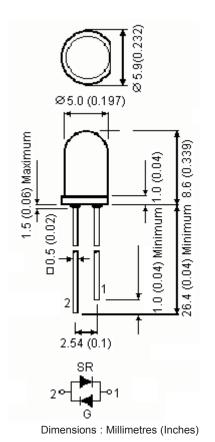


PART N

MCL056SRGW

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08



Specifications:

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



SHEET: 1 OF 5

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 = ZUIIIA
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	-

SCALE: NTS

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DRAWN BY:	DATE:
Geetha	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAW	NG IIILE:		
	5.0mm Bi-Color LED Lan	np - HI Red / Gree	n
CIZE	DWO NO	ELECTRONIC ELLE	_

SIZE DWG NO. M10001192 ELECTRONIC FILE REV L056SRGW_DWG A

U.O.M.: mm (Inches)



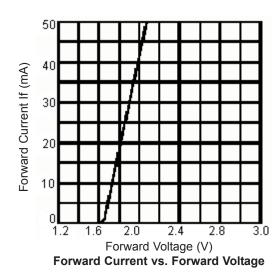
MCL056SRGW

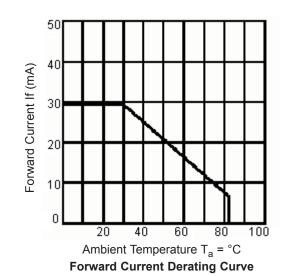
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Absolute Maximum Ratings ($T_a = 25$ °C)

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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Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWI	NG IIILE:			
	5.0m	m Bi-Color LED Lan	np - HI Red / Gree	n
SIZE	DWG NO.	N 1 1 1 1 1 1 1 1 1 1	ELECTRONIC FILE	R

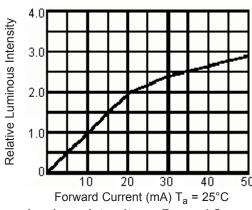
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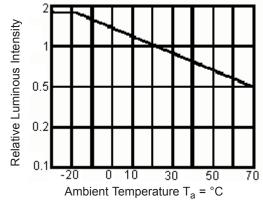
MCL056SRGW

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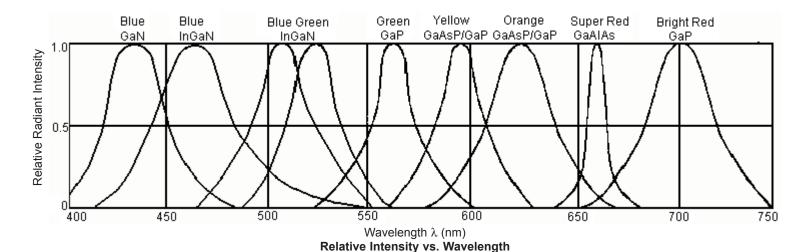
Super Red (GaAlAs) $\lambda P = 660$ nm)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



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DRAWING TITLE:

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

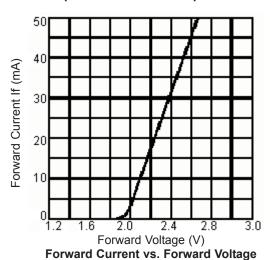
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SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	3	OF	5

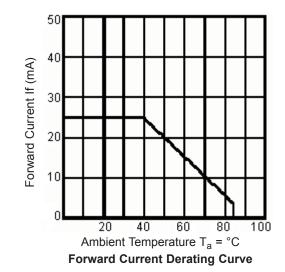


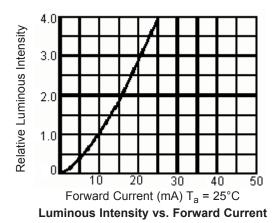
MCL056SRGW

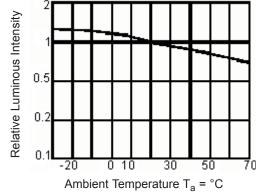
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Green (GaP λ P = 568nm)









Luminous Intensity vs. Ambient Temperature

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APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWI	NG TITLE:		
	5.0mm Bi-Color LED Lan	np - HI Red / Gree	n
SIZE	DWG NO	ELECTRONIC ELLE	

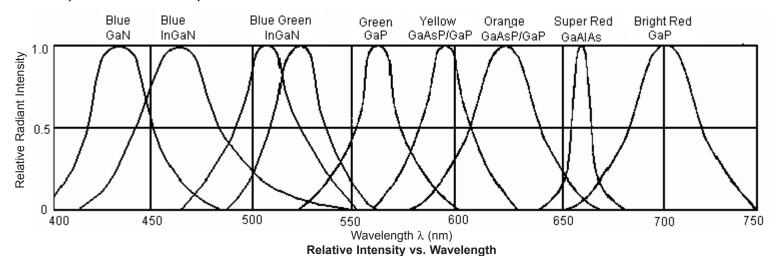
	SIZE A	DWG NO.	M10001192	ELECTRONIC FILE L056SRGW_DWG				REV A	,
_	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	4	OF	5	



MCL056SRGW

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Green (GaP λ P = 568nm)



Part Number Table

Description	Part Number
LED, 5mm, AC, HI-Red/Green	MCL056SRGW

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAW	NG TITLE:		
	5.0mm Bi-Color LED Lan	np - HI Red / Gree	n
SIZE	DWG NO	ELECTRONIC ELLE	

SIZE	DWG NO.	M10001192	ELECTRONIC FILE L056SRGW_DWG				REV A	
SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	5	OF	5	