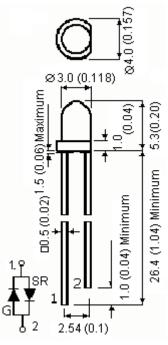


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MCL036PURGW

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Ramya	14/10/09	Jagan	14/10/09	Farnell	28/10/09



Dimensions: Millimetres (Inches)

Specifications:

Dice material : AIAGas/GaP.
Emitted colour : Super red/green.
Lens colour : Water diffused.
Peak wavelength : 660/568nm.
Viewing angle : 76 degrees.
Luminous intensity (IV) : 30/10 mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	18/6	30/10	50/18	mcd	IF = 20mA
Viewing Angle	20 1/2	-	76	-	degrees	1F = 2011IA
Peak Emission Wavelength	• p	-	660/568	-		-
Dominant Wavelength	• 10	-	643/570	-	nm	-
Spectral Line Half-Width	Δλ	-	20/30	-		-
Forward Voltage	VF	1.5/1.7	1.8/2.1	2.5/2.6	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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CHECKED BY:	DATE:
Jagan	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

	DRAWI	NG IIILE:							
	3.0mm Bi-colour LED Lamp - HI Red/Green								
	1 M110002200		ELECTRONIC FILE 52952_1581204_DWG				REV A		
-	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	1	OF	5	



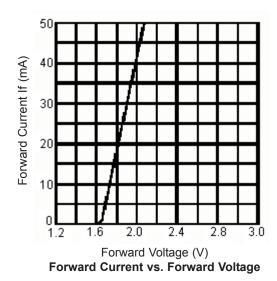
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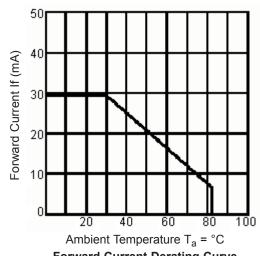
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Absolute Maximum Ratings ($T_a = 25$ °C)

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

Super Red (GaAlAs) $\lambda P = 660$ nm)





Forward Current Derating Curve

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APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING	TITLE:

3.0mm Bi-colour LED Lamp - HI Red/Green

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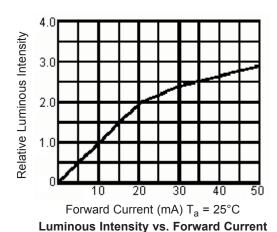
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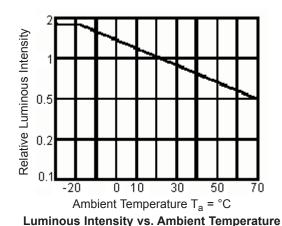


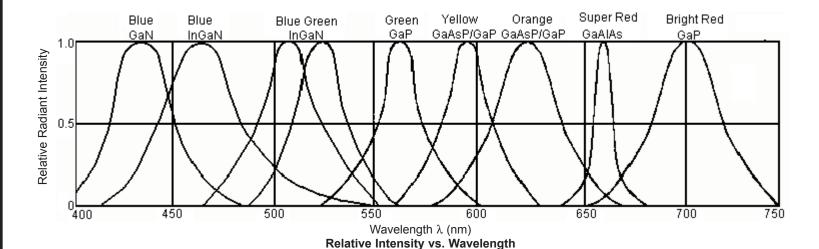
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Super Red (GaAlAs) $\lambda P = 660$ nm)







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APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE:

3.0mm Bi-colour LED Lamp - HI Red/Green

REV

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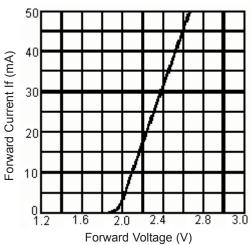
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 U.O.M.: mm (Inches)
 SHEET: 3 OF 5



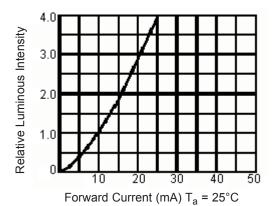
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Green (GaP λ P = 568nm)

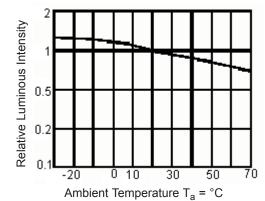


Forward Current vs. Forward Voltage



Luminous Intensity vs. Forward Current

Young Current Derating Curve



Luminous Intensity vs. Ambient Temperature

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Sridhar	14/10/09
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RAWING TITLE:			
3.0mm	Bi-colour LED	Lamp - HI	Red/Green

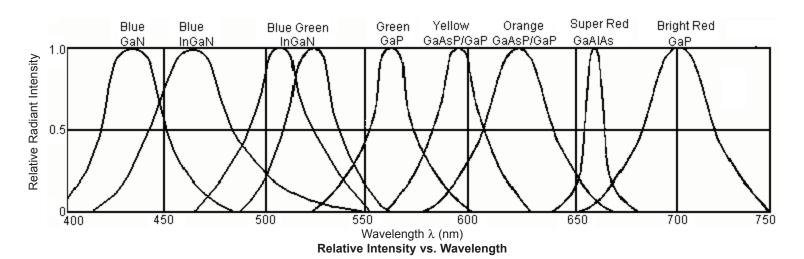
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Part Number Table

Description	Part Number
LED, 3mm, AC, HI-Red/Green	MCL036PURGW

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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APPROVED BY:	DATE:
Farnell	28/10/09

DRAWI	DRAWING TITLE:							
3.0mm Bi-colour LED Lamp - HI Red/Green								
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