

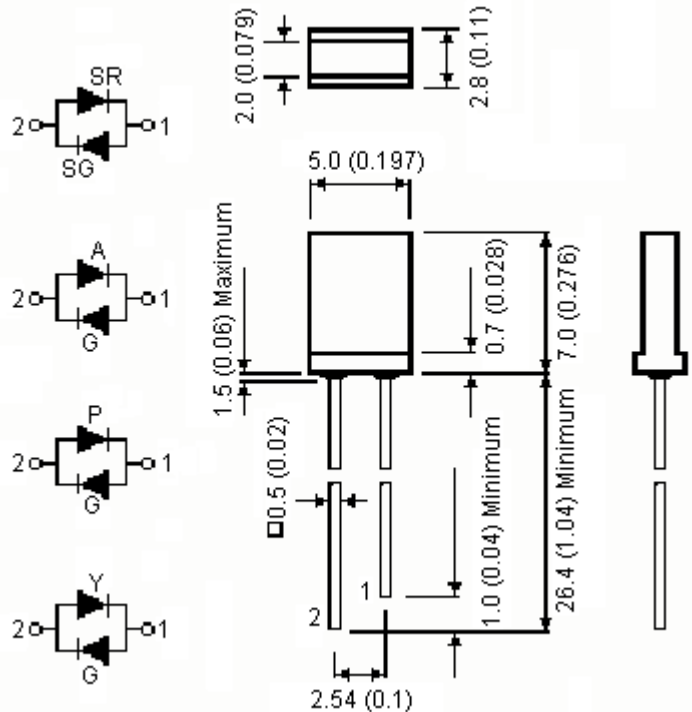


PART NO.

MCL236AGW

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 : Orange/green.  
 Lens colour : White diffused.  
 Peak wavelength : 635/568nm.  
 Viewing angle : 120 degrees.  
 Luminous intensity (IV) : 3.2/3.1mcd.



Electrical/Optical Characteristics at T<sub>a</sub> = 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 <sub>p</sub>	-	635/568	-	nm	-
Dominant Wavelength	λ <sub>D</sub>	-	627/570	-		-
Spectral Line Half-width	Δλ	-	45/30	-		-
Forward Voltage	V <sub>F</sub>	1.6/1.7	2.0/2.1	2.6/2.6	V	IF = 20mA
Power Dissipation	P <sub>d</sub>	-	-	85	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-		-

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Suresh	23/09/08
<b>APPROVED BY:</b>	<b>DATE:</b>
Farnell	07/10/08

<b>DRAWING TITLE:</b>			
2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - Orange / Green			
<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
A	M10001756	L236AGW_DWG	A
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 1 OF 5</b>



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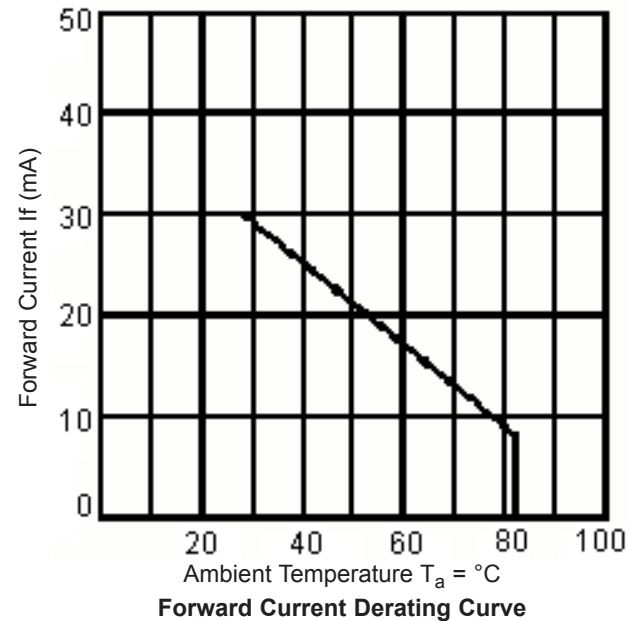
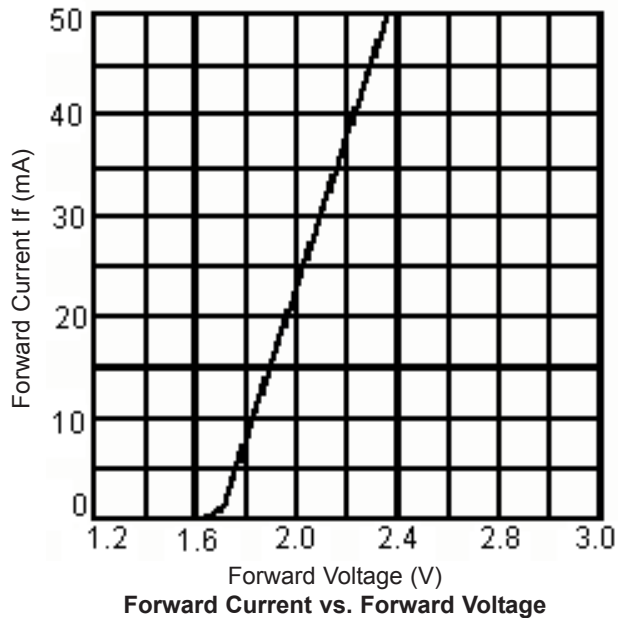
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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

