



PART NO.

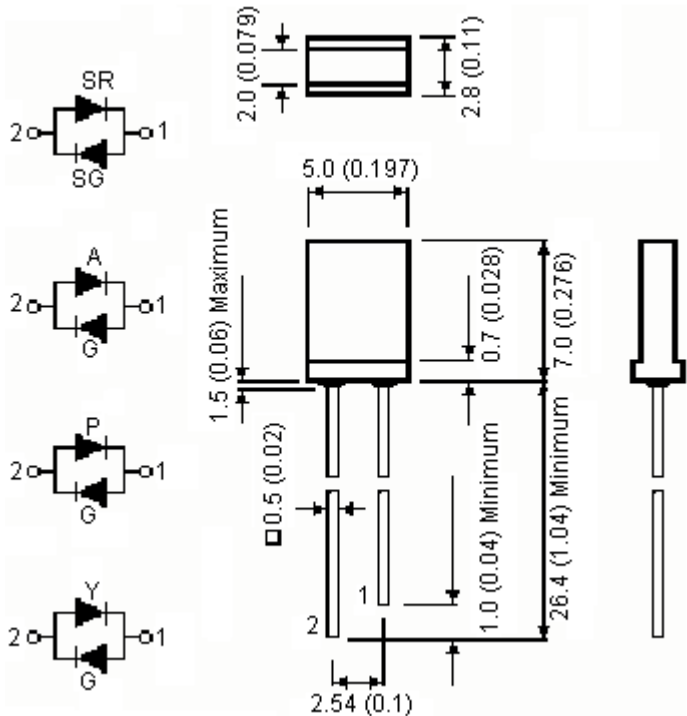
MCL236SRGW

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 : GaAlAs/GaP.
 Emitted colour : Super red/green.
 Lens colour : White diffused.
 Peak wavelength : 660/568nm.
 Viewing angle : 120 degrees.
 Luminous intensity (IV) : 1.2/3.1mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	6.0/1.4	12/3.1	18/4.9	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	120	-	degrees	
Peak Emission Wavelength	λ _p	-	660/568	-	nm	-
Dominant Wavelength	λ _D	-	643/570	-		-
Spectral Line Half-width	Δλ	-	20/30	-		-
Forward Voltage	V _F	1.5/1.7	1.8/2.1	2.5/2.6	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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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 - HI Red / Green			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001755	L236SRGW_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 5



PART NO.

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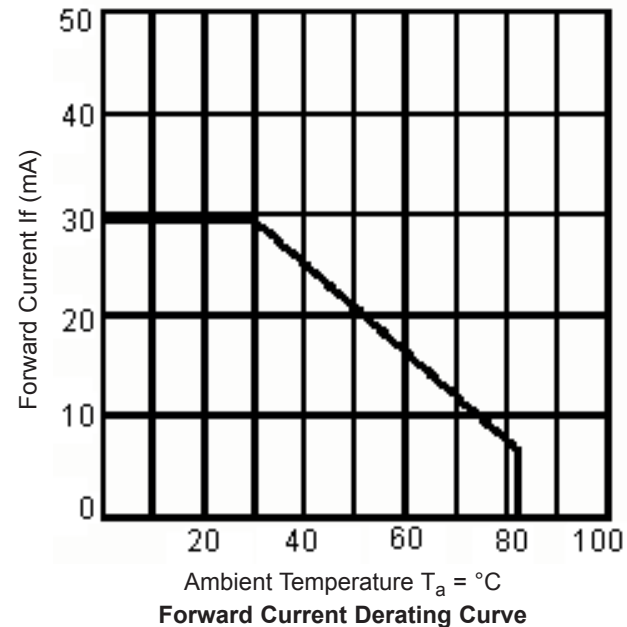
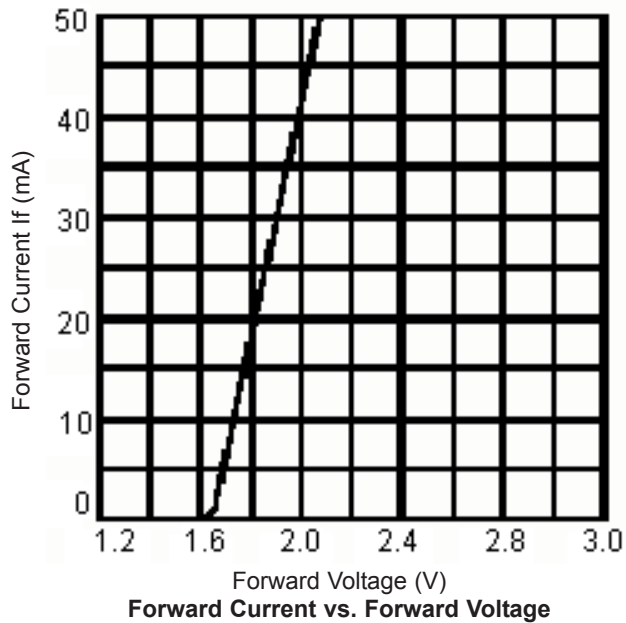
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Absolute Maximum Ratings (T_a = 25°C)

