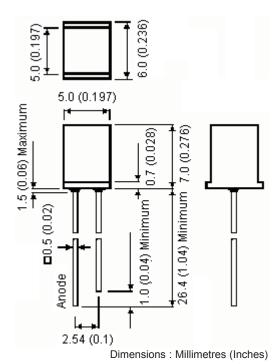


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MCL293MD

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	- A RELEASED		Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08



Specifications:

Dice material : GaAsP on GaP.

Emitted color : Hi-eff red.

Lens color : Red diffused.

Peak wavelength : 635nm.

Viewing angle : 150 degrees.

Luminous intensity (IV) : 4.8mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	2.5	4.8	7.5	mcd	IF = 20mA
Viewing Angle	20 1/2	-	150	-	degrees	1F - 2011A
Peak Emission Wavelength	• p	-	635	-		-
Dominant Wavelength	• 10	-	625	-	nm	-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	1.6	2.0	2.6	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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Geetha	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm x 5.0mm x 7.0mm Square LED Lamp - HE Red

	SIZE A	DWG NO.	M10001194	 TRONIC FIL I/D_DWG	_E		REV A
SCALE: NTS U.O.M.		U.O.M.: mm (Inches)	SHEET:	1	OF	4	



PART NO.

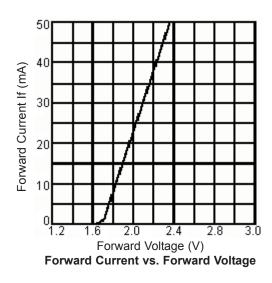
MCL293MD

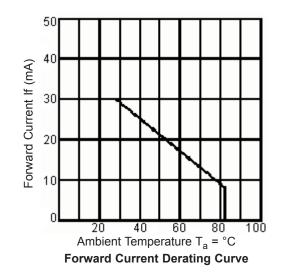
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	- A RELEASED		Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08

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)





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CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm x 5.0mm x 7.0mm Square LED Lamp - HE Red

-	SIZE A	DWG NO.	M10001194	 TRONIC FIL I/D_DWG	.E		REV A
SCALE: NTS U.O.M.: m		U.O.M.: mm (Inches)	SHEET:	2	OF	4	

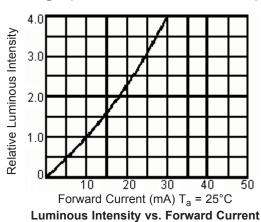


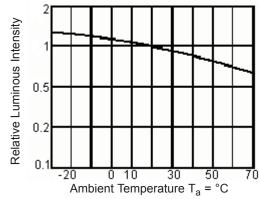
PART NO.

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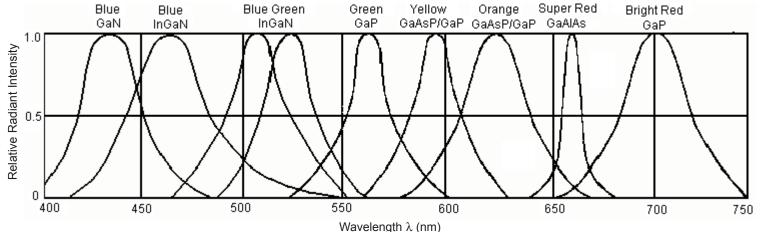
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Orange (GaAsP/CaP λ P = 635nm)





Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm x 5.0mm x 7.0mm Square LED Lamp - HE Red

	SIZE A	DWG NO.	M10001194	ELECTRONIC FILE L293MD_DWG				REV A
SCALE: NTS U.O.M.:		U.O.M.: mm (Inches)		SHEET:	3	OF	4	



PART NO.

MCL293MD

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08

Part Number Table

Description	Part Number	
LED, 5mmX5mm, 150°, HE-Red	MCL293MD	

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	G.Cook	13/06/08

DRAWING TITLE:

5.0mm x 5.0mm x 7.0mm Square LED Lamp - HE Red

 SIZE A
 DWG NO.
 M10001194
 ELECTRONIC FILE L293MD_DWG
 REV A

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