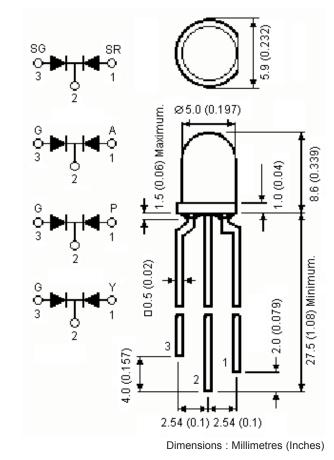
PART N	PART NO.	REVISIONS										
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE		
	MCL059AGW	-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08		



#### **Specifications:**

Dice material	
Emitted color	
Lens color	
Peak wavelength	
Viewing angle	
Luminous intensity	(IV)

- : White diffused.
- : 635/568nm.
- : 45 degrees.
- intensity (IV) : 16/15mcd.
- : GaAsP on GaP/GaP. : Orange/green.



# Electrical/Optical Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	8/7	16/15	25/22	mcd	IF = 20mA
Viewing Angle	20 1/2	-	45	-	degrees	11° – 2011A
Peak Emission Wavelength	• p	-	635/568	-		-
Dominant Wavelength	• 10	-	625/570	-	nm	-
Spectral Line Half-Width	Δλ	-	45/30	-		-
Forward Voltage	VF	1.6/1.7	2.0/2.1	2.6/2.6	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	-

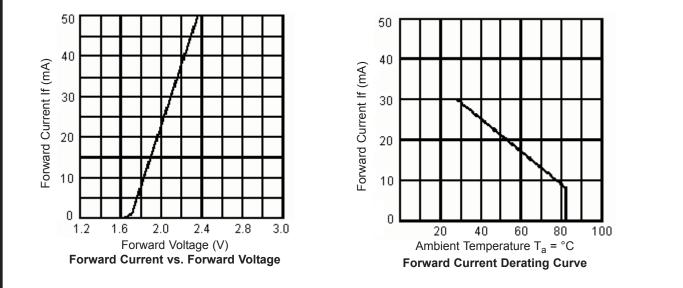
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out notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
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<ul> <li>omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit</li> </ul>	PURPOSES ONLY.	APPROVED BY:	DATE:				
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multicomp	PART NO.			REVISIONS						
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCL059AGW	-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08

# Absolute Maximum Ratings ( $T_a = 25^{\circ}C$ )

Reverse Voltage	5 Volt
Reverse Current	10μA (V <sub>R</sub> = 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

### Orange (GaAsP/CaP $\lambda$ P = 635nm)



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•	PART NO.			REVISIONS						
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DA
	MCL059AGW	-	A	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/
Orange (GaAsP/CaP λP	= 635 nm)									
≥ 4.0										
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			┦							
2.0 2.0										
3.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1										
	<u> </u>	┼┼╂								
10 20 30	40 50 0.1	10 30	5	0 70						
Forward Current (mA) T Luminous Intensity vs. For	a = 25°C Ambient Ten	nperature	T <sub>a</sub> = °	С						
Luminous intensity vs. For	vard Current Luminous Intensity	vs. Ambi	ent Te	mperature						
Blue Blue GaN InGaN	Blue Greeen Green Yellov I InGaN GaP GaAsP/	w Or GaP GaA	ange sPíGa	Super Red Bright Red P GaAlAs GaP						
			$\overline{\mathbf{n}}$		1					
	$\mathbf{X} = \mathbf{X} \mathbf{Y} \mathbf{X} + \mathbf{U} \mathbf{X} \mathbf{U}$	k /								
Relative Radiant Intensity	$\land \land $	N / -								
	$\Lambda / [/ \Lambda \Lambda / ]/ \Lambda / ]$	<u>IV</u>	1							
	$X   / \langle \rangle \rangle$	Μ								
	$  / \vee   \times   \wedge \rangle$	ľΝ								
$\mathbb{P}$ / /   $\setminus$	/ /\_ \_\ X									

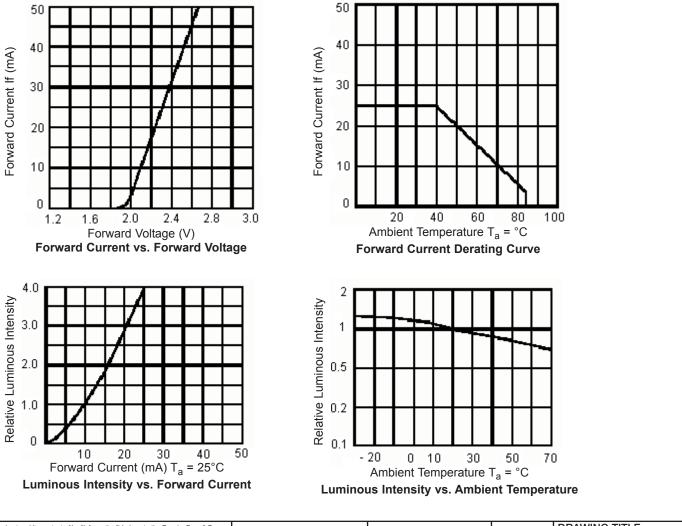
Wavelength  $\lambda$  (nm) Relative Intensity vs. Wavelength

0 \_\_\_\_\_ 400

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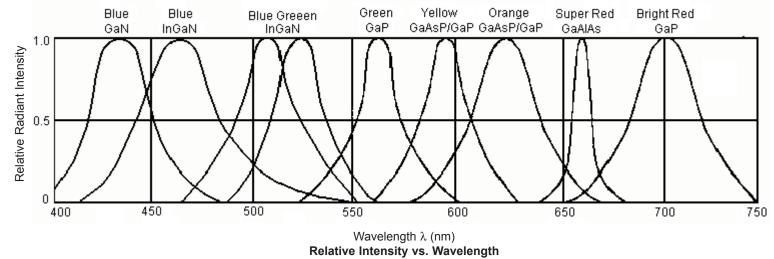
multicomp	PART NO.			REVISIONS						
	-	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCL059AGW	-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08
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information purposes in connection with the products to which it relates. No licence	UNLESS OTHERWISE	Rekha	27/05/08	] 5.0mm M	5.0mm Multi-Color LED Lamp - Orange / Gree					
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childed Elability for loop of damage redating north any forable of the internation of	PURPOSES ONLY.	APPROVED BY:	DATE:			L				
or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Famel plc 2008.	injury resulting from its negligence.		11/06/08	SCALE: NTS	U.O.M.: mm (Inches)		SHEET: 4	OF 5		

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	-	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
	MCL059AGW	-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08			



#### **Part Number Table**

Description	Part Number		
LED, 3mm, Orange/Green	MCL039AGW		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	CHECKED BY:	DATE:	SIZE DWG NO.	M10001131	ELECTRONIC FILE	REV	
	Suresh	27/05/08			L059AGW_DWG	A	
	APPROVED BY:	DATE:					
	G.Cook	11/06/08	SCALE: NTS U.O.M.: mm (Inch		SHEET: 5	OF 5	