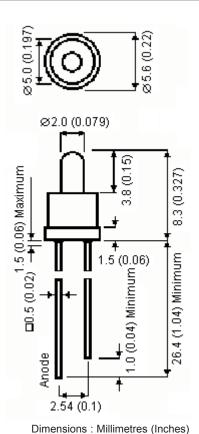


D A	\Box	- 1	N I	_
РΑ	n		w	ι.

MCL223SRD

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 : AIAGas.

Emitted colour : Super red.

Lens colour : Red diffused.

Peak wavelength : 660nm.

Viewing angle : 60 degrees.

Luminous intensity (IV) : 25mcd.



SHEET: 1

OF 4

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test	
Luminous Intensity	IV	13	25	40	mcd	IF = 20mA	
Viewing Angle	2θ 1/2	-	60	-	degrees	IF = ZUITA	
Peak Emission Wavelength	λр	-	660	-		-	
Dominant Wavelength	λD	-	643	-	nm	-	
Spectral Line Half-width	Δλ	-	20	-		-	
Forward Voltage	VF	1.5	1.85	2.5	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	-	

SCALE: NTS

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is grantled 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 ornission 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 regigence 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 regilgences. 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	09/10/08

:	DRAW	ING TITLE:			
			2.0mm Tower LED	Lamp - Super-Red	
:	SIZE A	DWG NO.	M10001751	ELECTRONIC FILE L223SRD_DWG	REV A
:					

U.O.M.: mm (Inches)



PART NO.

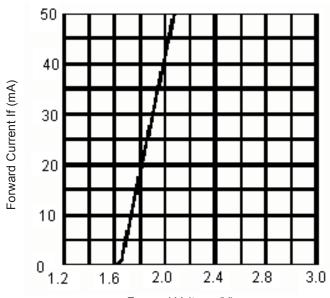
MCL223SRD

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

Super Red (GaAlAs) $\lambda P = 660$ nm)



Forward Voltage (V)
Forward Current vs. Forward Voltage

40 (wy) 30 20 10 20 40 60 80 100

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 regigence 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 FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

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

	DRAW	ING TITLE:							
			2.0	mm Tower LED I	_amp	- Supe	r-R	ed	
_	SIZE A	DWG NO.	M10001751			TRONIC FILE			REV A
SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	2	OF	4		

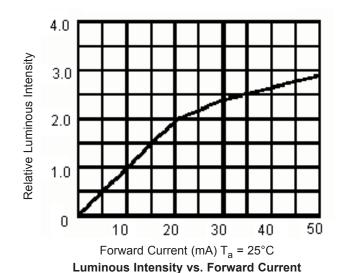


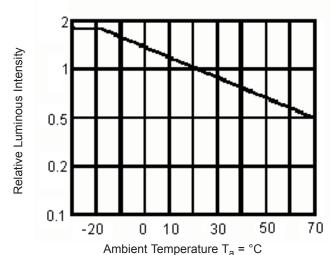
PART NO.

MCL223SRD

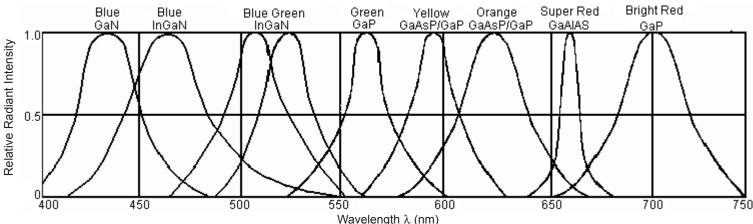
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	25/9/08	Suresh	25/9/08	Farnell	9/10/08

Super Red (GaAlAs) $\lambda P = 660$ nm





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	09/10/08

DRAWING TITLE:	
	2.0mm Tower LED Lamp - Super-Red

SIZE A	DWG NO.	M10001751		ELECTRONIC FILE L223SRD_DWG			REV A
SCALE: NTS		II O M · mm (Inches)		CHEET:	3	ΛF	: 1



PART NO.

MCL223SRD

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°, Super-Red	MCL223SRD

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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 prodtotal sheek should check for thereleves the intermination and me statistimity in 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 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	09/10/08

DRAW	ING TITLE:					
		2.0mm Tower LED Lamp - Super-Red				
SIZE	DWG NO.	M10001751	ELECTRONIC FILE L223SRD_DWG			

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

REV

Α