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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<b>SCALE:</b> NTS		<b>U.O.M.:</b> mm (Inches)	<b>SHEET:</b> 2 OF 5



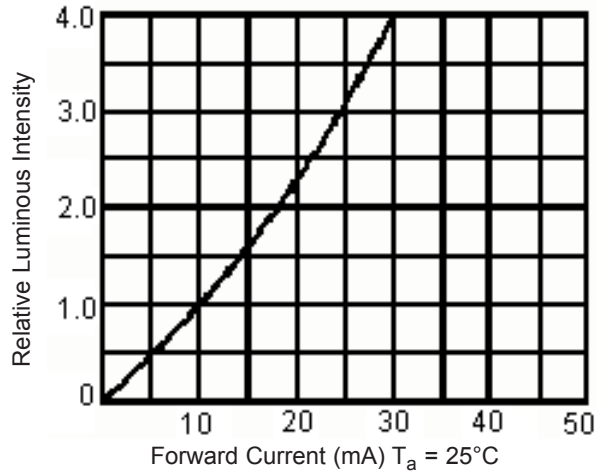
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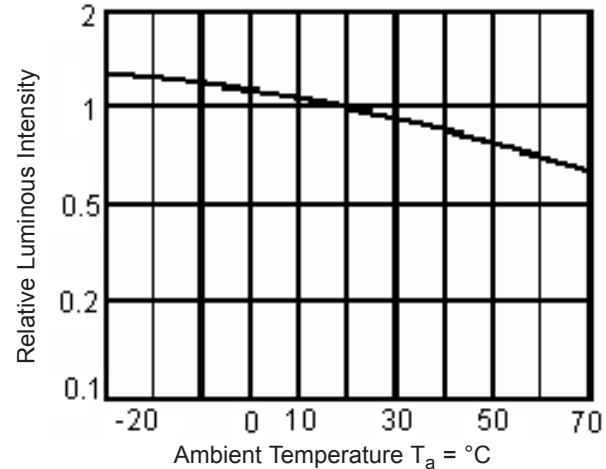
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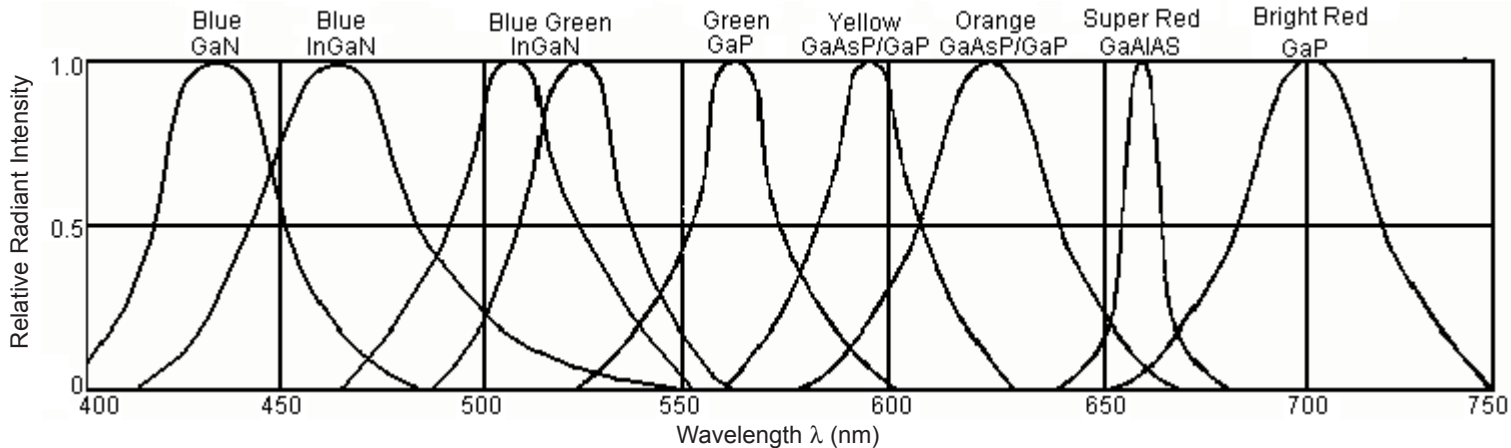
Orange (GaAsP/CaP  $\lambda_P = 635\text{nm}$ )



