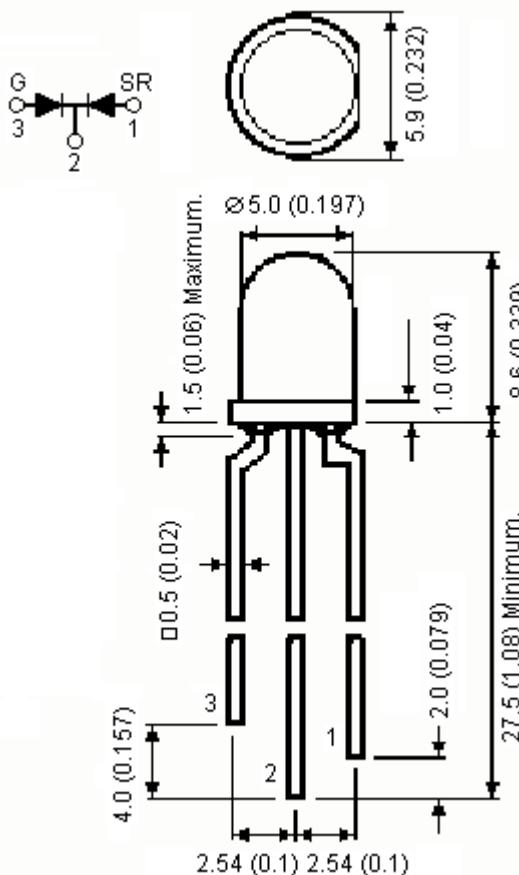


ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08



Dimensions : Millimetres (Inches)

Specifications:

Dice material : AlAGas/GaP.
 Emitted color : Super red/green.
 Lens color : White diffused.
 Peak wavelength : 660/568nm.
 Viewing angle : 45 degrees.
 Luminous intensity (IV) : 50/15mcd.

**Electrical/Optical Characteristics at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	25/7	50/15	70/24	mcd	IF = 20mA
Viewing Angle	20 1/2	-	45	-	degrees	
Peak Emission Wavelength	• λ	-	660/568	-	nm	-
Dominant Wavelength	• λ	-	643/570	-	nm	-
Spectral Line Half-Width	$\Delta\lambda$	-	20/30	-		-
Forward Voltage	VF	1.5/1.7	1.8/2.1	2.5/2.6	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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 Rekha
 DATE:
 27/05/08

CHECKED BY:
 Suresh
 DATE:
 27/05/08

APPROVED BY:
 G.Cook
 DATE:
 11/06/08

DRAWING TITLE:
5.0mm Multi-Color LED Lamp - HI Red / Green

SIZE A	DWG NO. M10001130	ELECTRONIC FILE L059SRGW_DWG	REV A
			SCALE: NTS

**multicomp**

PART NO.

MCL059SRGW

REVISED

ECN #

REV

DESCRIPTION

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DATE

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Rekha

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Suresh

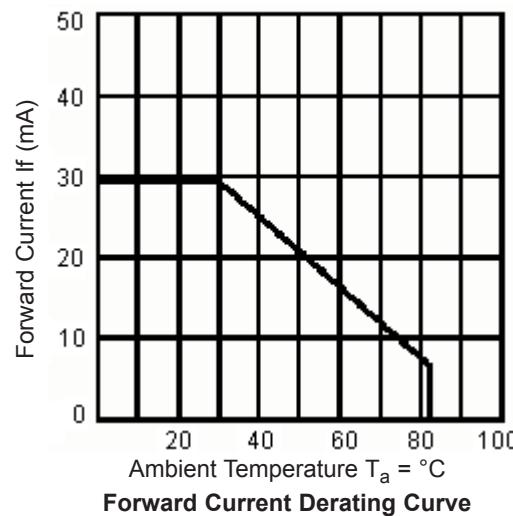
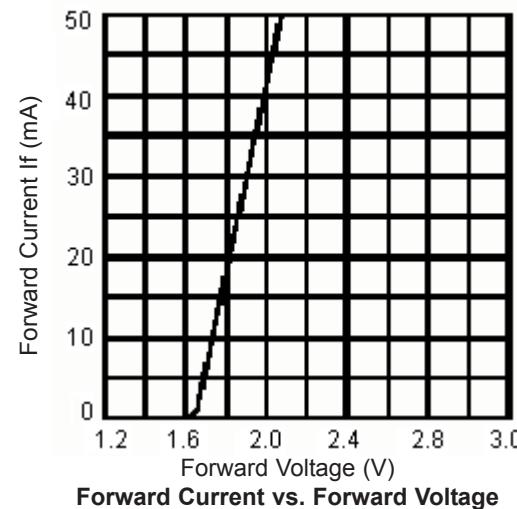
27/5/08

