

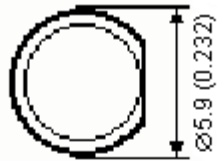


PART NO.

MCL053BD

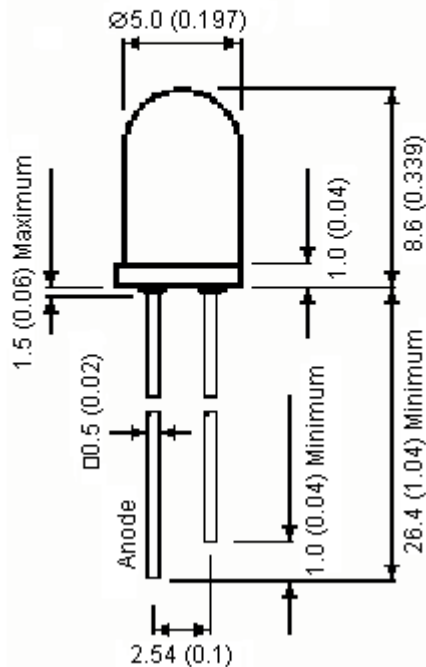
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08



Specifications:

Dice material : GaAsP on GaP.
 Emitted color : Amber.
 Lens color : Amber diffused.
 Peak wavelength : 610nm.
 Viewing angle : 45 degrees.
 Luminous intensity (IV) : 16mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	8	16	25	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	45	-	degrees	
Peak Emission Wavelength	• λ _p	-	610	-	nm	-
Dominant Wavelength	• λ _d	-	605	-		-
Spectral Line Half-Width	Δλ	-	40	-		-
Forward Voltage	V _F	1.7	2.1	2.6	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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Veena	28/05/08
CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Amber

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001176	L053BD_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 4	



PART NO.

MCL053BD

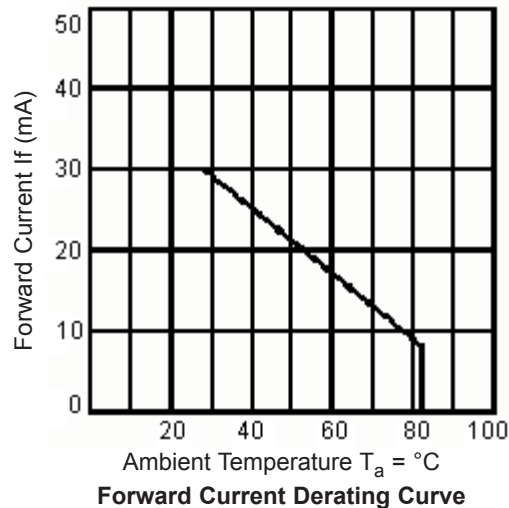
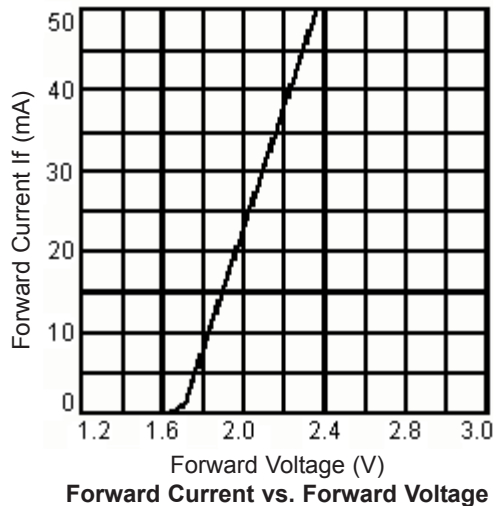
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Absolute Maximum Ratings (T_a = 25°C)

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

Amber (GaAsP/CaP λ_P = 610nm)



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DRAWING TITLE:

5.0mm Round LED Lamp - Amber

SIZE A	DWG NO. M10001176	ELECTRONIC FILE L053BD_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 4



