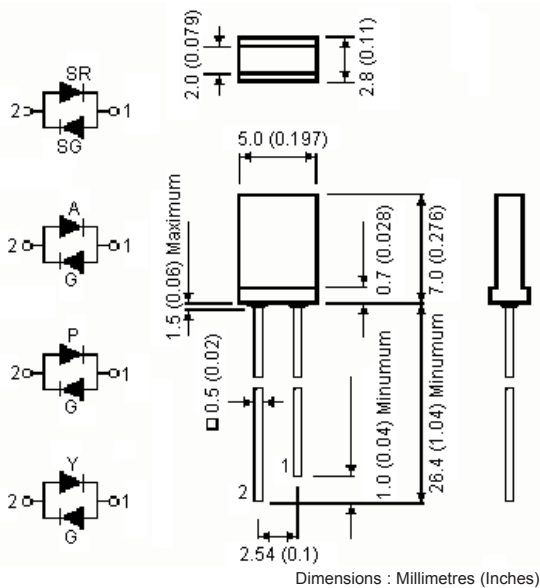


PART NO.

MCL236YGW

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	23/9/08	Suresh	23/9/08	Farnell	7/10/08



Specifications:

Dice material : GaAsP on GaP/GaP.
 Emitted colour : Yellow/green.
 Lens colour : 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	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	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-		-

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DRAWN BY:	DATE:
Veena	23/09/08
CHECKED BY:	DATE:
Suresh	23/09/08
APPROVED BY:	DATE:
Farnell	07/10/08

DRAWING TITLE:			
2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - Yellow / Green			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001757	L236YGW_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 5	



PART NO.

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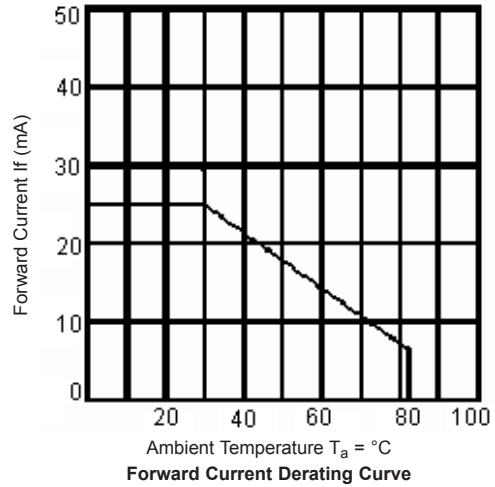
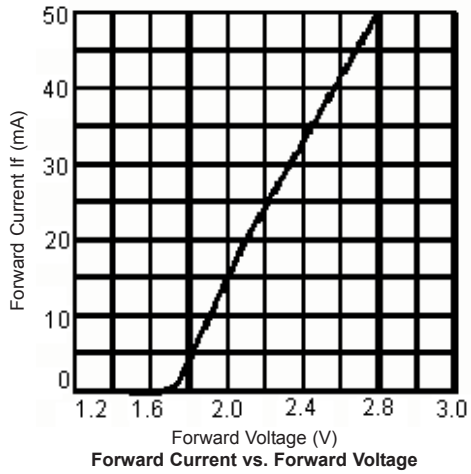
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Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Reverse Voltage	5 Volt
Reverse Current	10 μA ($V_R = 5\text{V}$)
Operating Temperature Range	-40 $^\circ\text{C}$ to 85 $^\circ\text{C}$
Storage Temperature Range	-40 $^\circ\text{C}$ to 100 $^\circ\text{C}$
Lead Soldering Temperature Range [1.6mm (1/16 inch) from body]	260 $^\circ\text{C}$ for 5 Seconds

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



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SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 5



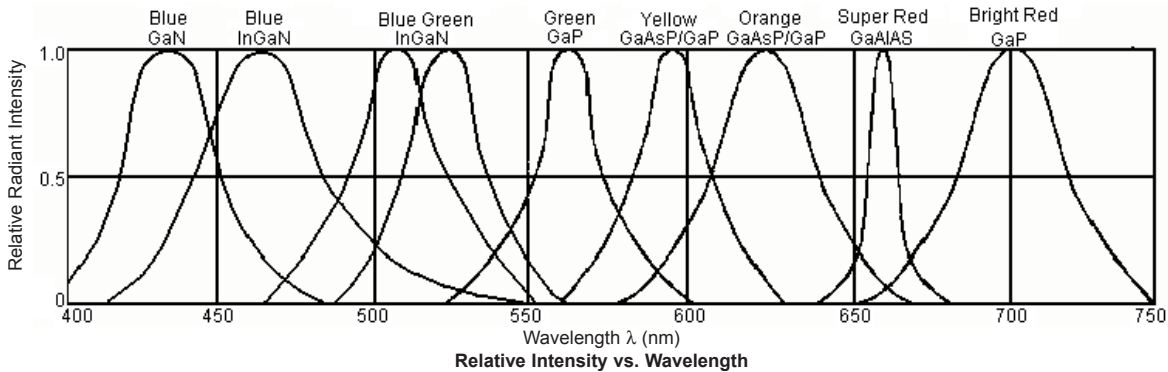
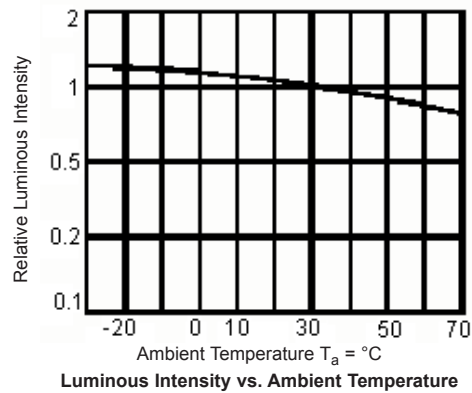
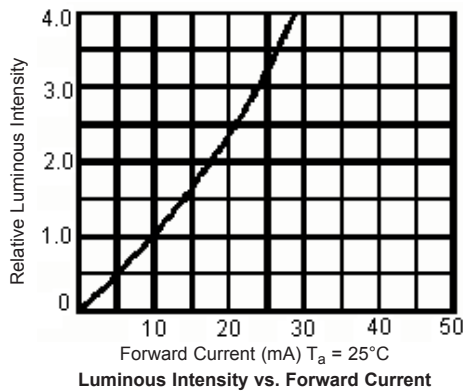
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Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)



