	PART NO.			REVISIONS						
🐵 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCL-S255YGC	-	Α	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08
LED Die 1		Dice Emit Lens Pea Viev	e materia tted colo s color k wave l ving ang	r : Yellow/green. : Water clear. ength : 587/568nm.				Ro Co	HS mpliant	

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1.0

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1.5

**Dimensions : Millimetres** 

+

Soldering terminal

→ 0.9 +

• Unit:mm Tolerance : +/-0.1

0.5

2.2

0.5

LED Die 2

→ 0.9 |↔

0.4

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-+

PCB

+ 0.5

2.0

-++ 1.1

∠\_Resin

\_\_\_\_\_

1.5

Recommended Soldering
Patten for Reflow soldering

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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	5/4.5	10/9	16/14	mcd	IF = 20mA
Viewing Angle	20 1/2	-	140	-	degrees	IF - 2011A
Peak Emission Wavelength	• p	-	587/568	-		-
Dominant Wavelength	• 10	-	590/570	-	nm	-
Spectral Line Half-Width	Δλ	-	35/30	-		-
Forward Voltage	VF	1.7/1.7	2.1/2.1	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	-

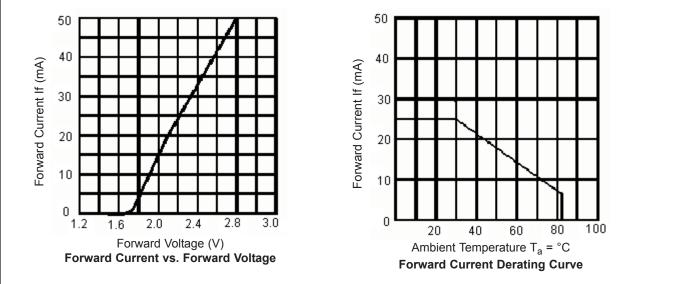
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ECN # REV DESCRIPTION DRAWN DATE CHECKD DATE APPRVD DATE		PART NO.			REVISIONS						
	🐼 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		MCL-S255YGC	-	А	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08

## 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

## Yellow (GaAsP/CaP $\lambda$ P = 587nm)



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multicomp			ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DAT
	MCL-S255YO	GC	-	Α	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6
Yellow (GaAsP/CaP λP =	= 587nm)										
4.0 3.0 2.0 1.0 0 10 20 30 Forward Current (mA) T <sub>a</sub> Luminous Intensity vs. Forward		-20 0 10 Ambient Tempe	rature <sup>-</sup>	T <sub>a</sub> = °C							
Blue Blue Blue Blue InGal 0.5		reen Yellow GaAsP/Ga		ange sP/GaP	Super Red GaAlAs GaP 650 700 75						
	Wave	elength λ (nm) ensity vs. Wavele	ength								
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e and replaces all data sheets previously supplied. The Information to be accurate but the Group assumes no responsibility for its accurate but the Group assumes no	n supplied is UNLESS UTHERWISE	CHECKED BY:		DAT					RONIC F		F

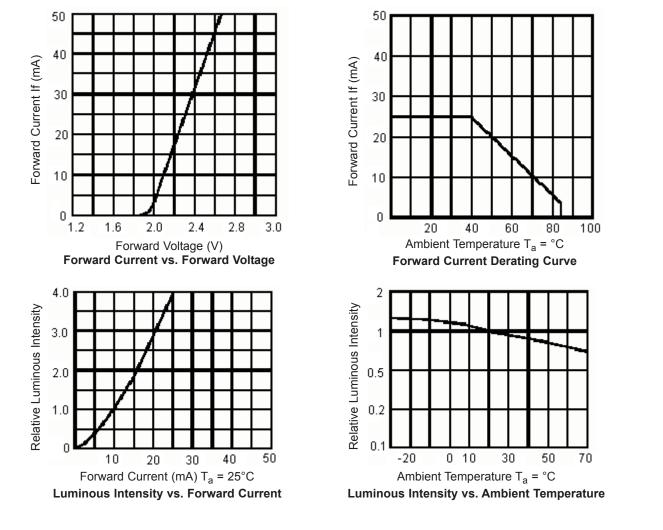
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G.Cook	11/06/08	SCAL	E: NTS	U.O.M.: mm		SHEET: 3	3 0	F 5

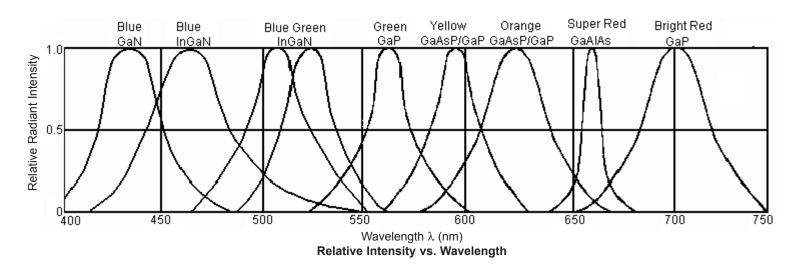
	PART NO.	REVISIONS											
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
	MCL-S255YGC	-	А	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08			

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



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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	27/05/08		M10001125	L-S255YGC DWG	A
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	MCL-S255YGC	-	А	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08



## **Part Number Table**

Description	Part Number
LED, SMD, 1206, Orange	MCL-S250AC

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Veena	27/05/08	1210 Multi Color SMD LED - Yellow / Green			
		CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
		Suresh	27/05/08	Δ	M10001125	L-S255YGC DWG	A
		APPROVED BY:	DATE:				<u> </u>
		G.Cook	11/06/08	SCALE: NTS	U.O.M.: mm	SHEET: 5 OI	F 5