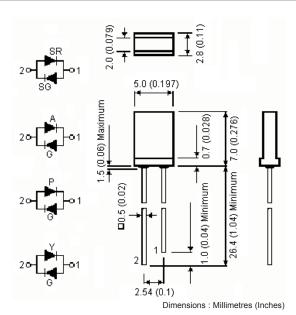


MCL236AGW

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	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
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	1 IF - 2011IA
Peak Emission Wavelength	λр	-	635/568	-		-
Dominant Wavelength	λD	-	627/570	-	nm	-
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	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-	IIIA	-

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Suresh	23/09/08
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Farnell	07/10/08

DRAWING TITLE:

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

SIZE DWG NO. M10001756 ELECTRONIC FILE L236AGW_DWG A

SCALE: NTS U.O.M.: mm (Inches) SHEET: 1 OF 5



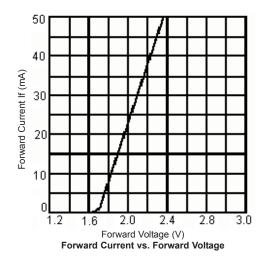
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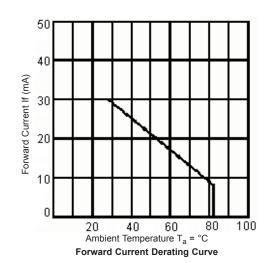
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-	Α	RELEASED	Veena	23/9/08	Suresh	23/9/08	Farnell	7/10/08

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

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

Orange (GaAsP/CaP λ P = 635nm)





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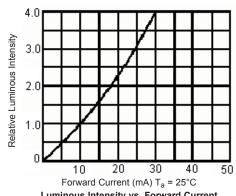
| DRAWING TITLE: | 2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - Orange / Green | SIZE | DWG NO. | M10001756 | ELECTRONIC FILE | L236AGW_DWG | A | SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 2 OF 5



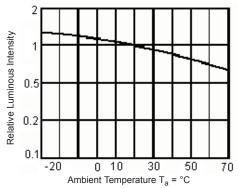
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-	Α	RELEASED	Veena	23/9/08	Suresh	23/9/08	Farnell	7/10/08

Orange (GaAsP/CaP λ P = 635nm)

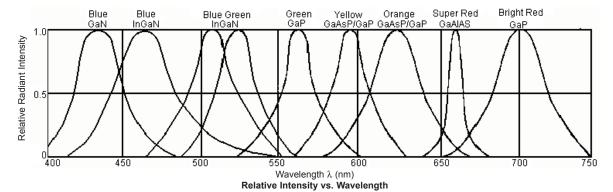


Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

SCALE: NTS



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DATE: DRAWN BY: 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 - Orange / Green REV ELECTRONIC FILE SIZE DWG NO. M10001756 L236AGW_DWG Α

U.O.M.: mm (Inches)

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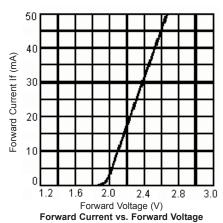
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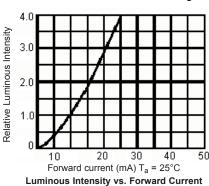


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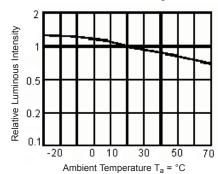
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Green (GaP λ P = 568nm)





40 Forward Current If (mA) 30 20 20 80 100 Ambient Temperature $T_a = {^{\circ}C}$ Forward Current Derating Curve



Luminous Intensity vs. Ambient Temperature

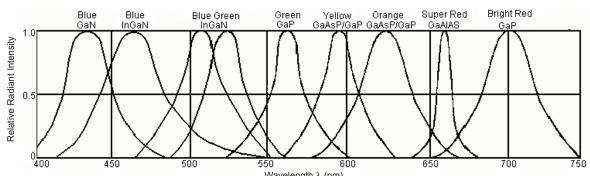
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 $\label{eq:wavelength} Wavelength \; \lambda \; (nm) \\ \textbf{Relative Intensity vs. Wavelength}$

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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