

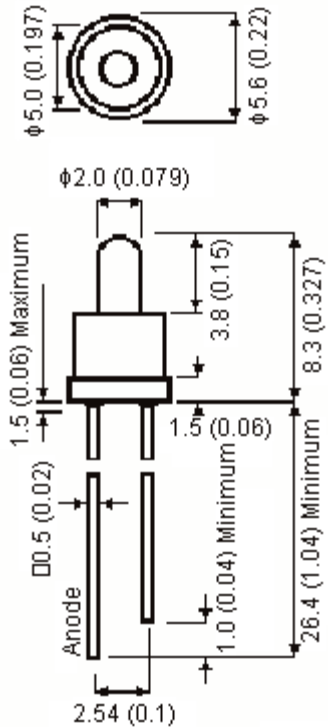


PART NO.

MCL223AD

REVISIONS

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



Dimensions : Millimetres (Inches)

Specifications:

Dice material : GaAsPon 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 $T_a = 25^\circ\text{C}$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	4.0	8.0	12	mcd	IF = 20mA
Viewing Angle	2 θ 1/2	-	60	-	degrees	
Peak Emission Wavelength	λ_p	-	635	-	nm	-
Dominant Wavelength	λ_D	-	625	-		-
Spectral Line Half-width	$\Delta\lambda$	-	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	-		-

UNLESS OTHERWISE

PURPOSES ONLY.

DRAWN BY:

Veena

DATE:

25/09/08

CHECKED BY:

Suresh

DATE:

25/09/08

APPROVED BY:

Farnell

DATE:

9/10/08

DRAWING TITLE:

2.0mm Tower LED Lamp - Orange

SIZE
A

DWG NO.

M10001749

ELECTRONIC FILE
L223AD_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 1 OF 4



PART NO.

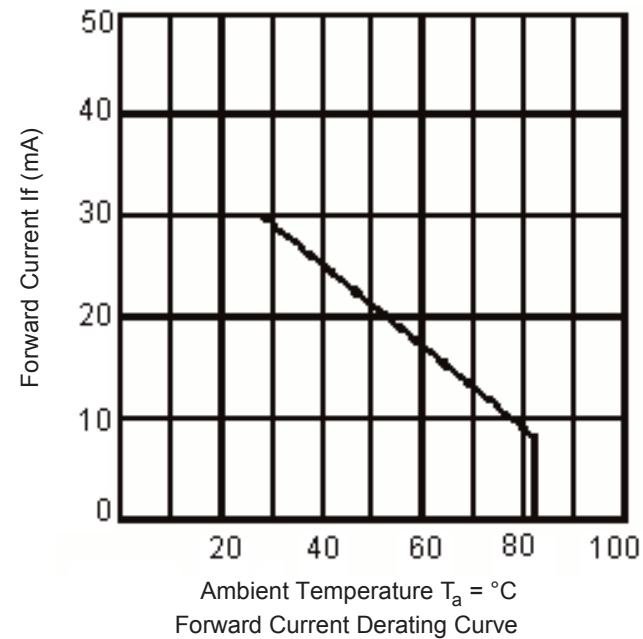
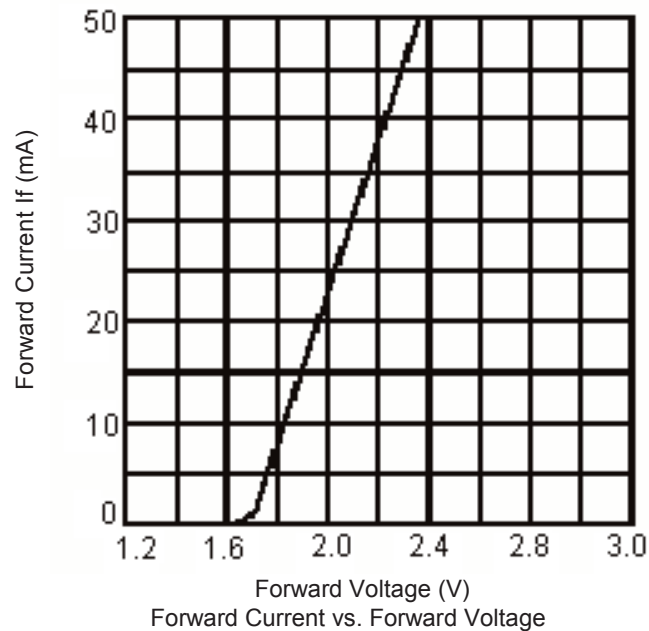
MCL223AD

REVISIONS

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

Reverse Voltage	5 Volt
Reverse Current	$10\mu\text{A}$ ($V_R = 5\text{V}$)
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 $\lambda_R = 635\text{nm}$)

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:

Veena

DATE:

25/09/08

CHECKED BY:

Suresh

DATE:

25/09/08

APPROVED BY:

Farnell

DATE:

9/10/08

DRAWING TITLE:

2.0mm Tower LED Lamp - Orange

SIZE
A

DWG NO.

