



PART NO.

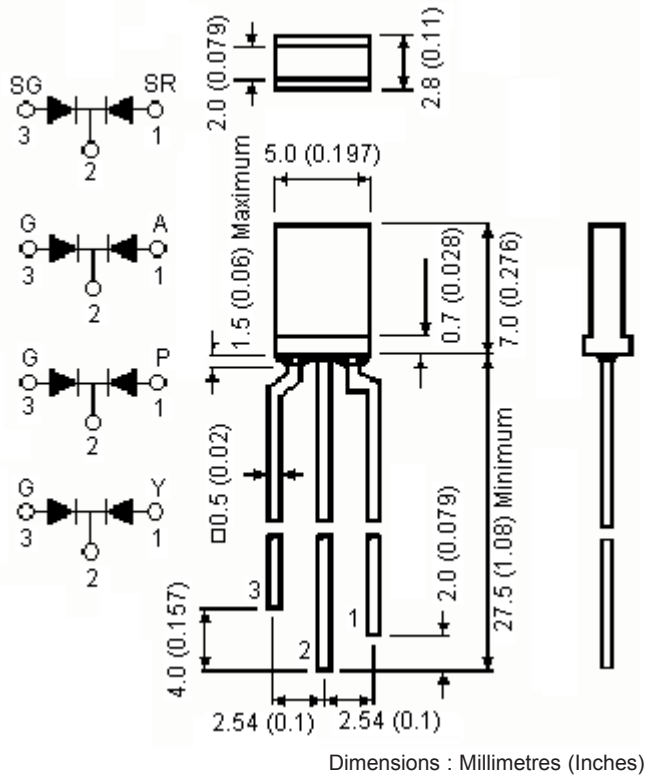
MCL239AGW

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

Specifications:

Dice material : GaAsP on GaP/GaP.
 Emitted color : Orange/green.
 Lens color : White diffused.
 Peak wavelength : 635/568nm.
 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	-	635/568	-	nm	-
Dominant Wavelength	• λ _d	-	627/570	-		-
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	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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DRAWN BY:	DATE:
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-Orange/Green			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001262	L239AGW_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 5



PART NO.

MCL239AGW

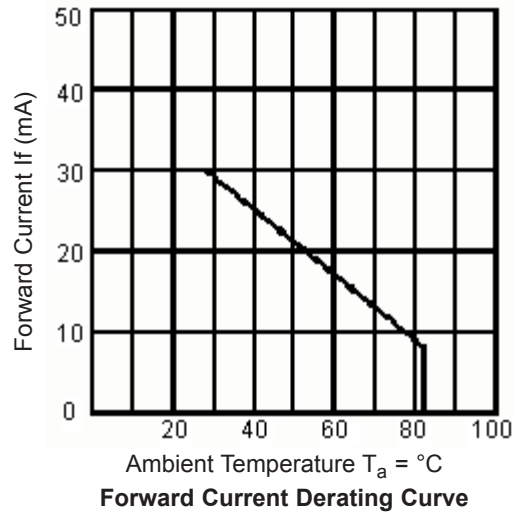
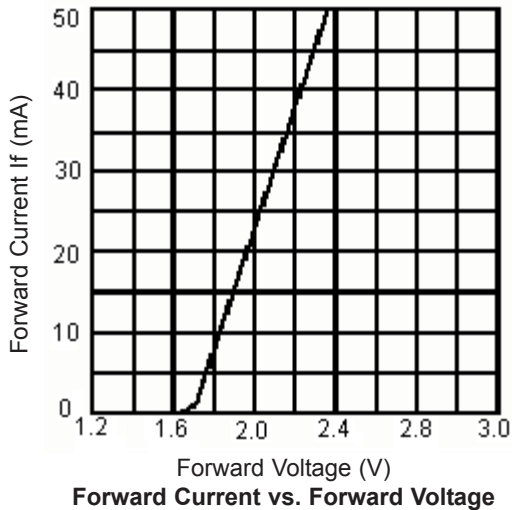
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Absolute Maximum Ratings (T_a = 25°C)

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

Orange (GaAsP/CaP λ_P = 635nm)



