

PART NO.

MCL053BGC

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	SID	29/6/12	AMU	29/6/12		13/7/12

5.9 Ø5 (0.197) 1.5 (0.06) Maximum 8.6 (0.339) 26.4 (1.04) Minimum (0.04) Minimum 0.5 (0.02) Anode 2.54 (0.1)

Dimensions: Millimetres (Inches)

Specifications:

Dice Material : InGaN : Blue green **Emitted Colour Epoxy Colour** : Water clear Peak Wavelength : 505 nm Viewing Angle : 16 degrees Luminous Intensity (IV) : 16,000 mcd

Electrical / Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	8,000	14,500	21,000	mcd	IF = 20 mA
Viewing Angle	20 1/2	-	16	-	degrees	11 - 20 IIIA
Peak Emission Wavelength	λP	-	505	-		-
Dominant Wavelength	λD	-	510	-	nm	-
Spectral Line Half-Width	Δλ	-	40	-		-
Forward Voltage	VF	2.7	3.4	4	V	IF = 20 mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current Duty 1 / 10 at 1 KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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

Reverse Voltage	5 V
Reverse Current	10 μA (V _R = 5 V)
Electrostatic Discharge (ESD)	200 V
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature	260°C for 5 Seconds



L053BGC_DWG

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SID	29/06/12
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AMU	29/06/12
APPROVED BY:	DATE:
	13/07/12

DRAWI	ING IIILE:			
	5 mm	n Round LED Lamp ·	- Ultra Blue / Gre	en
SIZE	DWG NO.		ELECTRONIC FILE	REV
I 🔥 I		M10001260	LOESPOO DWO	۸ ا

U.O.M.: mm SHEET: 1 OF 2 SCALE: NTS

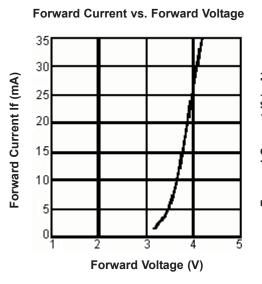


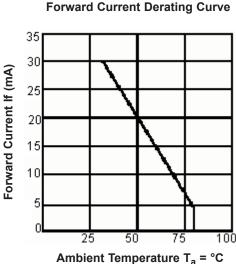
PART NO.

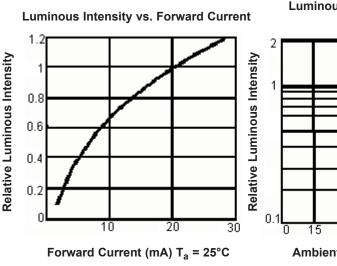
MCL053BGC

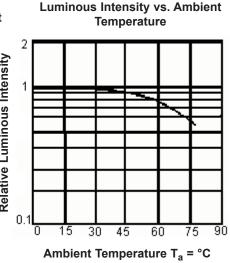
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Blue Green (InGaN) $\lambda P = 505$ nm)

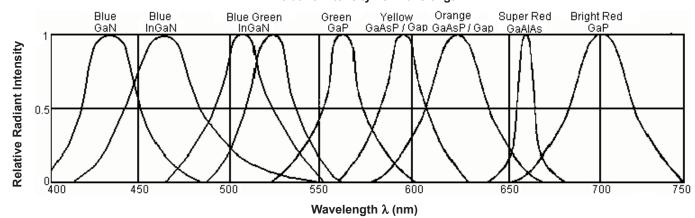








Relative Intensity vs. Wavelength



Part Number Table

Description	Part Number
Led, 5 mm, 16°, Ultra - Blue / Green	MCL053BGC

www.element14.com www.farnell.com www.newark.com

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	13/07/12

DRAWING TITLE:

5 mm Round LED Lamp - Ultra Blue / Green

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SCAL	E: NTS	U.O.M.: mm		SHEET:	2	OF	2	