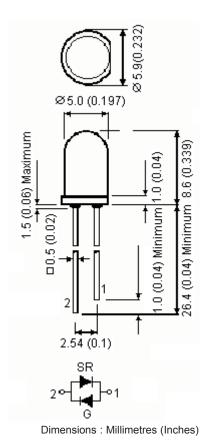


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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09



Specifications:

Dice material : AIAGas/GaP. Emitted colour : Super red/green. Lens colour : White diffused. Peak wavelength : 660/568nm. : 45 degrees. Viewing angle Luminous intensity (IV) : 50/15mcd.



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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	25/7	50/15	70/24	mcd	IF = 20mA
Viewing Angle	20 1/2	-	45	-	degrees	IF - 2011A
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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Ramya	14/10/09
CHECKED BY:	DATE:
Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE:							
5.0mm Bi-colour LED Lamp - HI Red/Green							
SIZE A	DWG NO.	M10002393		TRONIC FI 0_1581207		'G	REV A
SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	1	OF	5



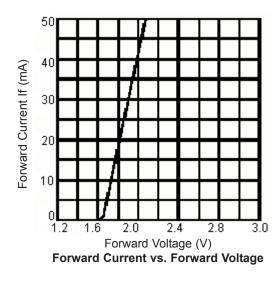
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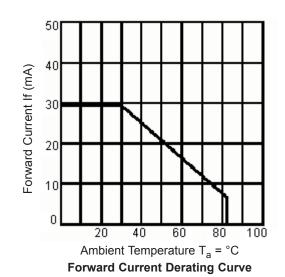
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Absolute Maximum Ratings ($T_a = 25$ °C)

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)





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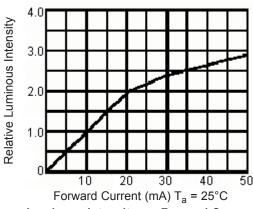
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5.0mm Bi-colour LED Lamp - HI Red/Green							
SIZE A	DWG NO.	M10002393		TRONIC FI 0_1581207		G	REV A
SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	2	OF	5

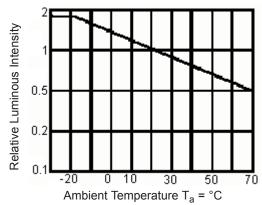


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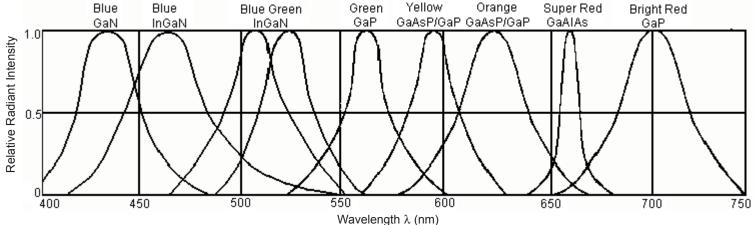
Super Red (GaAlAs) $\lambda P = 660$ nm)





Luminous Intensity vs. Forward Current

Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE:

5.0mm Bi-colour LED Lamp - HI Red/Green

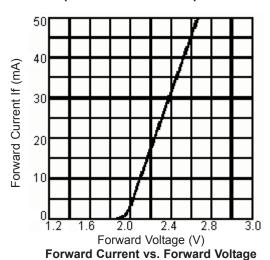
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SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	3	OF	5

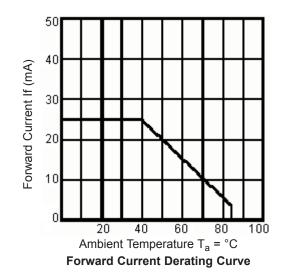


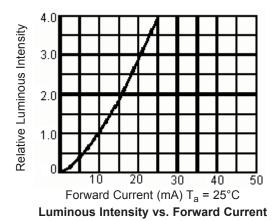
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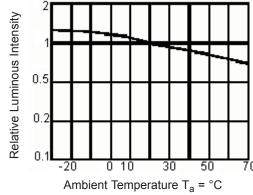
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Green (GaP λ P = 568nm)









Luminous Intensity vs. Ambient Temperature

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Farnell	28/10/09

DRAWING TITLE:							
	5.0mm Bi-colour LED Lamp - HI Red/Green						
SIZE	DWG NO.	M10002202	ELECTRONIC FILE	REV			

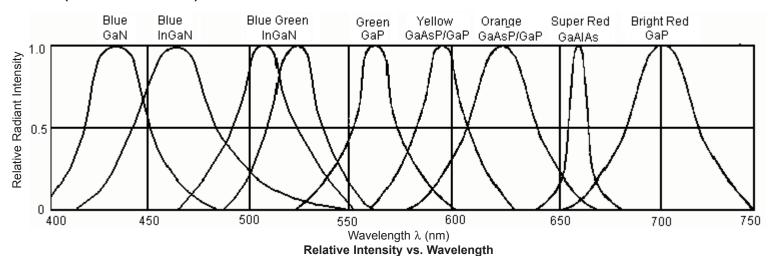
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Green (GaP λ P = 568nm)



Part Number Table

Description	Part Number
LED, 5mm, AC, HI-Red/Green	MCL056PURGW

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE:							
	5.0mm Bi-colour LED Lamp - HI Red/Green						
SIZE	DWG NO.	N. 1.1.00000000	ELECTRONIC FILE	REV			

_	_ A	M10002393	52960_1581207_DWG	Α
	SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 5 OI	- 5