



PART NO.

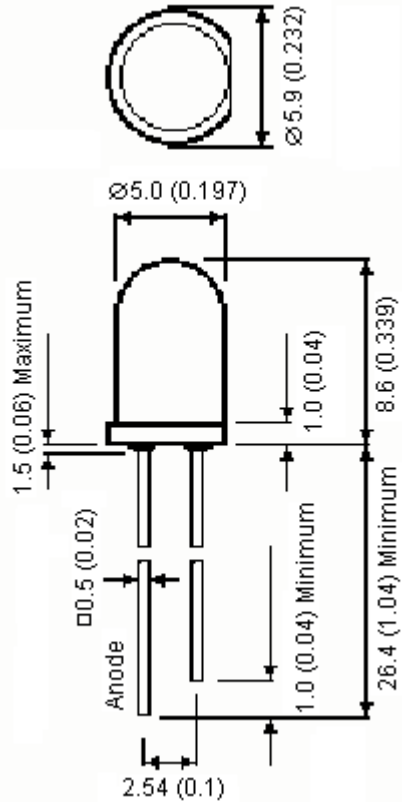
MCL053SGC

REVISIONS

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

Specifications:

Dice material : AlInGaP.
Emitted color : Super green.
Lens color : Water clear.
Peak wavelength : 570nm.
Viewing angle : 16 degrees.
Luminous intensity (IV) : 1850mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	900	1850	2700	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	16	-	degrees	
Peak Emission Wavelength	• λ _p	-	570	-	nm	-
Dominant Wavelength	• λ _d	-	572	-		-
Spectral Line Half-Width	Δλ	-	15	-		-
Forward Voltage	VF	1.7	2.1	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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TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:

Geetha

DATE:

27/05/08

CHECKED BY:

Suresh

DATE:

27/05/08

APPROVED BY:

G.Cook

DATE:

11/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Super Green

SIZE
A

DWG NO.

M10001100

ELECTRONIC FILE
L053SGC_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 1 OF 4



PART NO.

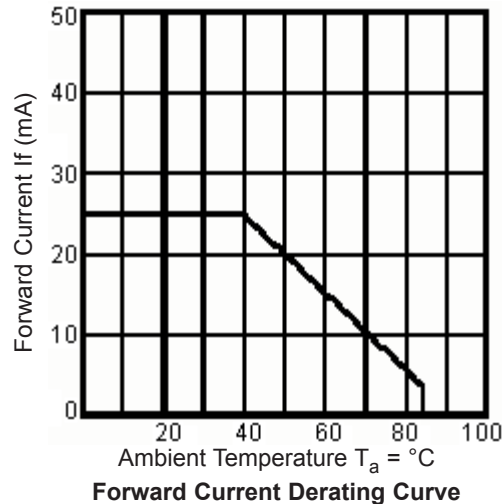
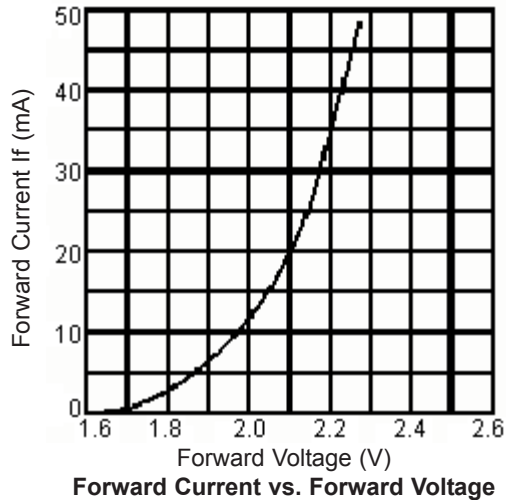
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Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

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 Green (AlInGaP $\lambda_P = 570\text{nm}$)