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

Super Red (GaAlAs) λP = 660nm



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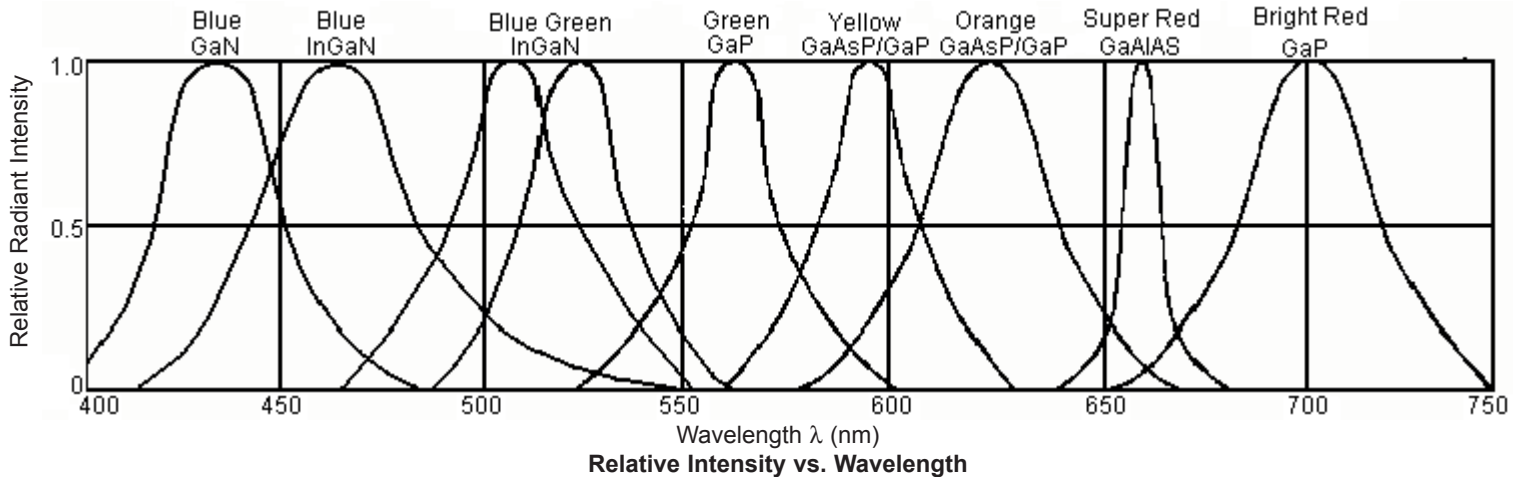
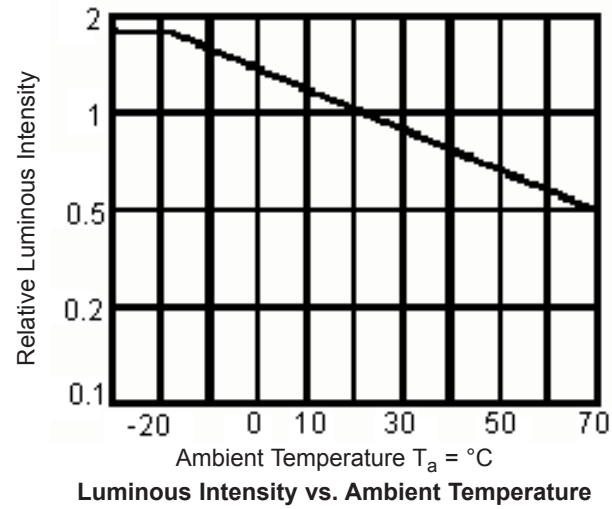
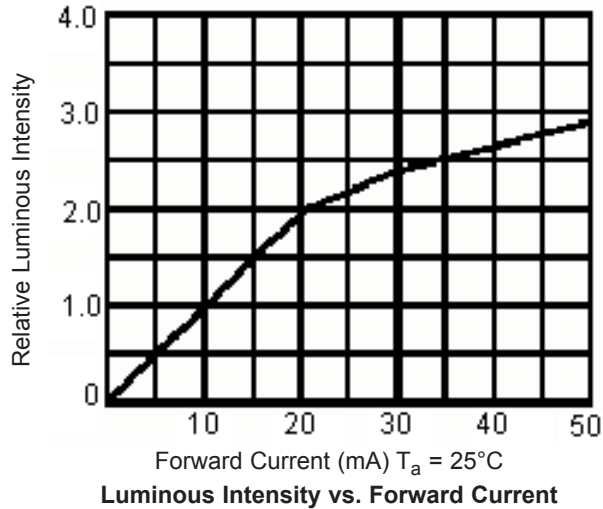
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Super Red (GaAlAs) $\lambda_P = 660\text{nm}$



