



PART NO.

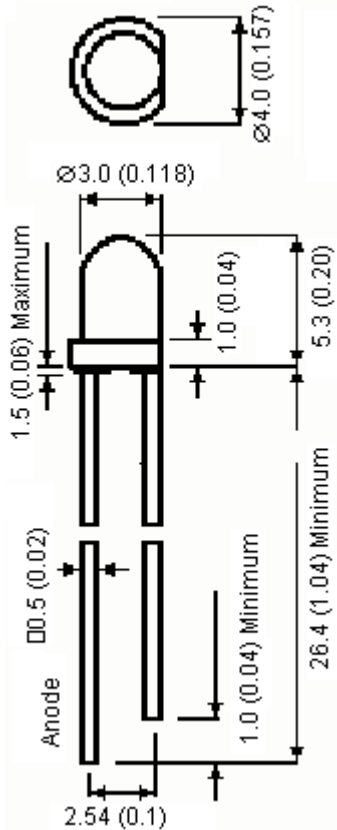
MCL034BGC

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08

Specifications:

Dice material : InGaN.
 Emitted color : Blue green.
 Lens color : Water clear
 Peak wavelength : 505nm.
 Viewing angle : 36 degrees.
 Luminous intensity (IV) : 3650mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1800	3650	5200	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	36	-	degrees	
Peak Emission Wavelength	• λ _p	-	505	-	nm	-
Dominant Wavelength	• λ _d	-	510	-		-
Spectral Line Half-Width	Δλ	-	40	-		-
Forward Voltage	V _F	2.7	3.4	4.0	V	IF = 20mA
Power Dissipation	P _d	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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TOLERANCES:
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DRAWN BY:	DATE:
Veena	25/06/08
CHECKED BY:	DATE:
Suresh	25/06/08
APPROVED BY:	DATE:
G.Cook	10/07/08

DRAWING TITLE:

3.0mm Round LED Lamp - Ultra Blue/Green

SIZE A	DWG NO. M10001251	ELECTRONIC FILE L034BGC_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 4



PART NO.

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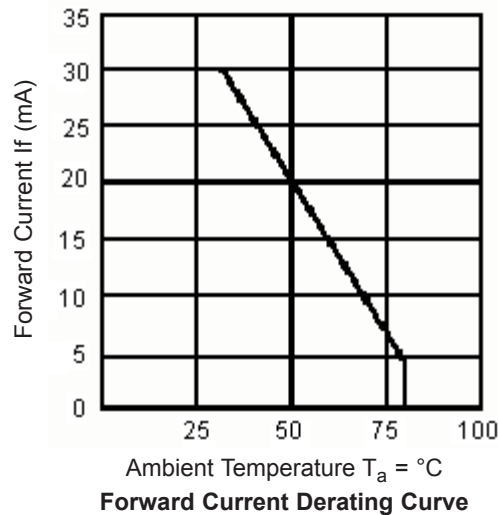
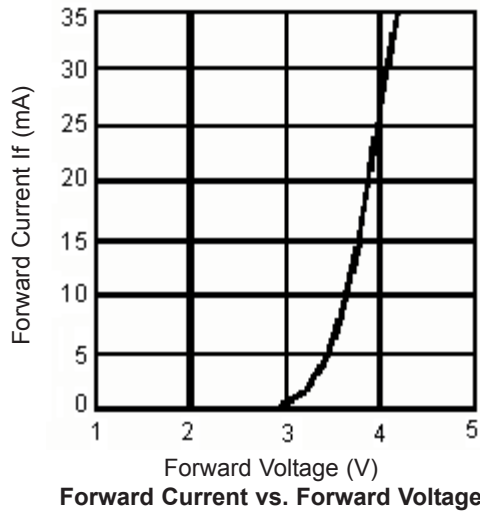
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Absolute Maximum Ratings (T_a = 25°C)

Reverse Voltage	5 Volt
Reverse Current	10µA (V _R = 5V)
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

Blue Green (InGaN λP = 505nm)



