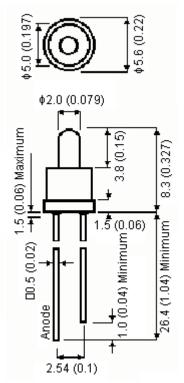


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MCL223AD

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



Dimensions: Millimetres (Inches)

Specifications:

Dice material : GaAsP on GaP. Emitted colour : Orange red. Lens colour : Orange diffused.

Peak wavelength : 635nm.
Viewing angle : 60 degrees.
Luminous intensity (IV) : 8.0mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	4.0	8.0	12	mcd	IF = 20mA
Viewing Angle	20 1/2	-	60	-	degrees	IF - ZUITA
Peak Emission Wavelength	λр	-	635	-		-
Dominant Wavelength	λD	-	625	-	nm	-
Spectral Line Half-width	Δλ	-	45	-		-
Forward Voltage	VF	1.6	2.0	2.6	V	IF = 20mA
Power Dissipation	Pd	-	-	85	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-	IIIA	-

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Suresh	25/09/08
APPROVED BY:	DATE:
Farnell	9/10/08

	DRAWI	NG TITLE:						
2.0mm Tower LE					ıp - Ora	nge)	
	SIZE A	DWG NO.	M10001749	ELECTRONIC FILE L223AD_DWG				REV A
	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	1	OF	4



PART NO.

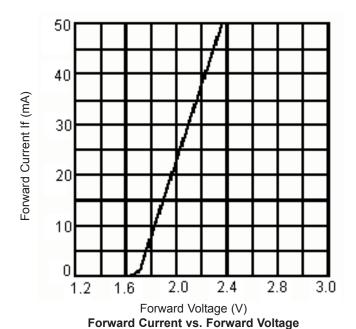
MCL223AD

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-	Α	RELEASED	Veena	25/9/08	Suresh	25/9/08	Farnell	9/10/08

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

Orange (GaAsP/CaP λ P = 635nm)



Forward Current If (mA)

20

20

20

40

60

80

100

Ambient Temperature T_a = °C

Forward Current Derating Curve

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Suresh	25/09/08
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	DRAWI	NG TITLE:							
			2.0mm Tower LED Lamp - Orange						
	SIZE A	DWG NO.	M10001749	ELECTRONIC FILE L223AD_DWG				REV A	
	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	2	OF	4	

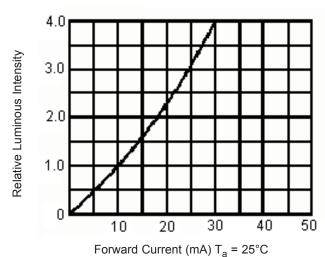


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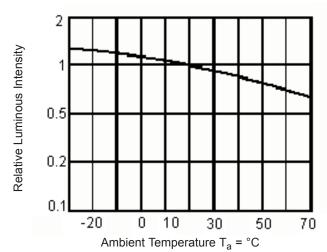
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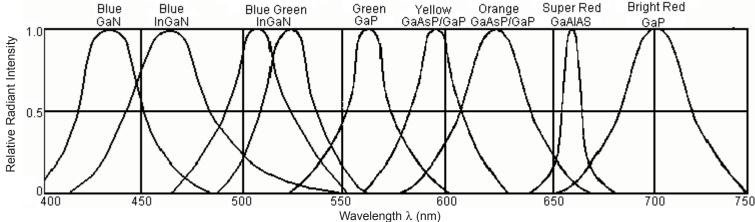
Orange (GaAsP/CaP λ P = 635nm)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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Suresh	25/09/08
APPROVED BY:	DATE:
Farnell	9/10/08

DRAWING TITLE:	
	2.0mm Tower LED Lamp - Orange

SIZE A	DWG NO.	M10001749	ELECTRONIC FILE L223AD_DWG				REV A
SCALI	E. NTS	II O M : mm (Inches)		SHEET:	3	OF	4



PART NO.

MCL223AD

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

Part Number Table

Description	Part Number		
LED, 2mm, 60°, Orange	MCL223AD		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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Г	CHECKED BY:	DATE:
[Suresh	25/09/08
	APPROVED BY:	DATE:
П	Farnell	9/10/08

DRAWI	NG TITLE:			
]		2.0mm Tower LED Lamp - Orange		
SIZE	DWG NO.	N410001740	ELECTRONIC FILE	
A		M10001749	L223AD_DWG	

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

SHEET: 4 OF 4

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