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DRAWING TITLE: 2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - HI Red / Green			
SIZE A	DWG NO. M10001755	ELECTRONIC FILE L236SRGW_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 3 OF 5



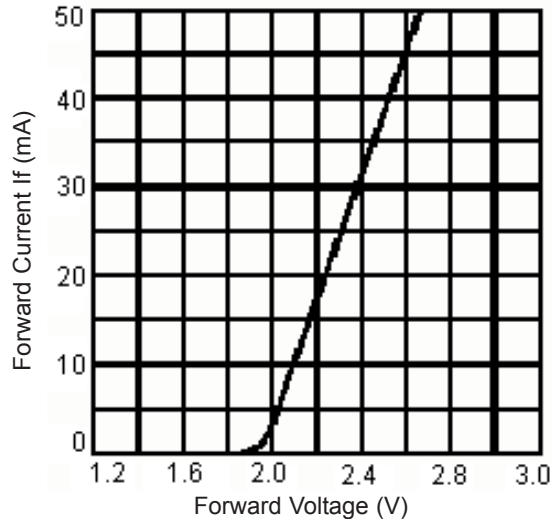
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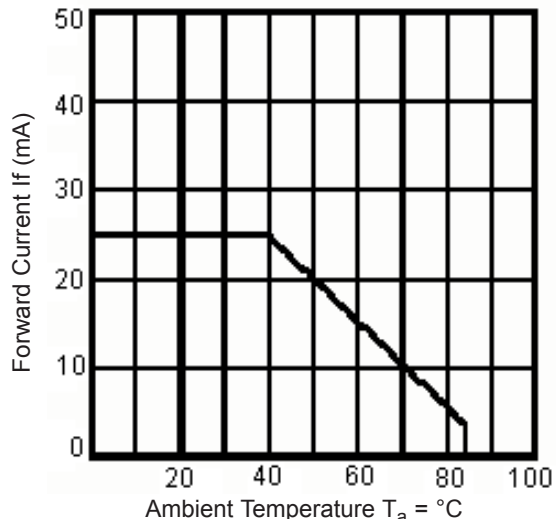
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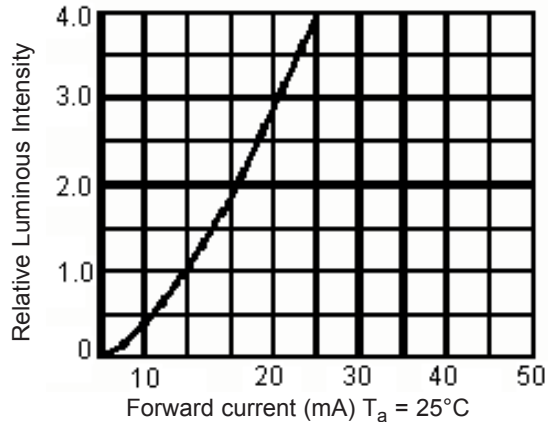
Green (GaP $\lambda_P = 568\text{nm}$)



