

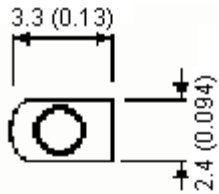


PART NO.

MCL914BD

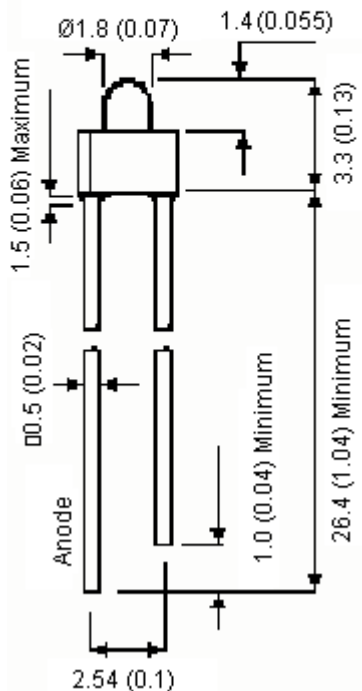
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	25/9/08	Suresh	25/9/08	Farnell	9/10/08



Specifications:

Dice material : GaAsP on GaP.
 Emitted colour : Amber.
 Lens colour : Amber diffused.
 Peak wavelength : 610nm.
 Viewing angle : 70 degrees.
 Luminous intensity (IV) : 6.0mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	2.8	6.0	8.8	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	70	-	degrees	
Peak Emission Wavelength	λ _p	-	610	-	nm	-
Dominant Wavelength	λ _D	-	606	-		-
Spectral Line Half-width	Δλ	-	40	-		-
Forward Voltage	V _F	1.7	2.1	2.6	V	IF = 20mA
Power Dissipation	P _d	-	-	85	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-		-

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Veena	25/09/08
CHECKED BY:	DATE:
Suresh	25/09/08
APPROVED BY:	DATE:
Farnell	09/10/08

DRAWING TITLE:

1.8mm Tower LED Lamp - Amber

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001754	L914BD_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 4	



PART NO.

MCL914BD

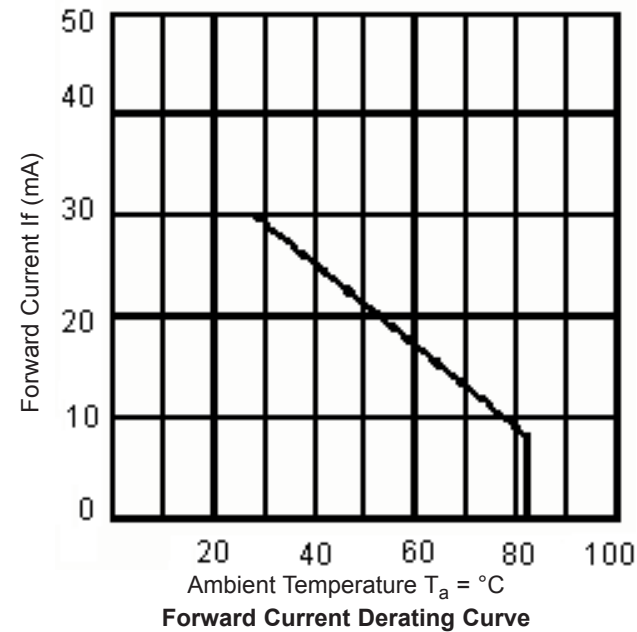
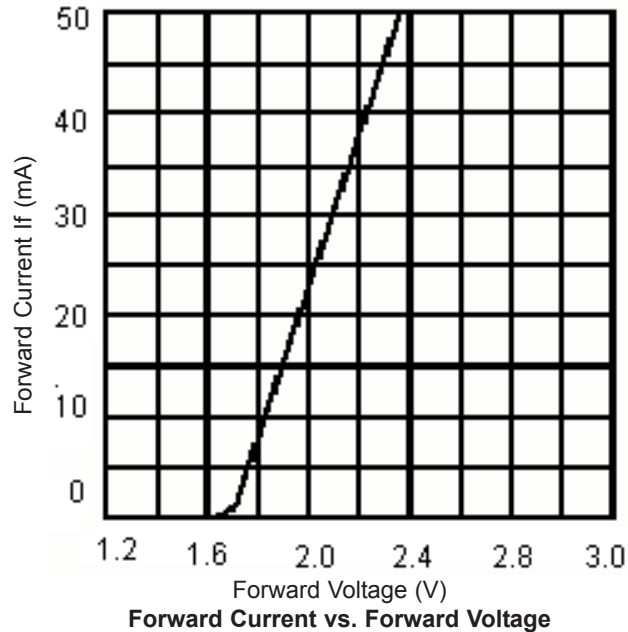
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Absolute Maximum Ratings (T_a = 25°C)

