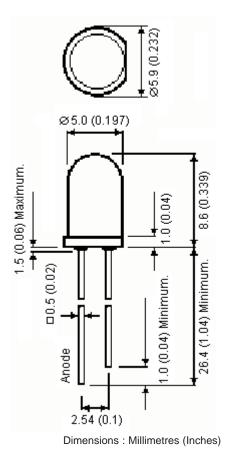


MCL053UGC

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



Specifications:

Dice material : InGaN.
Emitted color : Ultra green.
Lens color : Water clear.
Peak wavelength : 525nm.
Viewing angle : 16 degrees.
Luminous intensity (IV) : 9500mcd.



Electrical/Optical Characterisitics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1450	4500	9500	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	16	-	degrees	11 - 2011A
Peak Emission Wavelength	• p	-	525	-		-
Dominant Wavelength	• 10	-	527	-	nm	-
Spectral Line Half-Width	Δλ	-	36	-		-
Forward Voltage	VF	2.7	3.4	4.0	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:

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

5.0mm Round LED Lamp - Ultra Green

SIZE DWG NO. A M10001137 ELECTRONIC FILE L053UGC_DWG

SCALE: NTS U.O.M.: mm (Inches)

SHEET: 1 OF 4

REV

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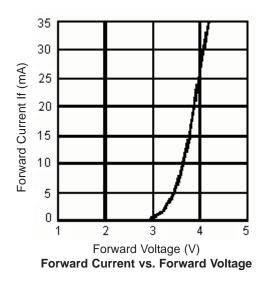
MCL053UGC

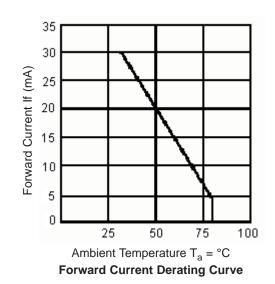
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08

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

Reverse Voltage	5 Volt
Reverse Current	$10\mu A (V_R = 5V)$
Electrostatics Discharge (ESD)	200 Volt
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

Ultra Green (InGaN $\lambda P = 525$ nm)





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Rekha	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 - Ultra Green									
:	SIZE DWG NO.			M10001137	ELECTRONIC FILE L053UGC_DWG		REV A			
:	SCALE: NTS		U.O.M.: mm (Inches)		SHEET: 2 OI	- 4				

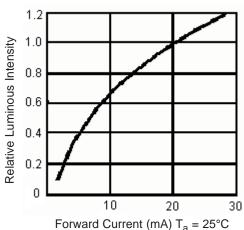


PART NO.

MCL053UGC

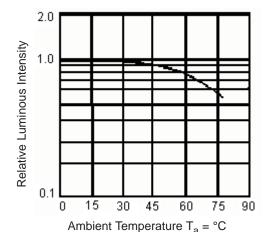
	REVISIONS							
ECN#	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08

Ultra Green (InGaN $\lambda P = 525$ nm)

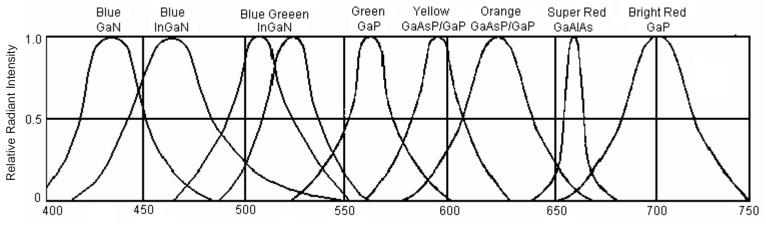


Forward Current (mA) I_a = 25°C

Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



 $Wavelength \ \lambda \ (nm)$ Relative Intensity vs. Wavelength

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

5.0mm Round LED Lamp - Ultra Green

SIZE DWG NO. A M10001137 ELECTRONIC FILE L053UGC_DWG

SCALE: NTS U.O.M.: mm (Inches)

SHEET: 3 OF 4

REV

Α



PART NO.

MCL053UGC

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

Part Number Table

Description	Part Number	
LED, 5mm, 16°, Ultra-Green	MCL053UGC	

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

REV

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TOLERANCES:

	DRAWN BY:	DATE:	
	Rekha	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 - Ultra Green						
SIZE A	DWG NO.	M10001137	ELECTRONIC FILE L053UGC_DWG					

SCALE: NTS U.O.M.: mm (Inches) SHEET: 4 OF 4