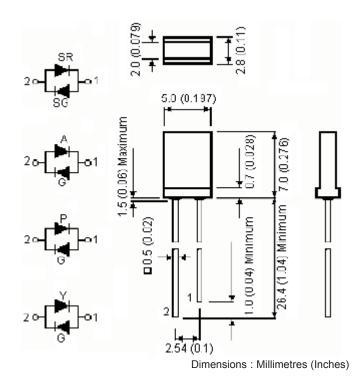


MCL236PURGW

REVISIONS								
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 : GaAlAs/GaP.
Emitted colour : Super red/green.
Lens colour : White diffused.
Peak wavelength : 660/568nm.
Viewing angle : 120 degrees.
Luminous intensity (IV) : 12/3.1mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	6.0/1.4	12/3.1	18/4.9	mcd	IF = 20mA
Viewing Angle	20 1/2	-	120	-	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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TOLERANCES:

DRAWN BY:	DATE:
Ramya	14/10/09
CHECKED BY:	DATE:
Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE:

2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - HI Red/Green

SIZE A	DWG NO.	M10002406	 TRONIC FIL _1581210_D			REV A	,
SCALI	E: NTS	U.O.M.: mm (Inches)	SHEET:	1	OF	5	



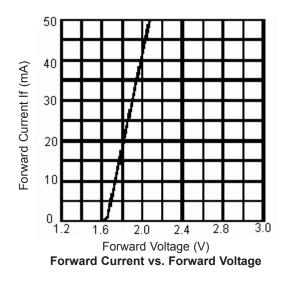
MCL236PURGW

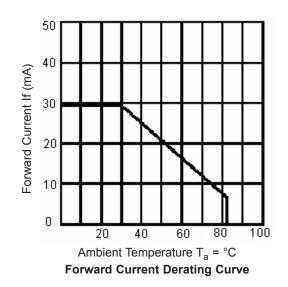
	REVISIONS							
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-	Α	RELEASED	Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09

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

DRAWING TITLE:

2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - HI Red/Green

SIZE DWG NO. ELECTRONIC FILE REV 79377_1581210_DWG A

SCALE: NTS U.O.M.: mm (Inches)

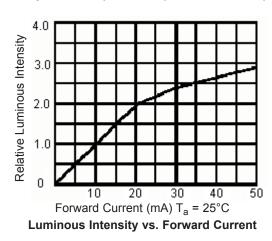
SHEET: 2 OF 5

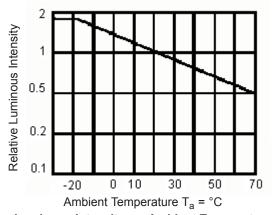


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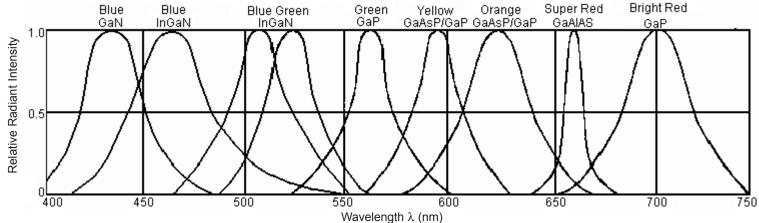
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Super Red (GaAlAs) $\lambda P = 660$ nm)





Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE:

2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - HI Red/Green

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	SIZE	DWG NO.	ELECTRONIC FILE	REV
	^		79377 1581210 DWG	Δ

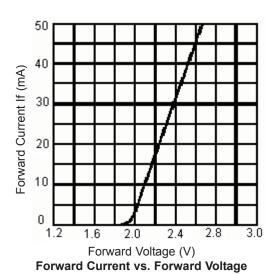
SCALE: NTS U.O.M.: mm (Inches) SHEET: 3 OF 5

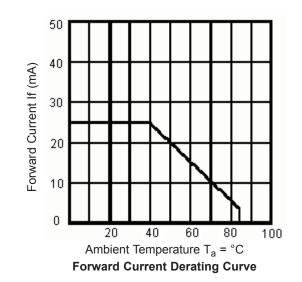


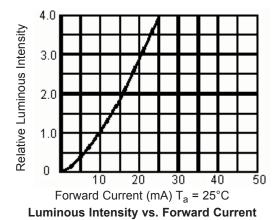
MCL236PURGW

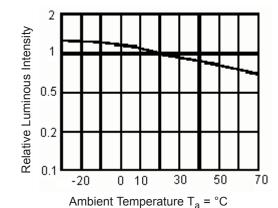
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Green (GaP λ P = 568nm)









Luminous Intensity vs. Ambient Temperature

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

DRAWING TITLE:

2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - HI Red/Green

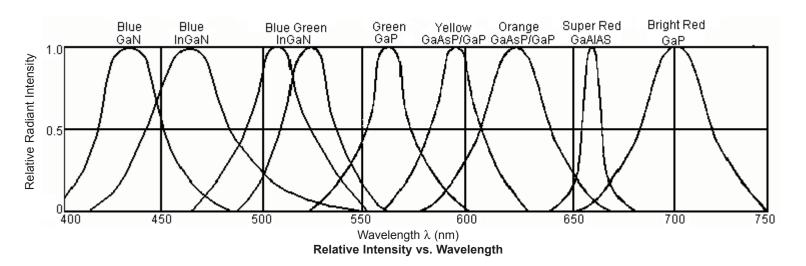
DWG NO. **ELECTRONIC FILE** SIZE **REV** 79377_1581210_DWG Α

SCALE: NTS U.O.M.: mm (Inches) SHEET: 4 OF 5



MCL236PURGW

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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



Part Number Table

Description	Part Number
LED, 2mm x 5mm, Hi-Red/Green	MCL236PURGW

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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APPROVED BY:	DATE:		
Farnell	28/10/09		

DRAWING TITLE:
2.0mm x 5.0mm x 7.0mm Bi-colour LED Lamp - HI Red/Green

SIZE DWG NO. ELECTRONIC FILE REV 79377_1581210_DWG A

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