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SHEET: 2 OF 4

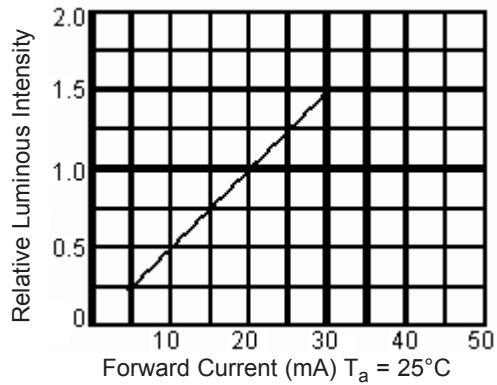


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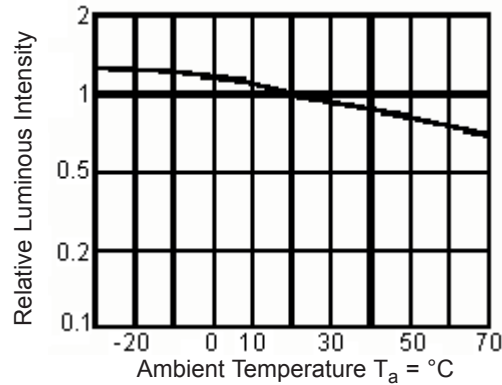
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REVISIONS

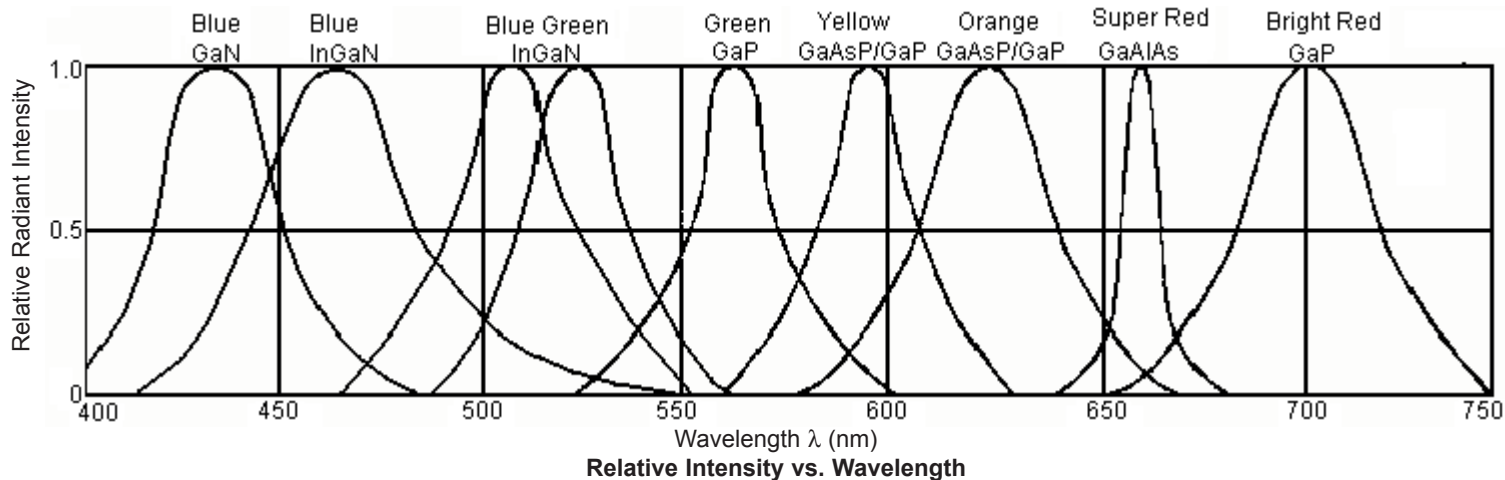
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Super Green (AlInGaP $\lambda_P = 570\text{nm}$)

Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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Part Number Table

Description	Part Number
LED, 5mm, 16°, Super-Green	MCL053SGC

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

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