M10001749

ELECTRONIC FILE
L223AD_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 2 OF 4

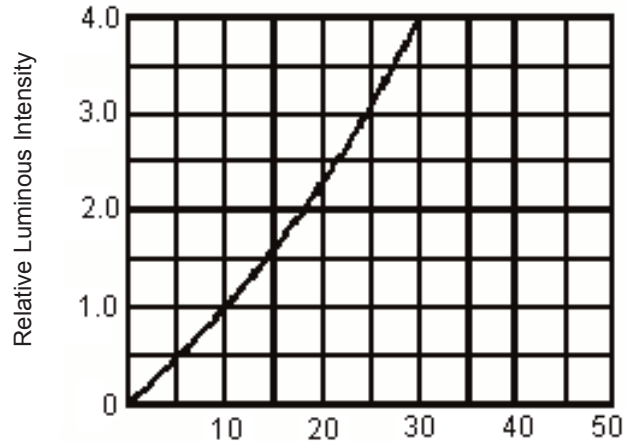
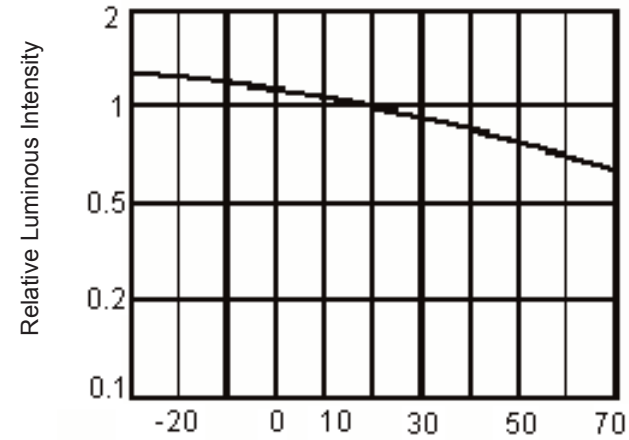
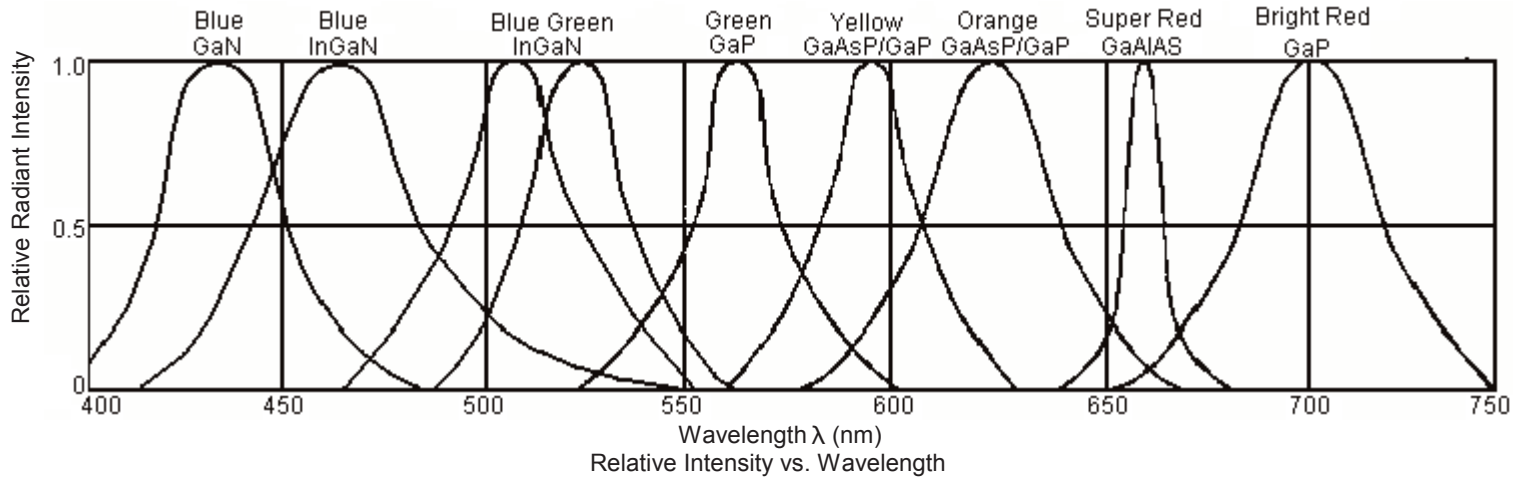


PART NO.

MCL223AD

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Orange (GaAsP/CaP $\lambda_R = 635\text{nm}$)Forward Current (mA) T_a = 25°C
Luminous Intensity vs. Forward CurrentAmbient Temperature T_a = °C
Luminous Intensity vs. Ambient TemperatureWavelength λ (nm)
Relative Intensity vs. Wavelength

TOLERANCES:

UNLESS OTHERWISE
SPECIFIED,
DIMENSIONS ARE
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DRAWN BY:

Veena

DATE:

25/09/08

CHECKED BY:

Suresh

DATE:

25/09/08

APPROVED BY:

Farnell

DATE:

9/10/08

DRAWING TITLE:

2.0mm Tower LED Lamp - Orange

SIZE
A

DWG NO.

M10001749

ELECTRONIC FILE
L223AD_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 3 OF 4



PART NO.

MCL223AD

REVISIONS

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

Part Number Table

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

TOLERANCES:

UNLESS OTHERWISE
SPECIFIED,
DIMENSIONS ARE
FOR REFERENCE
PURPOSES ONLY.

DRAWN BY:

Veena

CHECKED BY:

Suresh

APPROVED BY:

Farnell

DATE:

25/09/08

DATE:

25/09/08

DATE:

9/10/08

DRAWING 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: 4 OF 4