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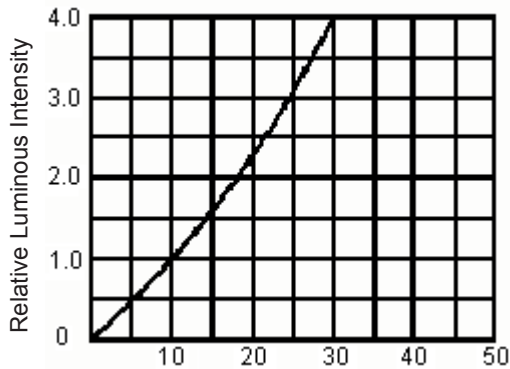
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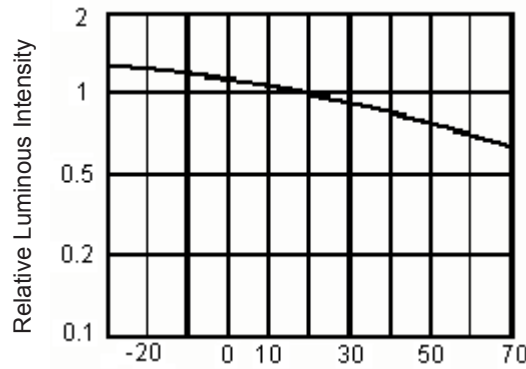
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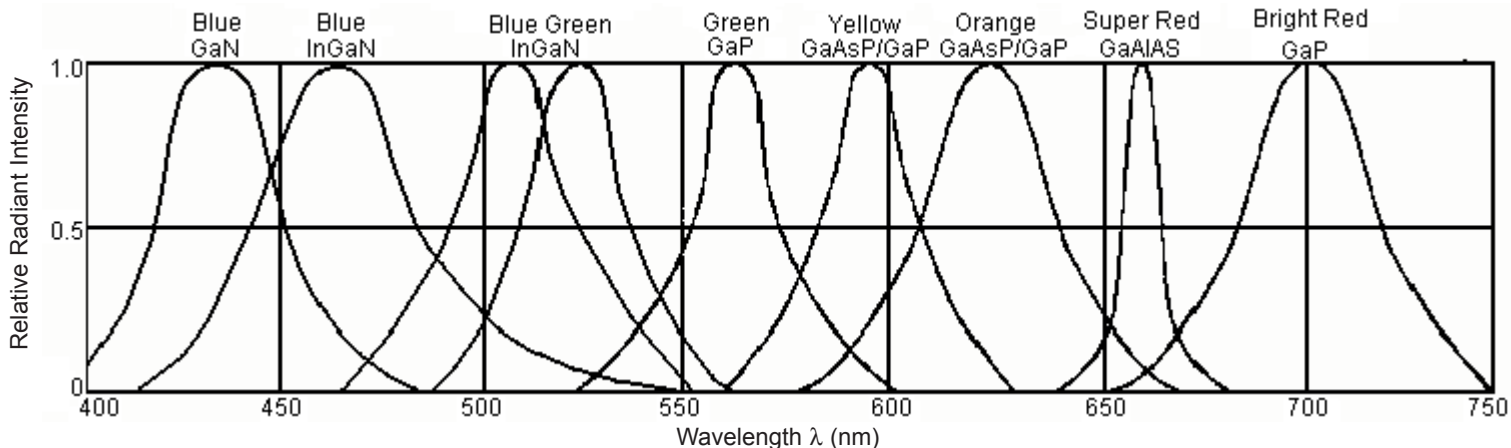
Orange (GaAsP/CaP $\lambda_P = 635\text{nm}$)



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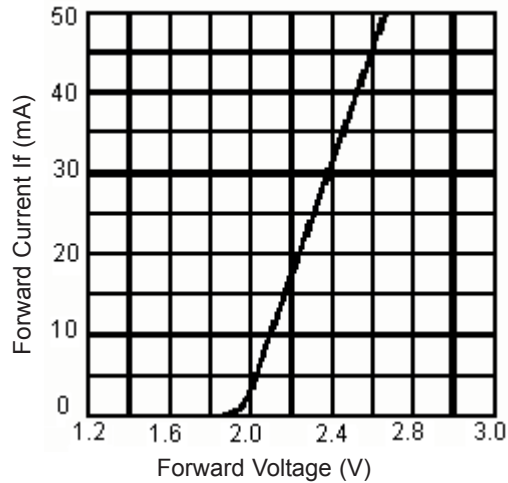
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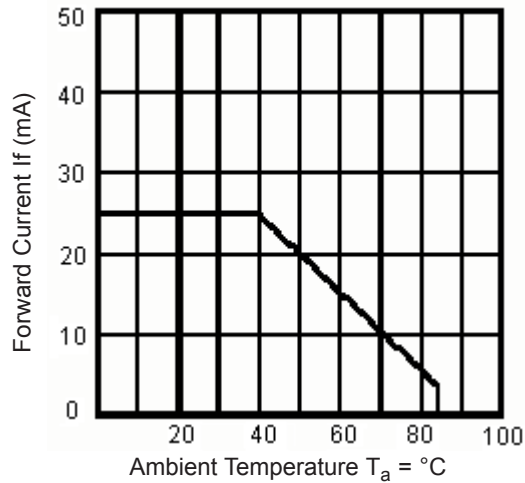
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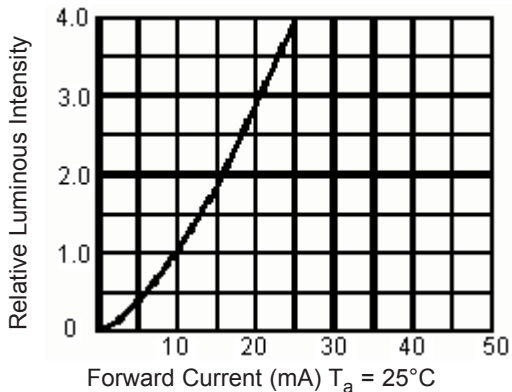
Green (GaP $\lambda_P = 568\text{nm}$)



