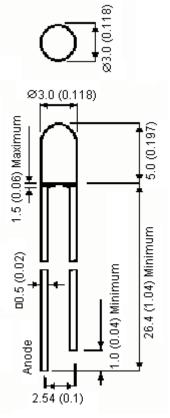


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MCL514MD

		REVISIONS			·	·	·	·
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08



Dimensions : Millimetres (Inches)

Specifications:

Dice material : GaAsP on GaP.

Emitted color : HI-eff red.

Lens color : Red diffused.

Peak wavelength : 635nm.

Viewing angle : 76 degrees.

Luminous intensity (IV) : 9.5mcd.



Electrical/Optical Characterisitics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	5.0	9.5	15	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	76	-	degrees	IF - 20IIIA
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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TOLERANCES:

DRAWN BY:	DATE:
Veena	27/06/08
CHECKED BY:	DATE:
Suresh	27/06/08
APPROVED BY:	DATE:
G.Cook	14/07/08

	DRAWING TITLE:							
	3.0mm Round LED Lamp - HE Red							
	SIZE	DWG NO.	M10001056	ELEC		REV		
	Α		VI10001230	/110001256 L514MD_DWG				
_	SCALE: NTS U.O.M.: mm (Inches)				SHEET:	1 OF	4	



PART NO.

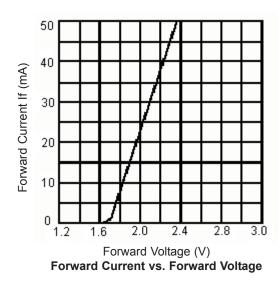
MCL514MD

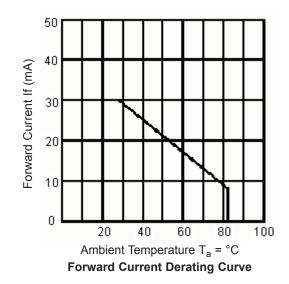
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08

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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Suresh	27/06/08
APPROVED BY:	DATE:
G.Cook	14/07/08

	DRAWING TITLE:								
	3.0mm Round LED Lamp - HE Red								
	SIZE A	DWG NO.	M10001256	1	TRONIC FIL I/D_DWG	.E		REV A	
_	SCAL	E: NTS	U.O.M.: mm (Inches) SHEET:				OF	4	

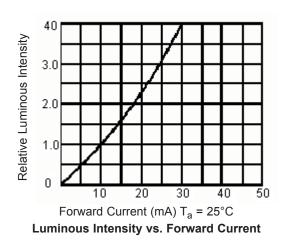


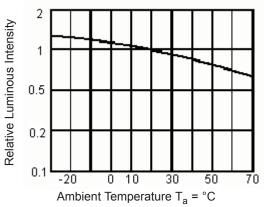
PART NO.

MCL514MD

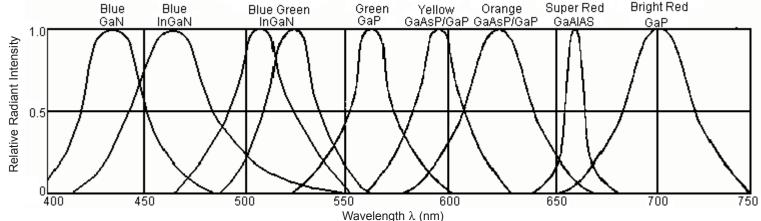
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08

Orange (GaAsP/CaP λ P = 635nm)





Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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Veena	27/06/08
CHECKED BY:	DATE:
Suresh	27/06/08
APPROVED BY:	DATE:
G.Cook	14/07/08
	ı

3.0mm Round LED Lamp - HE Red

| SIZE | DWG NO. | M10001256 | ELECTRONIC FILE | REV | L514MD_DWG | A | SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 3 OF 4



PART NO.

MCL514MD

		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08

Part Number Table

Description	Part Number		
LED, 3mm, 70°, HE-Red	MCL514MD		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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TOLERANCES:

	DRAWN BY:	DATE:
	Veena	27/06/08
	CHECKED BY:	DATE:
	Suresh	27/06/08
	APPROVED BY:	DATE:
	G.Cook	14/07/08

DRAWING TITLE:								
	3.0mm Round LED Lar				np - HE F	Red		
	SIZE A	DWG NO.	M10001256	ELECTRONIC FILE L514MD_DWG			REV A	
SCALE: NTS		E: NTS	U.O.M.: mm (Inches)		SHEET:	4 (ϽF	4