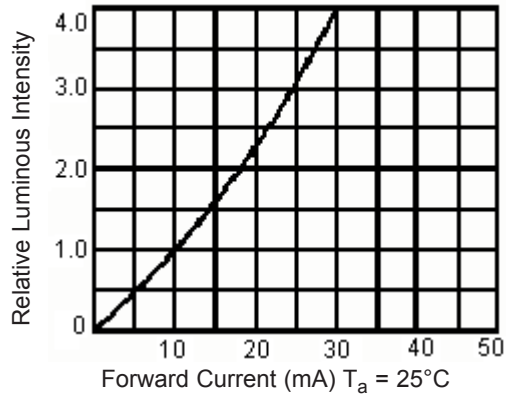
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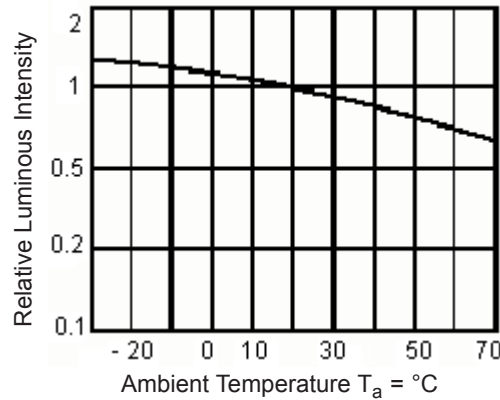
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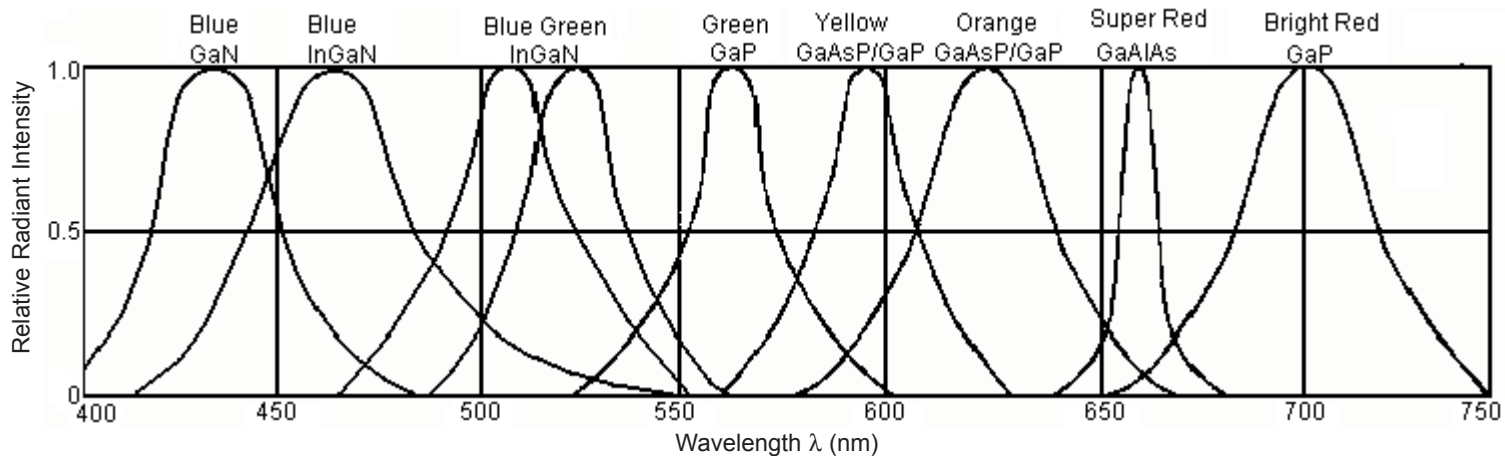
Amber (GaAsP/CaP $\lambda_P = 610\text{nm}$)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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5.0mm Round LED Lamp - Amber

SIZE
A

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M10001176

ELECTRONIC FILE
L053BD_DWG

REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 3 OF 4



PART NO.

MCL053BD

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Part Number Table

Description	Part Number
LED, 5mm, 36°, Amber	MCL053BD

<http://www.farnell.com>

<http://www.newark.com>

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

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DWG NO.

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REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 4