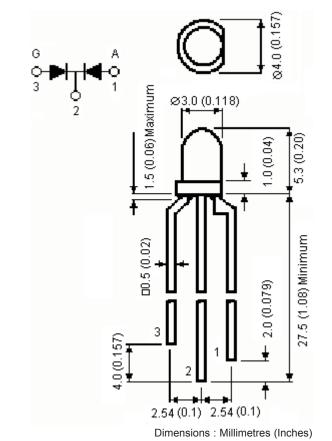
PART NO. MCL039	PART NO.	REVISIONS											
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
	MCL039AGW	-	А	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08			



### Specifications:

: GaAsP on GaP/GaP.
: Orange/green.
: White diffused.
: 635/568nm.
: 76 degrees.
: 8.2/8.0 mcd.

- ange/green. nite diffused. 5/568nm.
- degrees.

2/8.0 mcd.

# Electrical/Optical Characteristics at $T_a = 25^{\circ}C$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	3.8/3.6	8.2/8.0	12/11	mcd	IF = 20mA
Viewing Angle	20 1/2	-	76	-	degrees	IF - 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	-

RoHS Compliant

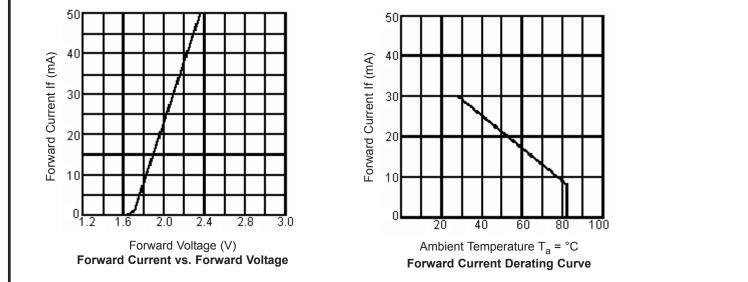
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information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with-	UNLESS OTHERWISE	Veena	28/05/08		3.0mm M	ulti-Color LED La	mp -	Orange / G	iree	n
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.		ELEC	TRONIC FILE		REV
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	PART NO.			REVISIONS								
🐵 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE		
	MCL039AGW	-	А	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08		

# 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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T	data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE FOR REFERENCE	Suresh	28/05/08		M10001156	L039AGW DWG	A
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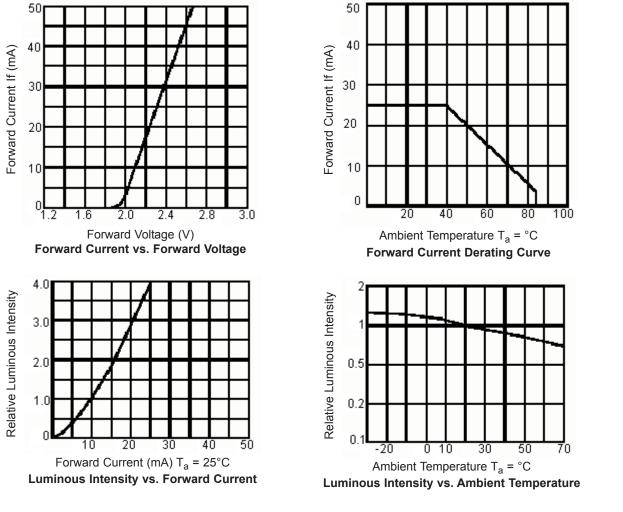
Forward Current (mA) $T_a = 2$ Luminous Intensity vs. Forward	C.0 Belative C.0 0.1	ECN #	REV A	RELEASED	DRAWN Veena	DATE 28/5/08	CHECKD Suresh	DATE 28/5/08	APPRVD G. C	DAT 12/6/
Yellow (GaAsP/GaP $\lambda$ P = 5 4.0 3.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 3.0 4.0 Construction of the second state of the s	B7nm)				Veena	28/5/08	Suresh	28/5/08	G. C	12/6
4.0 3.0 2.0 1.0 10 20 30 10 20 30 40 Forward Current (mA) T <sub>a</sub> = 2 Luminous Intensity vs. Forward	C.0 Belative C.0 0.1									
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4.0 3.0 2.0 1.0 10 20 30 10 20 30 40 Forward Current (mA) T <sub>a</sub> = 2 Luminous Intensity vs. Forward	C.0 Belative C.0 0.1									
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10 20 30 41 Forward Current (mA) T <sub>a</sub> = 2 Luminous Intensity vs. Forward Blue Blue		30								
Luminous Intensity vs. Forward Blue Blue			50							
Blue Blue										
	Current Luminous Intensity v	's. Amdi	entie	mperature						
	Blue Green Green Yellow InGaN GaP GaAsP/G		ange sPíGal	Super Red Bright Red P GaAlAs GaP						
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				$\Lambda \times 1$ N						
400 450	500 550 60 Wavelength λ (nm)	0	<u>`</u>	650 700 750	0					

Relative Intensity vs. Wavelength

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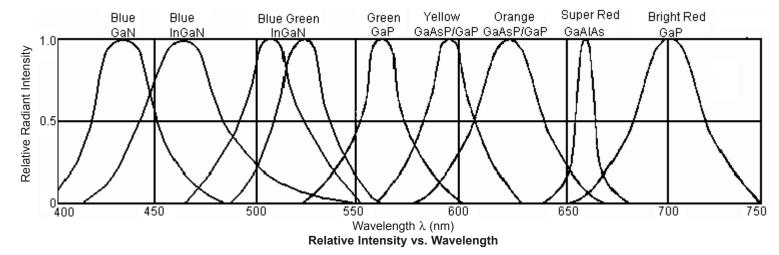
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multicomp	MCL039AGW	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE		
		-	А	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08		
	•	-										

Green (GaP  $\lambda$ P = 568nm)



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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.		ELECT	RONIC FILE		REV			
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	PART NO.	REVISIONS								
multicomp	MCL039AGW	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	Α	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08



#### **Part Number Table**

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

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

	time "caroup j or are idensed to it. No licence is granted for the use of it official to highly a second to the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with out notice and replaces all data sheets previously supplied. The Information supplied has a set previously supplied. The Information included or or omitsed. Liability for lass or damage resulting from any reliance on the Information included or pointed. Liability for lass or damage resulting from any reliance on the Information and the supplication of the Information and t	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:				
ir o		UNLESS OTHERWISE SPECIFIED,	Veena	28/05/08	3.0mm Multi-Color LED Lamp - Orange / Green				
b			CHECKED BY:	DATE:	SIZE DWG NO.	M10001156	ELECTRONIC FILE		REV A
d		DIMENSIONS ARE	Suresh	28/05/08					
u		PURPOSES ONLY.	APPROVED BY:	DATE:					
0			G.Cook	12/06/08	SCALE: NTS	U.O.M.: mm (Inches)		SHEET: 5 OF	