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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DRAWING TITLE:

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



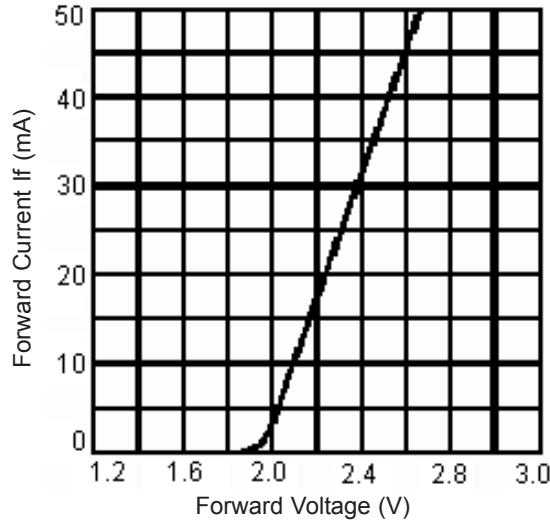
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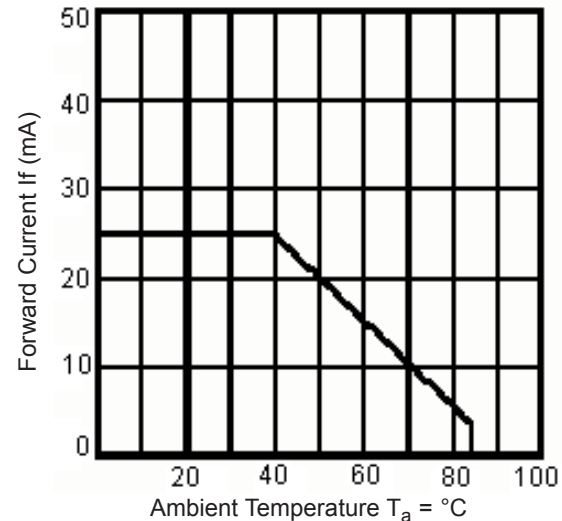
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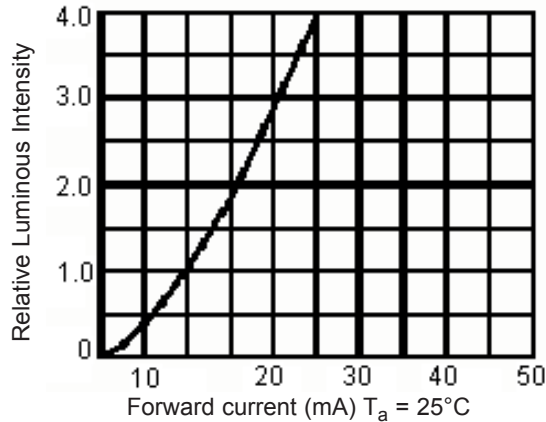
Green (GaP  $\lambda_P = 568\text{nm}$ )



