



PART NO.

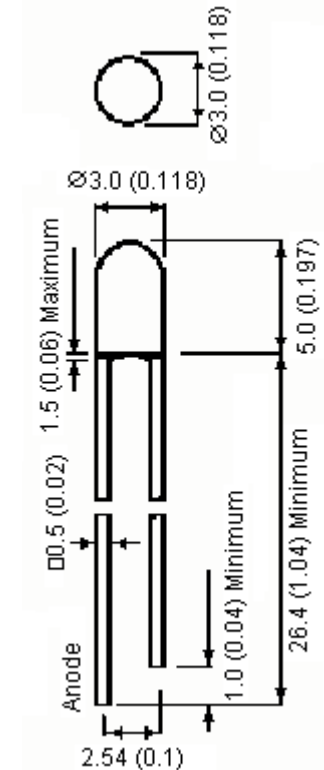
MCL514GD

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08

Specifications:

Dice material : GaP.  
 Emitted color : Green.  
 Lens color : Green diffused.  
 Peak wavelength : 568nm.  
 Viewing angle : 76 degrees.  
 Luminous intensity (IV) : 10mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	6	10	16	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	76	-	degrees	
Peak Emission Wavelength	• λ <sub>p</sub>	-	568	-	nm	-
Dominant Wavelength	• λ <sub>d</sub>	-	570	-		-
Spectral Line Half-Width	Δλ	-	30	-		-
Forward Voltage	V <sub>F</sub>	1.7	2.1	2.6	V	IF = 20mA
Power Dissipation	P <sub>d</sub>	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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TOLERANCES:

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DRAWN BY:	DATE:
Veena	25/06/08
CHECKED BY:	DATE:
Suresh	25/06/08
APPROVED BY:	DATE:
G.Cook	10/07/08

DRAWING TITLE:

3.0mm Round LED Lamp - Green

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001254	L514GD_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 4	



PART NO.

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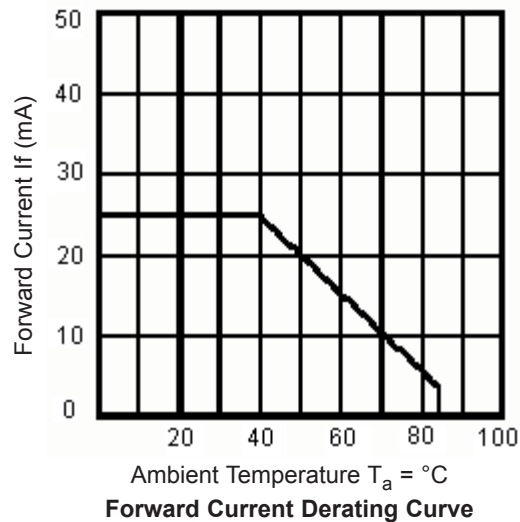
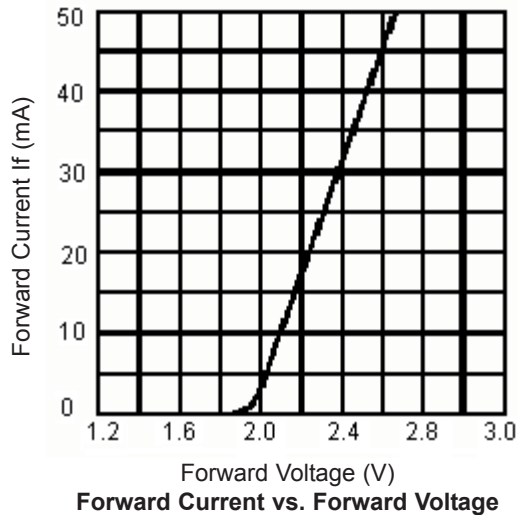
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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

Reverse Voltage	5 Volt
Reverse Current	10µA (V <sub>R</sub> = 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

**Green (GaP λP = 568nm)**



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3.0mm Round LED Lamp - Green			
<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
A	M10001254	L514GD_DWG	A
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 2 OF 4</b>



