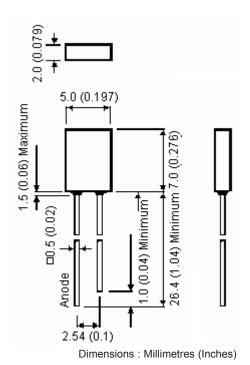


PΑ	R	Т	N	C

MCL453MD

		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



Specifications:

Dice material : GaAsP on GaP.
Emitted color : Hi-eff red.
Lens color : Red diffused.
Peak wavelength : 635nm.
Viewing angle : 120 degrees.
Luminous intensity (IV) : 3.8mcd.



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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.4	3.8	4.2	mcd	IF = 20mA
Viewing Angle	20 1/2	-	120	-	degrees	1F - 2011A
Peak Emission Wavelength	• p	-	635	-		-
Dominant Wavelength	• 10	-	625	-	nm	-
Spectral Line Half-Width	Δλ	-	40	-		-
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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TOLERANCES:

 DRAWN BY:
 DATE:

 Geetha
 29/05/08

 CHECKED BY:
 DATE:

 Suresh
 29/05/08

 APPROVED BY:
 DATE:

 G.Cook
 13/06/08

DRAWING TITLE:

2.0mm x 5.0mm Rectangular LED Lamp - HE Red

_	SIZE A	DWG NO.	M10001198	· ·	ELECTRONIC FILE L453MD_DWG				
_	SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	1	OF	4	



PART NO.

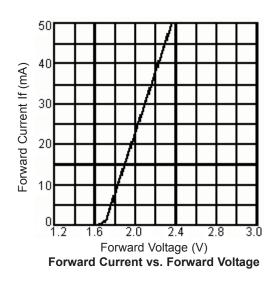
MCL453MD

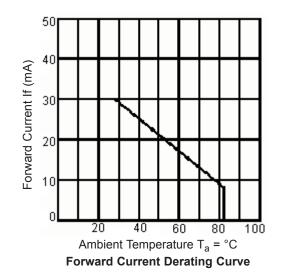
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
- A RELEASED		Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08	

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

DRAWI	NG IIILE:			
]	2.0mm x 5	.0mm Rectangular LE	ED Lamp - HE Red	
SIZE	DWG NO.	M10001198	ELECTRONIC FILE	Ī
		14110001130	LAESMD DWG	

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

SHEET: 2 OF 4

L453MD_DWG

REV

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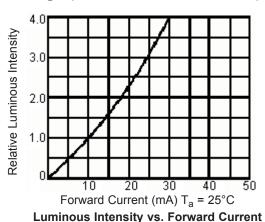


PART NO.

MCL453MD

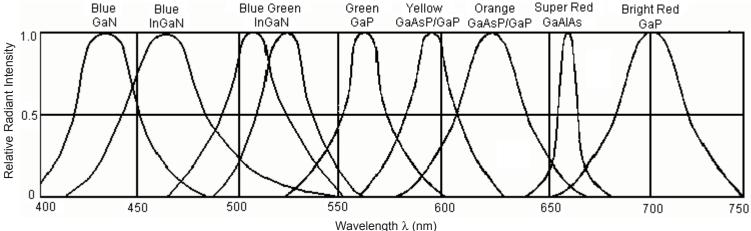
	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08

Orange (GaAsP/CaP λ P = 635nm)



Relative Luminous Intensity Ambient Temperature $T_a = {^{\circ}C}$

Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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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:

2.0mm x 5.0mm Rectangular LED Lamp - HE Red

SIZE A	DWG NO.	V110001198	ELEC L453N		REV A			
SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	3	OF	- 4	



PART NO.

MCL453MD

	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, 2mmX5mm, 120°, HE-Red	MCL453MD	

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

L453MD_DWG

REV

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

DRAWI	NG TITLE:			
2.0mm x 5.0mm Rectangular LED Lamp - HE Red				
SIZE	DWG NO.	M10001198	ELECTRONIC FILE	
1 / 1		14110001100	LASSMD DWG	

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