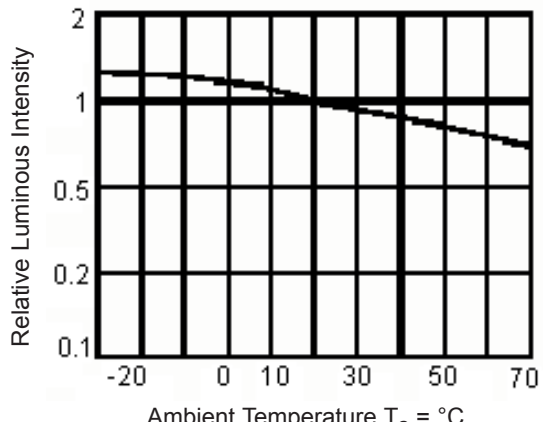
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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A	M10001755	L236SRGW_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 OF 5	

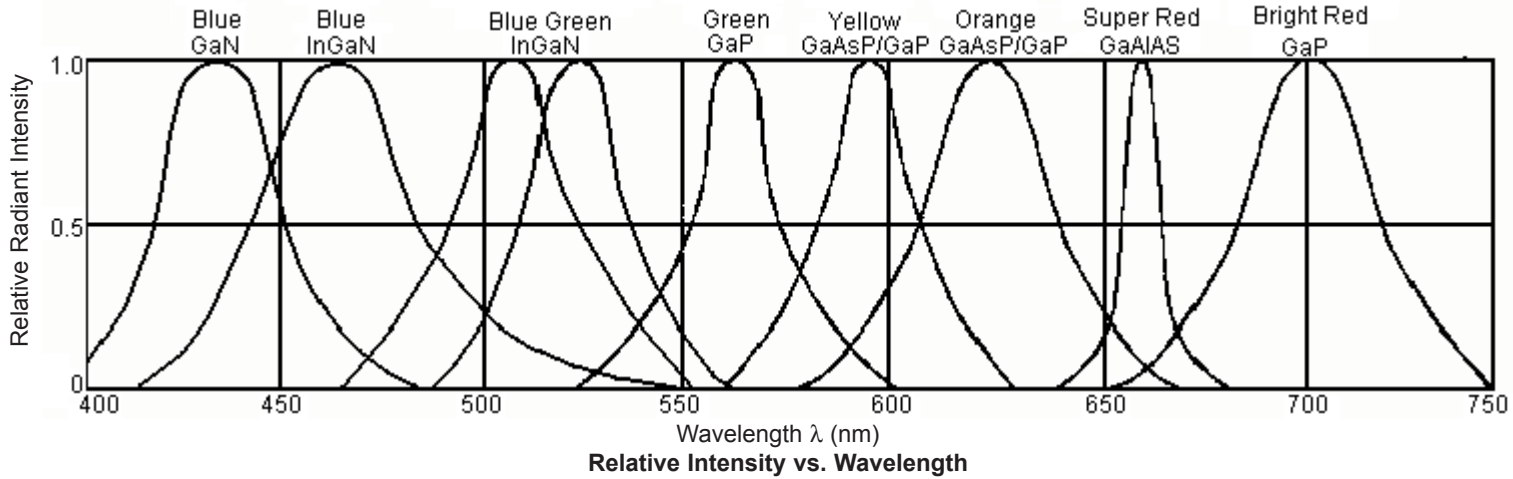


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Part Number Table

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

<http://www.farnell.com>

<http://www.newark.com>

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

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