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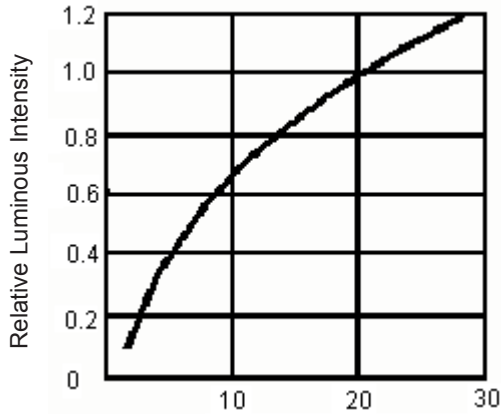
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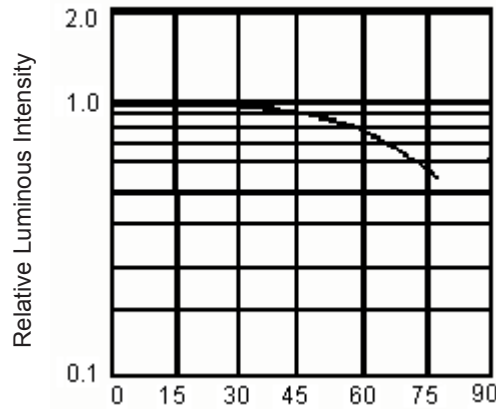
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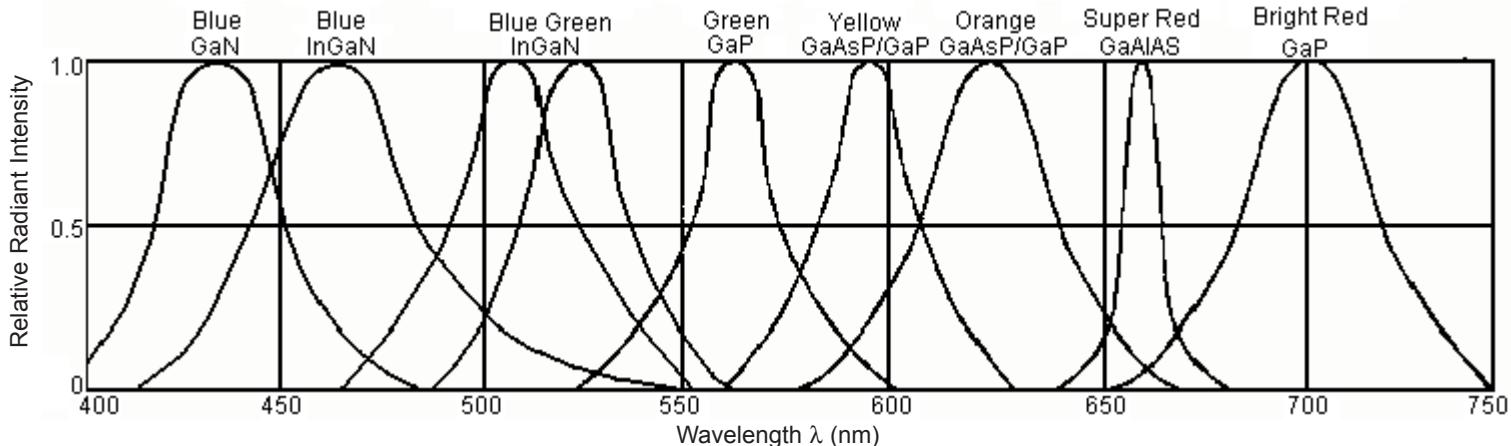
Blue Green (InGaN $\lambda_P = 505\text{nm}$)



Forward Current (mA) $T_a = 25^\circ\text{C}$
Luminous Intensity vs. Forward Current



Ambient Temperature $T_a = ^\circ\text{C}$
Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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A	M10001251	L034BGC_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 3 OF 4	



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Part Number Table

Description	Part Number
LED, 3mm, 32°, Ultra-Blue/Green	MCL034BGC

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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