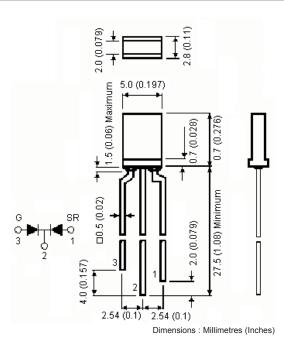


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		REVISIONS						
ECN #	CN # REV DESCRIPTION		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED		14/10/09	Sridhar	14/10/09	Farnell	28/10/09



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	2θ 1/2	-	120	-	degrees	IF - ZUITA
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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 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 Multi-colour LED Lamp - HI Red/Green | SIZE | DWG NO. | M10002397 | ELECTRONIC FILE | 52944_1581201 (2)_DWG | A | SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 OF 5



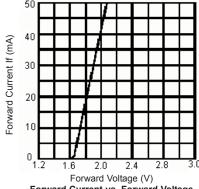
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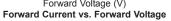
		REVISIONS						
ECN#	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	- A RELEASED		Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09

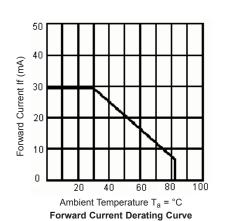
Absolute Maximum Ratings ($T_a = 25$ °C)

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)







TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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 Multi-colour LED Lamp - HI Red/Green

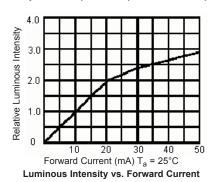
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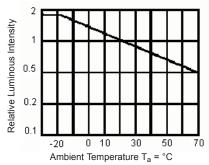


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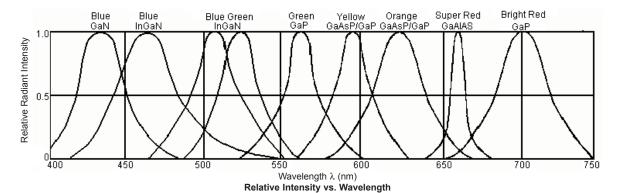
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ECN	# R	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	- A RELEASED		Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09	

Super Red (GaAlAs) λP = 660nm)





Luminous Intensity vs. Ambient Temperature



TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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 Multi-colour LED Lamp - HI Red/Green SIZE DWG NO. **ELECTRONIC FILE** REV M10002397

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

3 OF

52944_1581201 (2)_DWG

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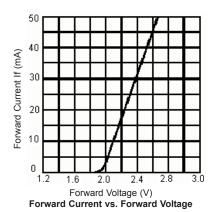
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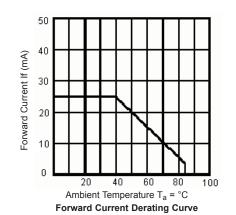
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A RELEASED		Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09

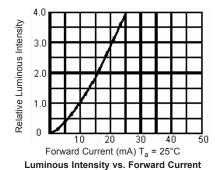
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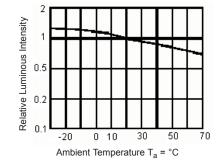
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Green (GaP λ P = 568nm)









Luminous Intensity vs. Ambient Temperature

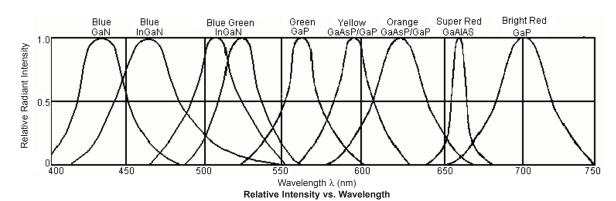
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CHECKED BY:	DATE:	SIZE	DWG NO.	M10002207		LECTRONIC FILE						
Sridhar	14/10/09	Α				52944 1581201 (2) DWG						
APPROVED BY:	DATE:		<u> </u>						_			
Farnell	28/10/09	SCAL	.E: NTS	U.O.M.: mm (Inches)		SHEET:	4	OF	5			



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ECN #	ECN # REV DESCRIPTION - A RELEASED		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-			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	MCL239PURGW

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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

	DRAW	ING TITLE:						
2.0mm x 5.0mm x 7.0mm Multi-colour LED Lamp - HI Red/Green							een	
	SIZE	DWG NO.	M10002397	ELECTRONIC FILE				
	Α	·	VI10002397	52944	2944_1581201 (2)_DWG			
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