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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SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 4



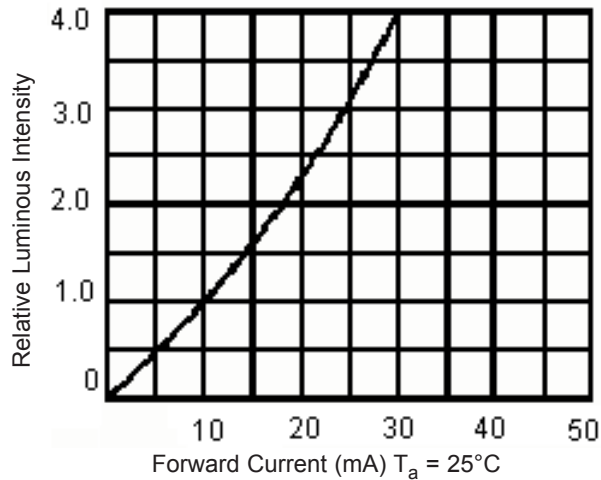
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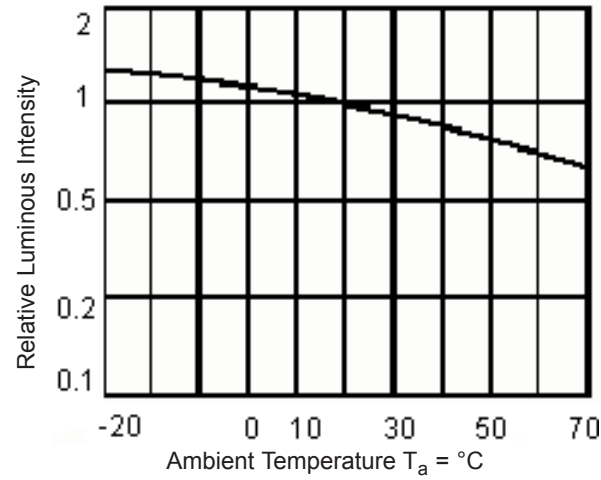
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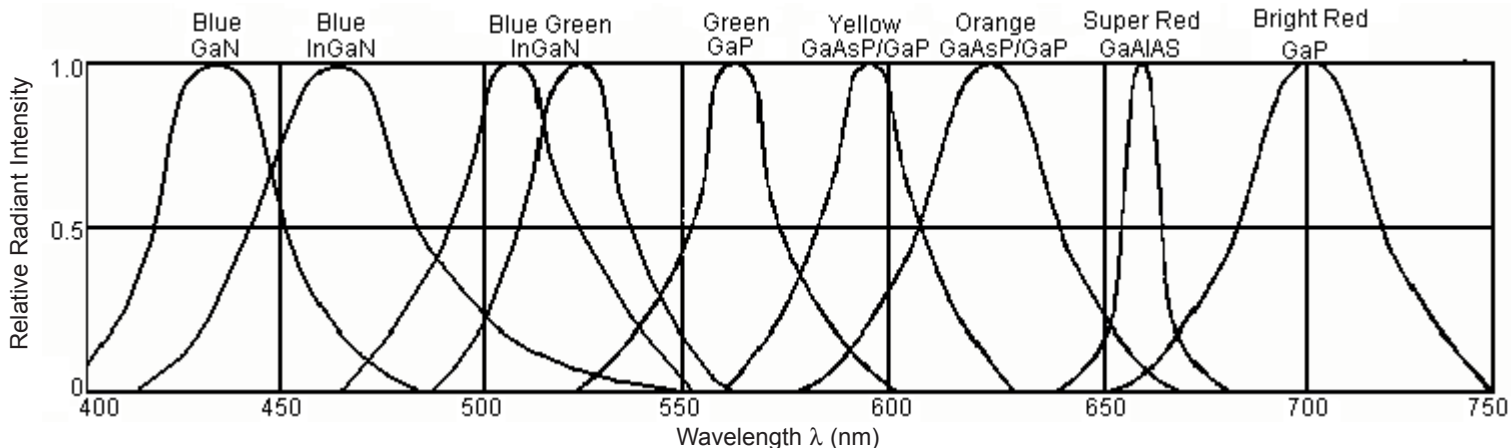
Amber (GaAsP/CaP $\lambda_P = 610\text{nm}$)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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1.8mm Tower LED Lamp - Amber

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PART NO.

MCL914BD

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Part Number Table

Description	Part Number
LED, 1.8mm, 76°, Amber	MCL914BD

<http://www.farnell.com>

<http://www.newark.com>

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

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DRAWING TITLE:

1.8mm Tower LED Lamp - Amber

SIZE
A

DWG NO.

M10001754

ELECTRONIC FILE
L914BD_DWG

REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 4