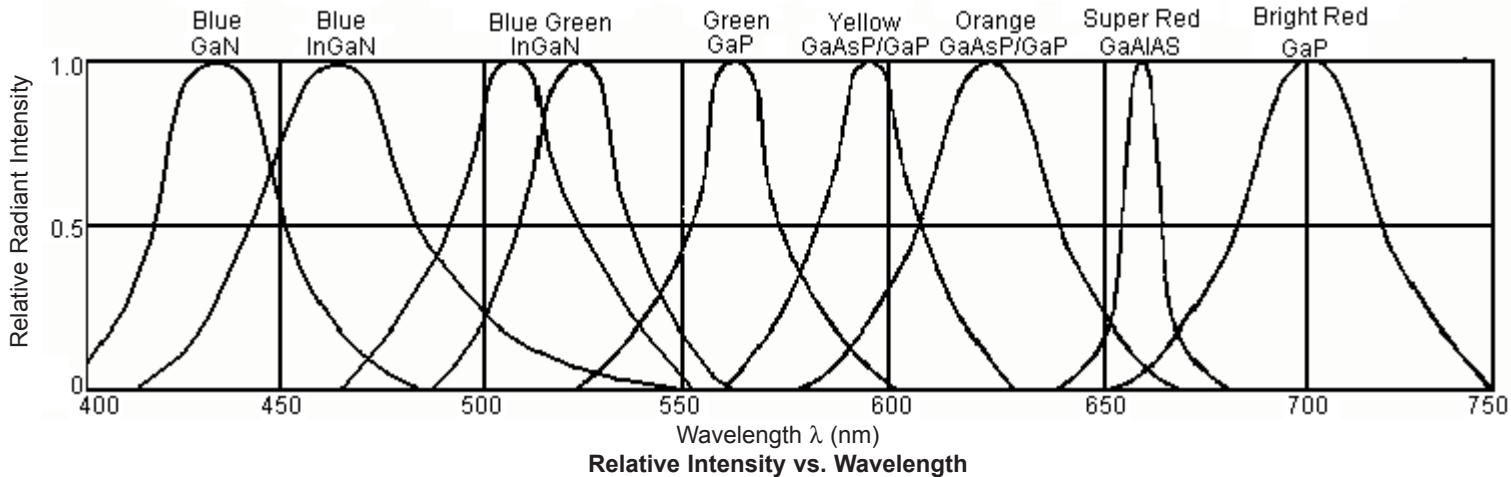
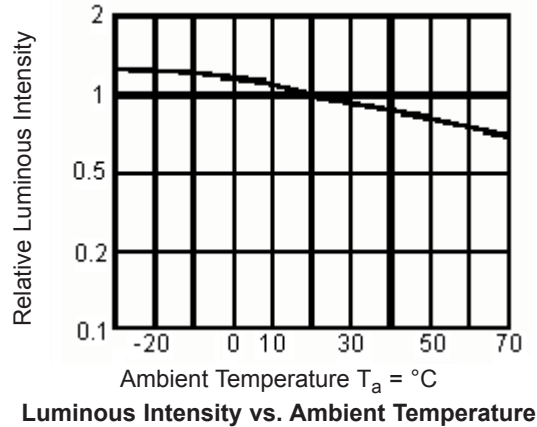
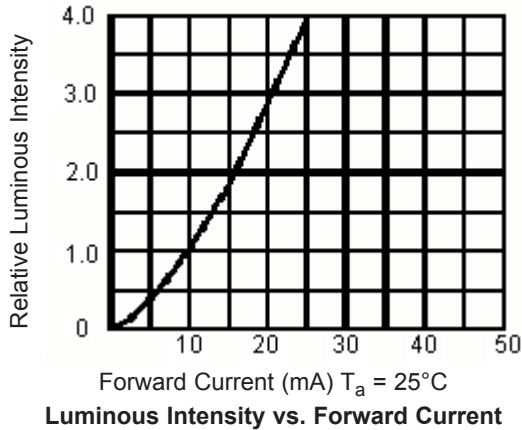
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Green (GaP  $\lambda_P = 568\text{nm}$ )



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**DRAWING TITLE:**

3.0mm Round LED Lamp - Green

<b>SIZE</b> A	<b>DWG NO.</b> M10001254	<b>ELECTRONIC FILE</b> L514GD_DWG	<b>REV</b> A
<b>SCALE:</b> NTS		<b>U.O.M.:</b> mm (Inches)	<b>SHEET:</b> 3 OF 4



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Part Number Table

Description	Part Number
LED, 3mm, 70°, Green	MCL514GD

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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