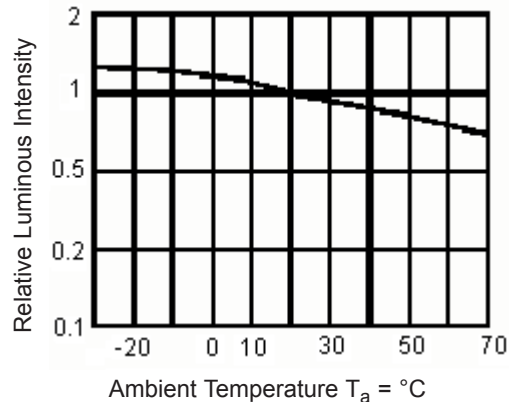
Forward Current vs. Forward Voltage



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-Orange/Green

SIZE A	DWG NO. M10001262	ELECTRONIC FILE L239AGW_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 4 OF 5

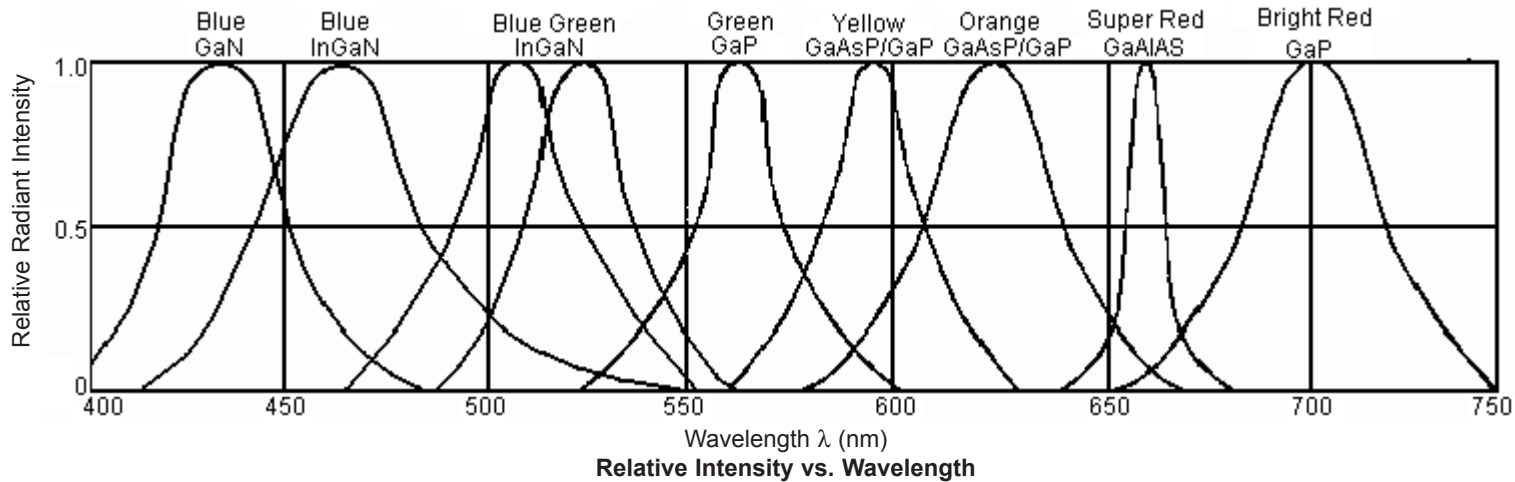


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Part Number Table

Description	Part Number
LED, 2mm x 5mm, Orange/Green	MCL239AGW

<http://www.farnell.com>

<http://www.newark.com>

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

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