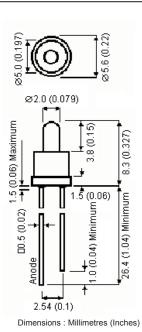


MCL223BD

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	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 : 60 degrees. Luminous intensity (IV) : 7.5mcd.

RoHS Compliant

Electrical/Optical Characteristics at $T_a = 25$ °C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	3.5	7.5	11	mcd	IF = 20mA
Viewing Angle	20 1/2	-	76	-	degrees	IF - ZUITA
Peak Emission Wavelength	λр	-	610	-		-
Dominant Wavelength	λD	-	608	-	nm	-
Spectral Line Half-width	Δλ	-	40	-		-
Forward Voltage	VF	1.7	21	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	-

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DATE:
25/09/08
DATE:
25/09/08
DATE:
09/10/08

Ε:	DRAW	ING TITLE:						
8		2	2.0mm Tower LED Lamp - Amber					
E:	SIZE	DWG NO.		ELEC	TRONIC FII	.E		REV
8	Α		M10001747	L223E	BD DWG			Α
E:								
8	SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	1	OF	4



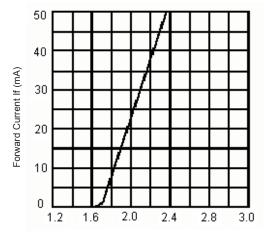
MCL223BD

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

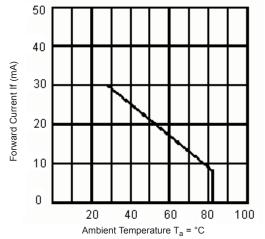
Absolute Maximum Ratings ($T_a = 25$ °C)

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

Amber (GaAsP/CaP λ P = 610nm)



Forward Voltage (V)
Forward Current vs. Forward Voltage



Forward Current Derating Curve

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

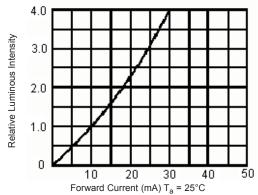
E:	DRAW	NG TITLE:							
8			2.0mm Tower LED Lamp - Amber						
E:	SIZE	DWG NO.		ELEC	TRONIC FII	LE.		REV	
8	Α		M10001747	L223E	BD_DWG			Α	
E: 8		E: NTS	U.O.M.: mm (Inches)		SHEET:	2	OF	- 4	



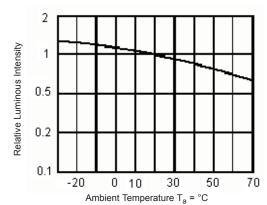
MCL223BD

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

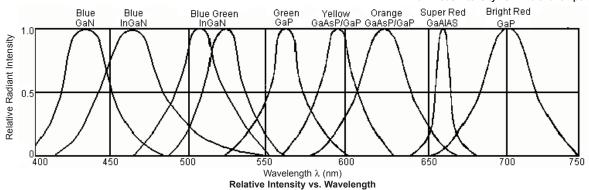
Amber (GaAsP/CaP λ P = 610nm)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



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 DATE:

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 25/09/08

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 DATE:

 Farnell
 09/10/08



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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°, Amber	MCL223BD

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

REV

Α

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

 DRAWING TITLE:

 2.0mm Tower LED Lamp - Amber

 SIZE A
 DWG NO.
 M10001747
 ELECTRONIC FILE L223BD_DWG

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