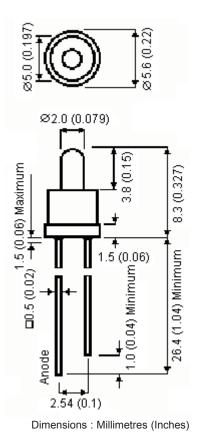


D A	D 7	- 61	
РΑ	ĸĸı	IN	U

MCL223MD

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 : Hi-eff red.
Lens colour : Red diffused.
Peak wavelength : 635nm.
Viewing angle : 60 degrees.
Luminous intensity (IV) : 7.8mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	3.5	7.8	11.5	mcd	IF = 20mA
Viewing Angle	20 1/2	-	60	-	degrees	IF - 2011A
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	-

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from megligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

UNLESS OTHERWISE
SPECIFIED.
DIMENSIONS ARE
DIMENSIONS ARE FOR REFERENCE
PURPOSES ONLY.

TOLERANCES:

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

DRAWING TITLE:								
	2	2.0mm Tower LED Lamp - HE-Red						
SIZE A	M10001746			ELECTRONIC FILE R L223MD_DWG				
SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	1 OF	4		



PART NO.

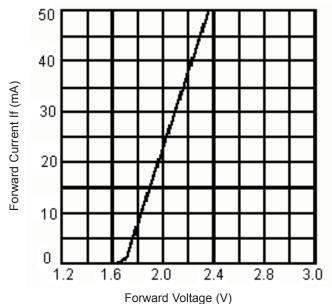
MCL223MD

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

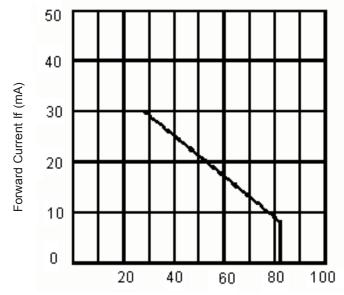
Absolute Maximum Ratings $(T_a = 25^{\circ}C)$

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 vs. Forward Voltage



Ambient Temperature T_a = °C

Forward Current Derating Curve

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injuny resulting from its regilgence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

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

	DRAWI	NG TITLE:							
			2.0mm Tower LED Lamp - HE-Red						
	SIZE A	DWG NO.	M10001746	I -	TRONIC FI	LE		REV A	
_	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	2	OF	4	

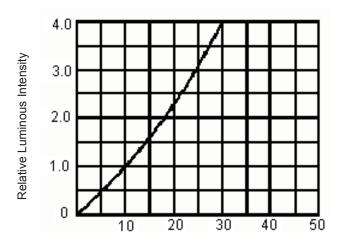


PART NO.

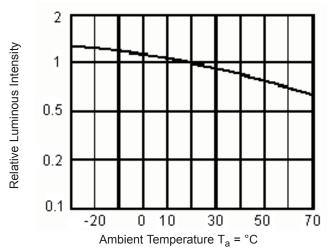
MCL223MD

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

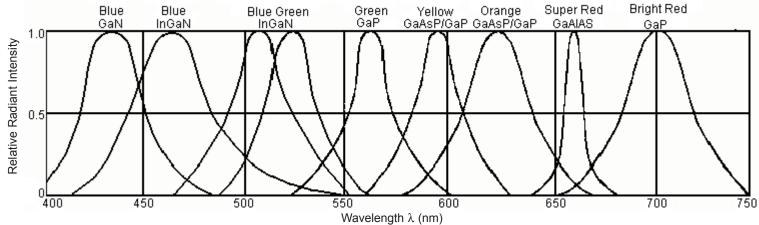
Orange (GaAsP/CaP λ P = 635nm)



Forward Current (mA) T_a = 25°C **Luminous Intensity vs. Forward Current**



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from the negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:
UNLESS OTHERWISE

SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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

DRAWI	NG TITLE:			
		2.0mm Tower LED Lamp - HE-Red		
SIZE	DWG NO		ELECTRONIC FILE	

 SIZE A
 DWG NO. A
 M10001746
 ELECTRONIC FILE L223MD_DWG
 REV A

 SCALE: NTS
 U.O.M.: mm (Inches)
 SHEET: 3 OF 4



PART NO.

MCL223MD

	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°, He-Red	MCL223MD		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

SHEET:

OF 4

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence.

SPC MULTICOMP is the registered trademank of the Group. © Premier Farnell pic 2008.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

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

SCALE: NTS

DRAWI	NG TITLE:				
		2.0mm Tower LED	Lamp - H	E-Red	
SIZE A	DWG NO.	M10001746	ELECTRONIC L223MD_DW		REV A
Ь Т			<u> </u>		

U.O.M.: mm (Inches)