G. C

11/6/08

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

Reverse Voltage	5 Volt
Reverse Current	$10\mu\text{A}$ ($V_R = 5\text{V}$)
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) $\lambda_P = 660\text{nm}$ 

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DATE:

27/05/08

APPROVED BY:

G.Cook

DATE:

11/06/08

DRAWING TITLE:

5.0mm Multi-Color LED Lamp - HI Red / Green

SIZE
ADWG NO.
M10001130ELECTRONIC FILE
L059SRGW_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 2 OF 5

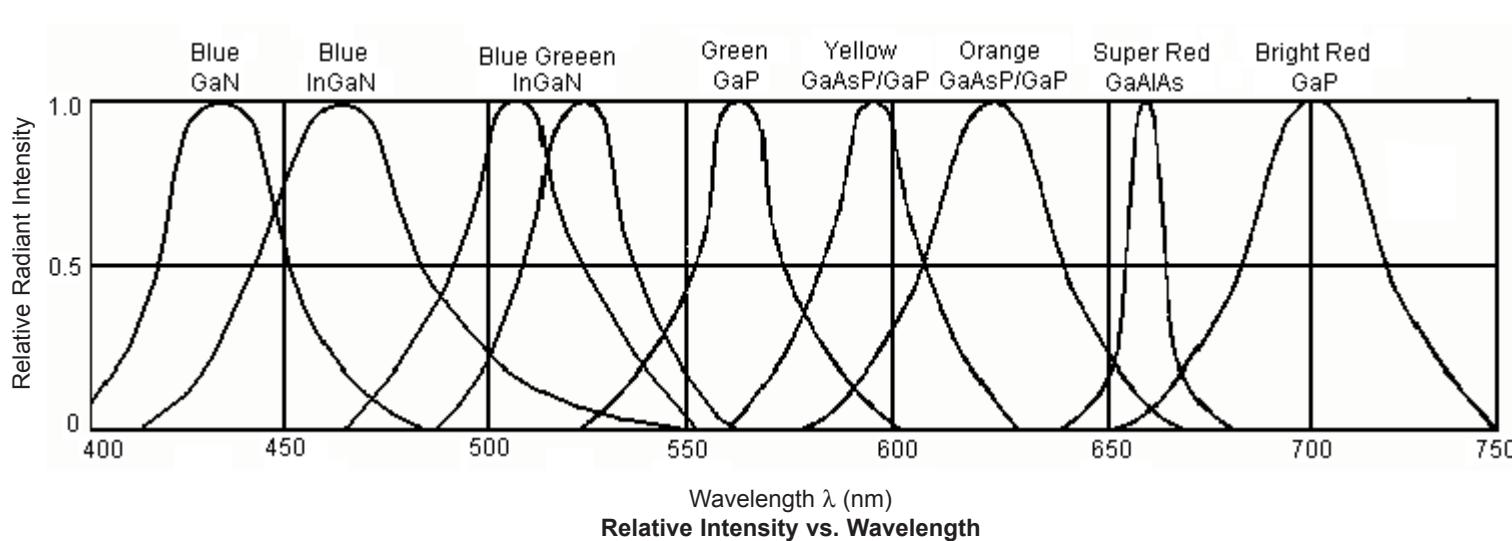
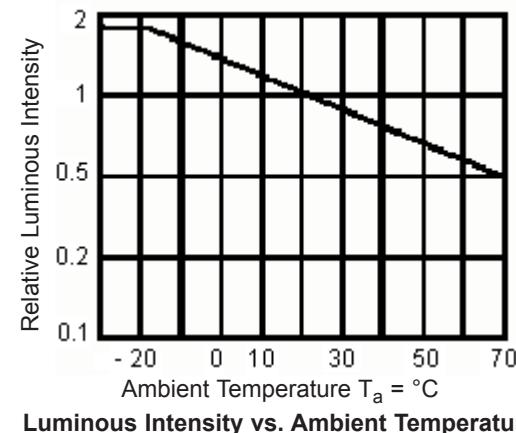
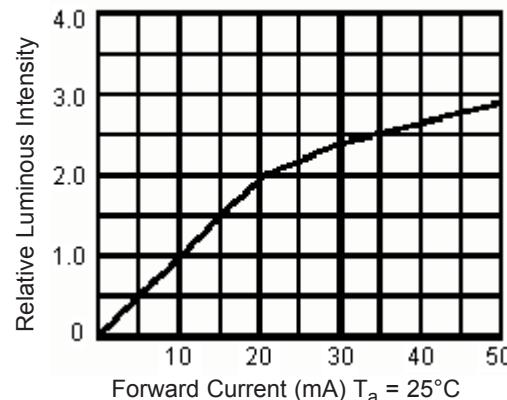
**multicomp**