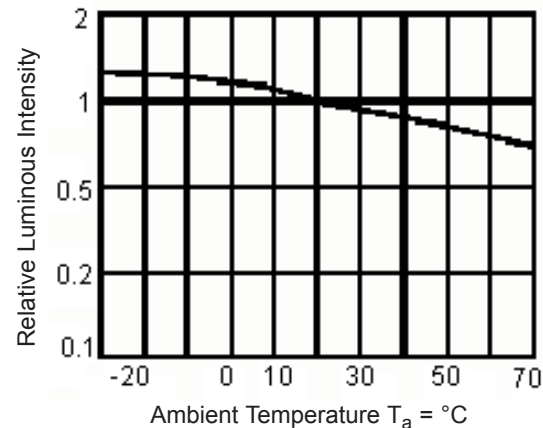
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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DRAWING TITLE:

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

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001756	L236AGW_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 OF 5	

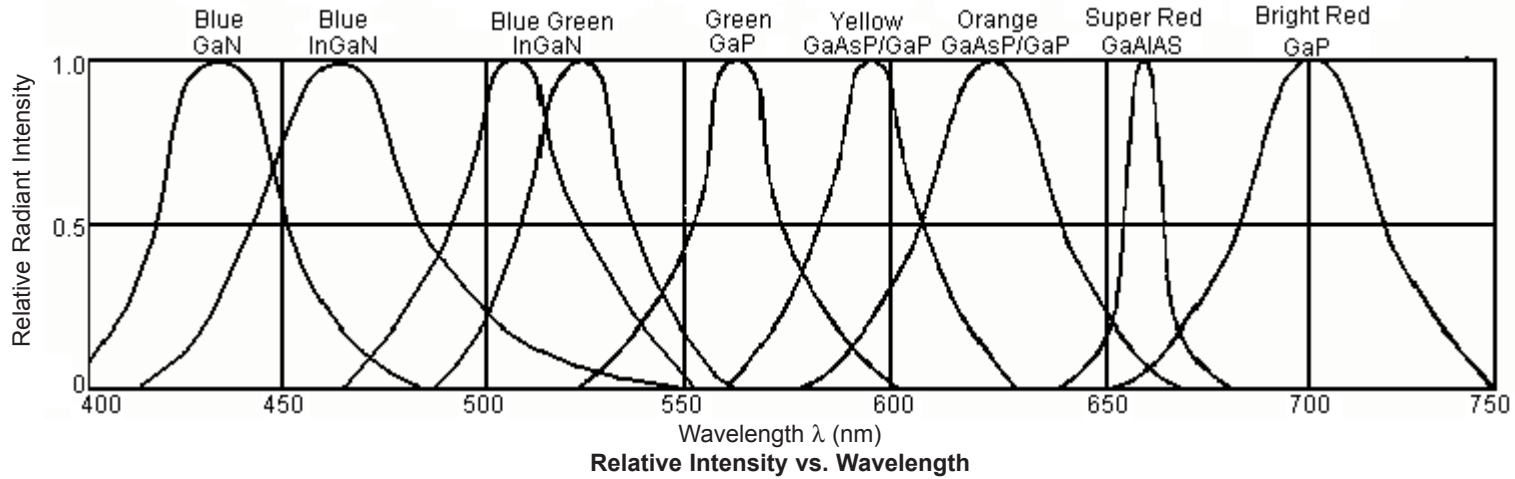


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Part Number Table

Description	Part Number
LED, 2mm x 5mm, AC, Orange/Green	MCL236AGW

<http://www.farnell.com>

<http://www.newark.com>

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

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SIZE <b>A</b>	DWG NO. <b>M10001756</b>	ELECTRONIC FILE L236AGW_DWG	REV <b>A</b>
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 5 OF 5