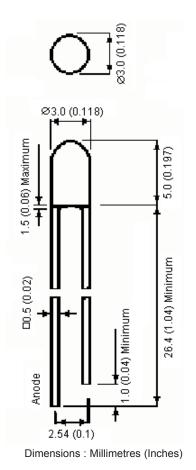


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MCL514PD

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



Specifications:

Dice material : GaP.

Emitted color : HI-red.

Lens color : Red diffused.

Peak wavelength : 697nm.

Viewing angle : 76 degrees.

Luminous intensity (IV) : 1.6mcd.



Electrical/Optical Characterisitics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	0.8	1.6	2.5	mcd	IF = 10mA
Viewing Angle	2θ 1/2	-	70	-	degrees	IF - TOTTIA
Peak Emission Wavelength	• p	-	697	-		-
Dominant Wavelength	• 10	-	650	-	nm	-
Spectral Line Half-Width	Δλ	-	90	-		-
Forward Voltage	VF	1.7	2.1	2.6	V	IF = 10mA
Power Dissipation	Pd	-	-	45	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	50	-	-
Recommended Operating Current	IF (Rec)	-	10	-	mA	-

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

:	DRAWI	NG TITLE:						
3			3.0mm Round LE	D Lar	np - HI F	Red		
:	SIZE	DWG NO.	140004057	ELEC	TRONIC FII	_E		REV
] A		M10001257		L514PD_DWG			Α
:			I					
3	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	1	OF	4



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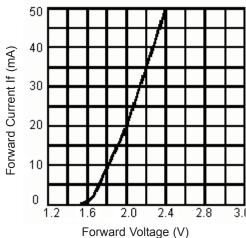
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-	Α	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08

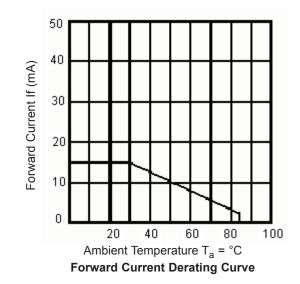
Absolute Maximum Ratings ($T_a = 25$ °C)

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

Bright Red (Gap $\lambda P = 697$ nm)



Forward Current vs. Forward Voltage



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 DATE:

 Suresh
 27/06/08

 APPROVED BY:
 DATE:

 G.Cook
 14/07/08

	DRAWI	NG TITLE:						
	3.0mm Round LED Lamp - HI Red							
	SIZE A	DWG NO.	M10001257	· ·	TRONIC FIL	E	REV A	
SCALE: NTS			U.O.M.: mm (Inches)		SHEET:	2 OF	= 4	

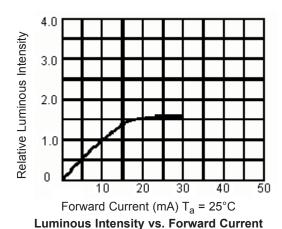


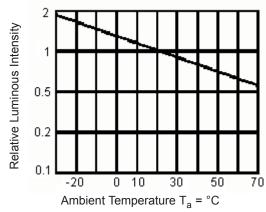
PART NO.

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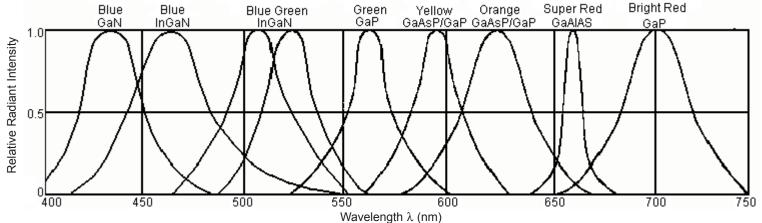
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Bright Red (Gap $\lambda P = 697$ nm)





Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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

DRAWI	NG TITLE:		
		3.0mm Round LE	ED Lamp - HI Red
SIZE	DWG NO		ELECTRONIC FILE

_	SIZE	DWG NO.	M10001257	ELECTRONIC FILE L514PD_DWG				REV A	
	SCALE: NTS		U.O.M.: mm (Inches)		SHEET: 3 O		OF	4	



PART NO.

MCL514PD

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

Part Number Table

Description	Part Number			
LED, 3mm, 70°, HI-Red	MCL514PD			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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

DRAWING TITLE:							
3.0mm Round LED Lamp - HI Re							
SIZE DWG NO.		M10001257	ELECTRONIC FILE L514PD_DWG			REV A	
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