PART NO.

MCL059SRGW

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08

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

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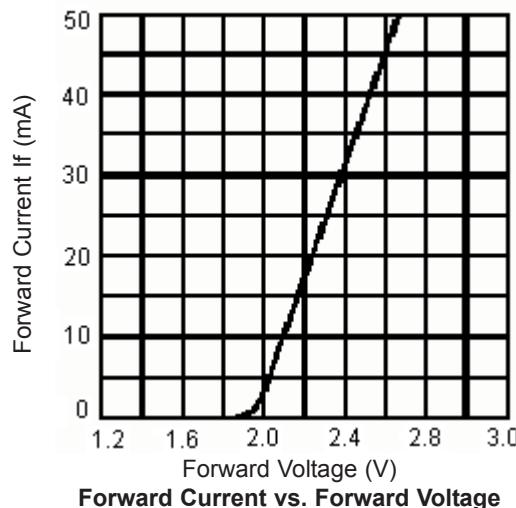
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Rekha
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Suresh
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27/05/08

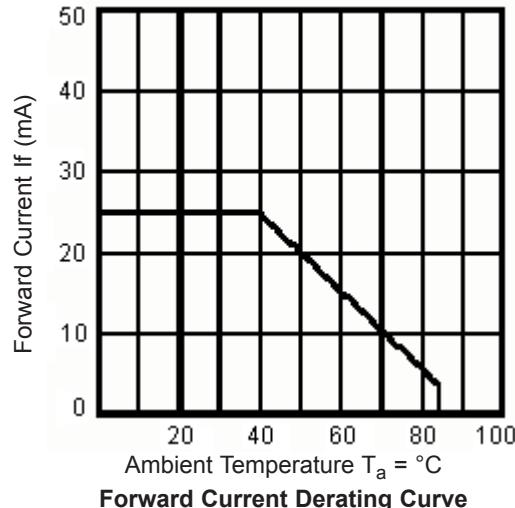
APPROVED BY:
G.Cook
DATE:
11/06/08

DRAWING TITLE:
5.0mm Multi-Color LED Lamp - HI Red / Green

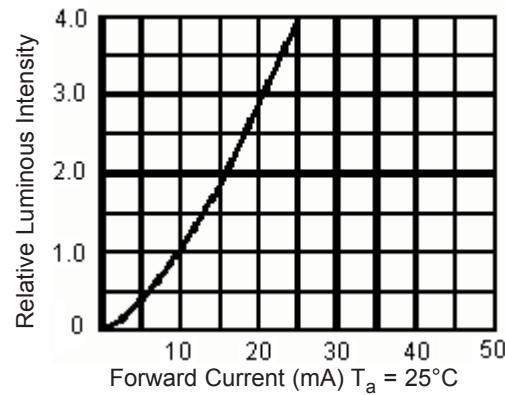
SIZE A	DWG NO. M10001130	ELECTRONIC FILE	REV A
		L059SRGW_DWG	
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 3 OF 5

