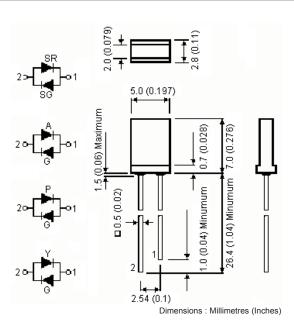


MCL236YGW

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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 : 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	1 - 2011IA
Peak Emission Wavelength	λρ	-	587/568	-		-
Dominant Wavelength	λD	-	590/570	-	nm	-
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	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 - Yellow / Green | SIZE | DWG NO. | M10001757 | ELECTRONIC FILE | L236YGW_DWG | A | SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 OF 5



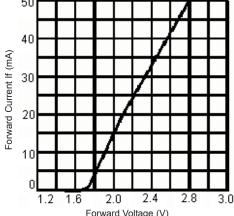
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Absolute Maximum Ratings ($T_a = 25$ °C)

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)



Forward Voltage (V) Forward Current vs. Forward Voltage ng to the Premier Farnell Group
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	40		П	П							П	
Forward Current If (mA)	30											
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										1		
	0		2	0	4	0	6	0	-	30	10	0
			An	nbier	nt Ter	nper	ature	: T _a =	°C			

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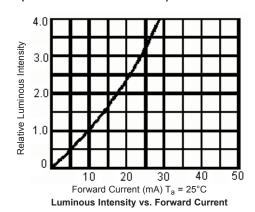
DRAWING TITLE:											
2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - Yellow / Gree											
SIZE	DWG NO. M10001757			TRONIC FIL			REV A				
SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	2	OF	5				



MCL236YGW

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

Yellow (GaAsP/GaP λ P = 587nm)



0.5

O.2

O.1

-20

O 10

30

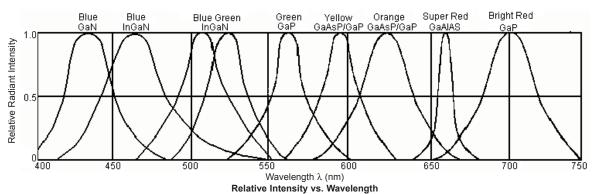
50

70

Ambient Temperature T_a = °C

Luminous Intensity vs. Ambient Temperature

SCALE: NTS



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 DATE:

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 23/09/08

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 DATE:

 Farnell
 07/10/08

DRAWING TITLE:

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

SIZE DWG NO. M10001757 ELECTRONIC FILE L236YGW_DWG A

SHEET:

3 OF

U.O.M.: mm (Inches)

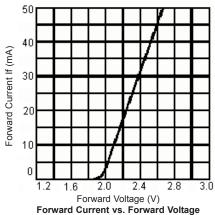
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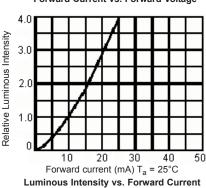


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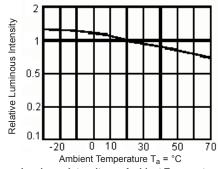
Green (GaP λ P = 568nm)





Ambient Temperature T_a = °C

Forward Current Derating Curve



Luminous Intensity vs. Ambient Temperature

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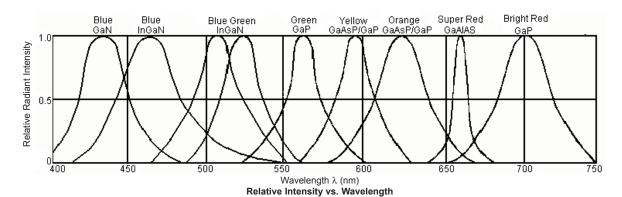
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-	Α	RELEASED	Veena	23/9/08	Suresh	23/9/08	Farnell	7/10/08



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.cpc.co.uk

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DRAWING TITLE:							
2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - Yellow / Green							
SIZE	DWG NO.	440004757	ELECTRONIC FILE				REV
Α	ı	M10001757	L236YGW_DWG				Α
SCAL	E: NTS	U.O.M.: mm (Inches)	SHEET:	5	OF	5	