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2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - Yellow / Green

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



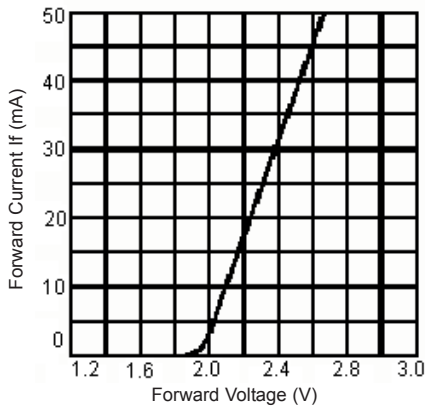
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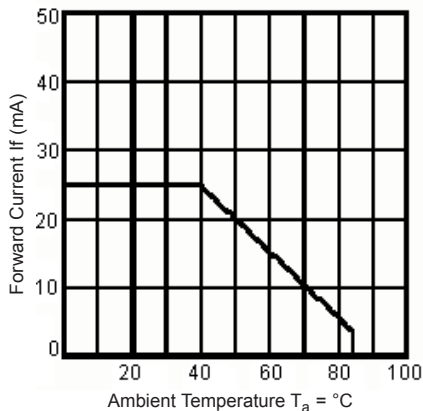
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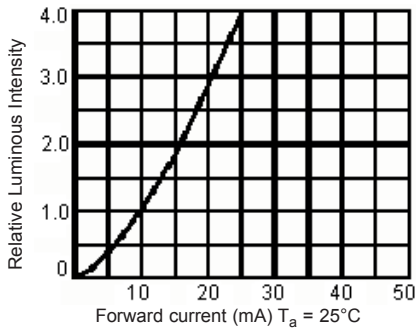
Green (GaP $\lambda_P = 568\text{nm}$)



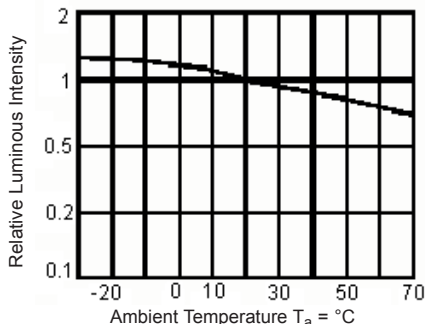
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001757	L236YGW_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 4 OF 5

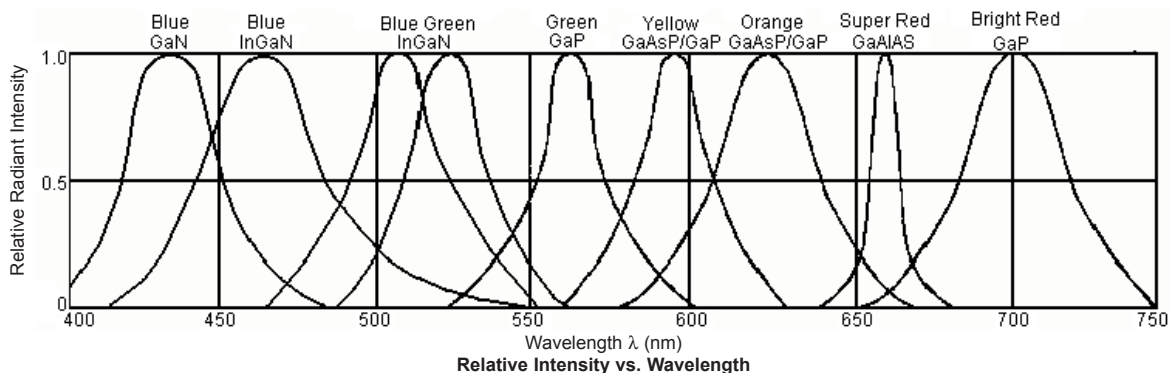


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Part Number Table

Description	Part Number
LED, 2mm x 5mm, AC, Hi-Red/Green	MCL236SRGW

<http://www.farnell.com>

<http://www.newark.com>

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

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2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - Yellow / Green

SIZE A	DWG NO. M10001757	ELECTRONIC FILE L236YGW_DWG	REV A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 5 OF 5	