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

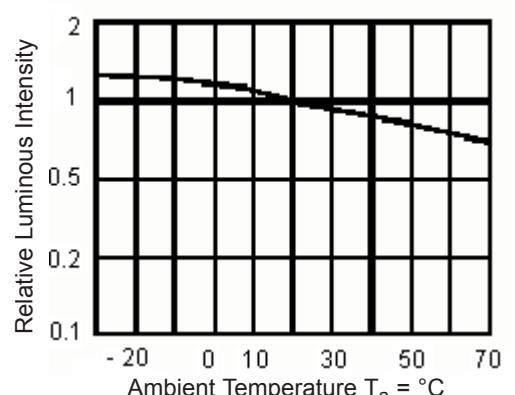
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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DATE:

27/05/08

APPROVED BY:

G.Cook

DATE:

11/06/08

DRAWING TITLE:

5.0mm Multi-Color LED Lamp - HI Red / Green

SIZE

A

DWG NO.

M10001130

ELECTRONIC FILE
L059SRGW_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 5

**multicomp**

PART NO.

MCL059SRGW

REVISIONS

ECN #

REV

DESCRIPTION

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Rekha

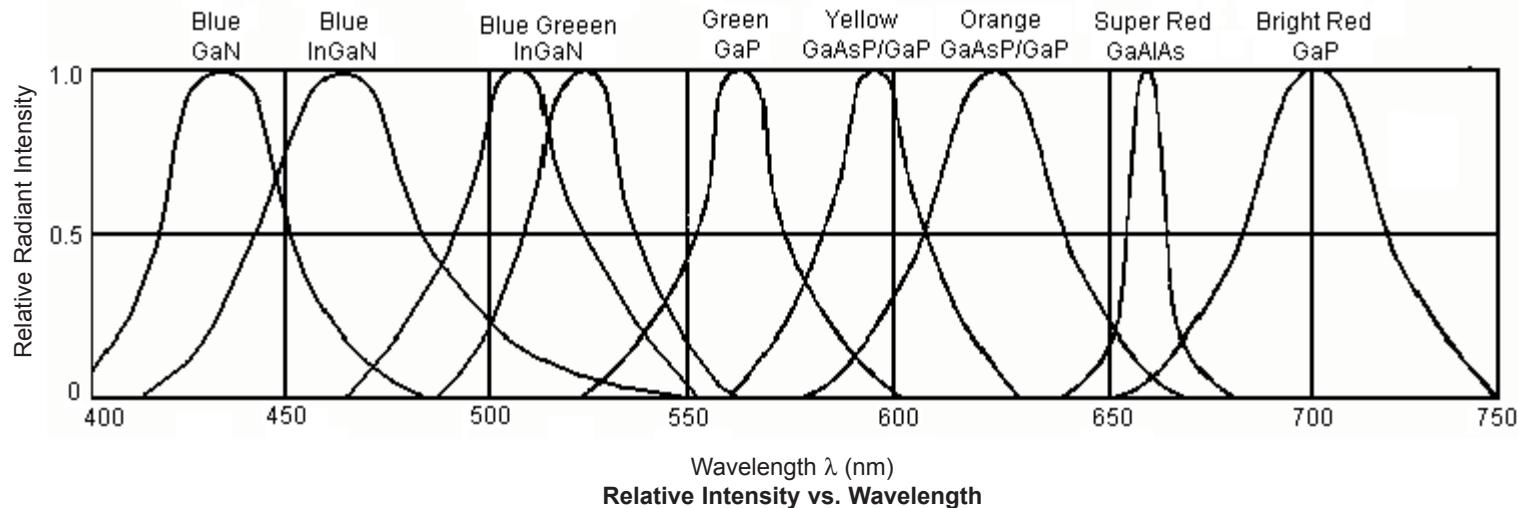
27/5/08

Suresh

27/5/08

G. C

11/6/08



Part Number Table

Description	Part Number
LED, 5mm, HI-Red/Green	MCL059SRGW

<http://www.farnell.com><http://www.newark.com><http://www.cpc.co.uk>

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CHECKED BY:

Suresh

DATE:

27/05/08

APPROVED BY:

G.Cook

DATE:

11/06/08

DRAWING TITLE:

5.0mm Multi-Color LED Lamp - HI Red / Green

SIZE
A

DWG NO.

M10001130ELECTRONIC FILE
L059SRGW_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 5 OF 5