



PART NO.

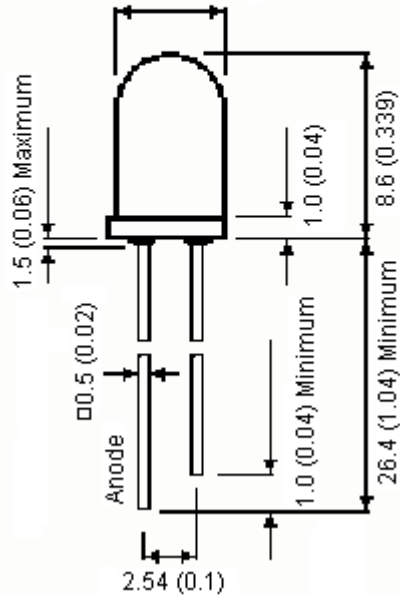
MCL053SGC

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



Ø5.0 (0.197)



Dimensions : Millimetres (Inches)

Specifications:

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



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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DRAWN BY:	DATE:
Geetha	27/05/08
CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Super Green

SIZE A	DWG NO. M10001100	ELECTRONIC FILE L053SGC_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 4



PART NO.

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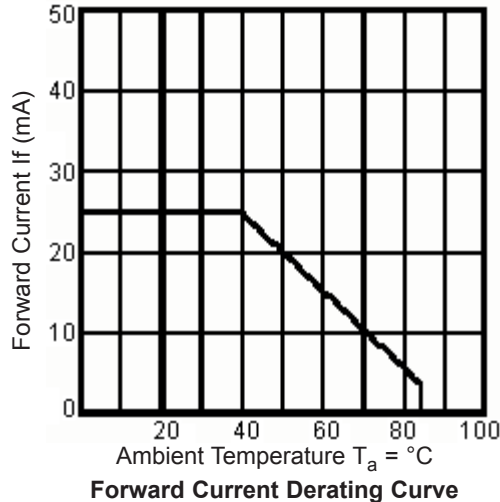
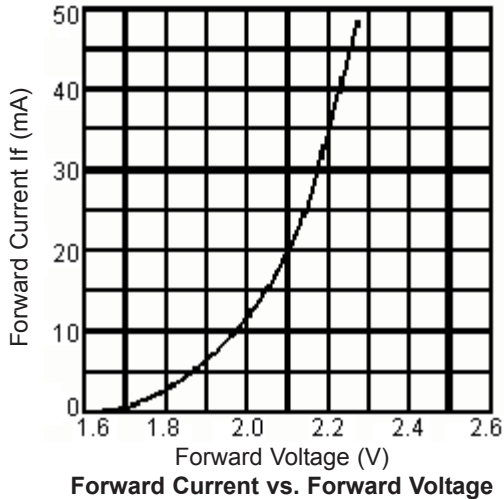
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Absolute Maximum Ratings (T_a = 25°C)

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 Green (AlInGaP λ_P = 570nm)



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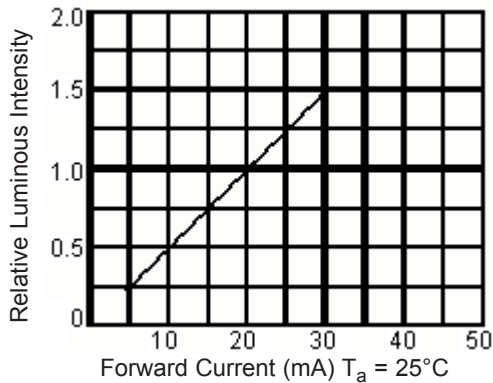
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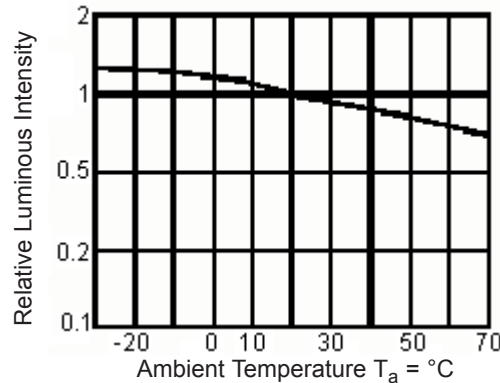
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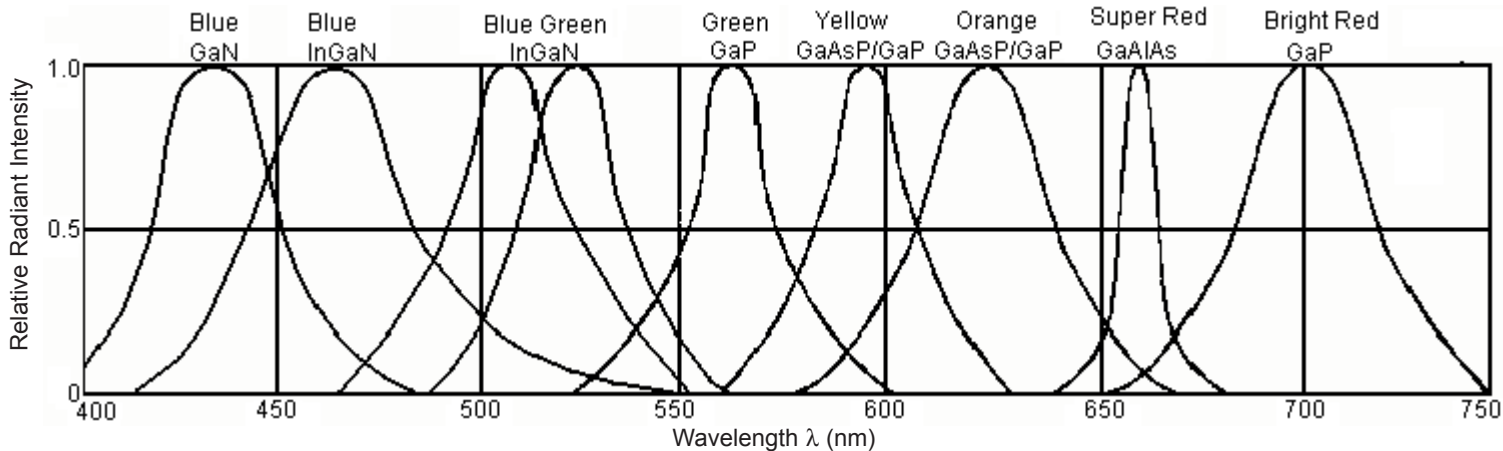
Super Green (AlInGaP $\lambda_P = 570\text{nm}$)



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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