

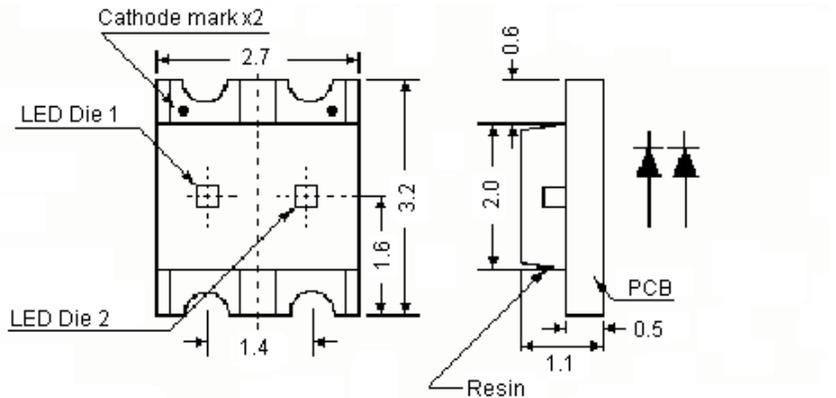


PART NO.

MCL-S255YGC

REVISIONS

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



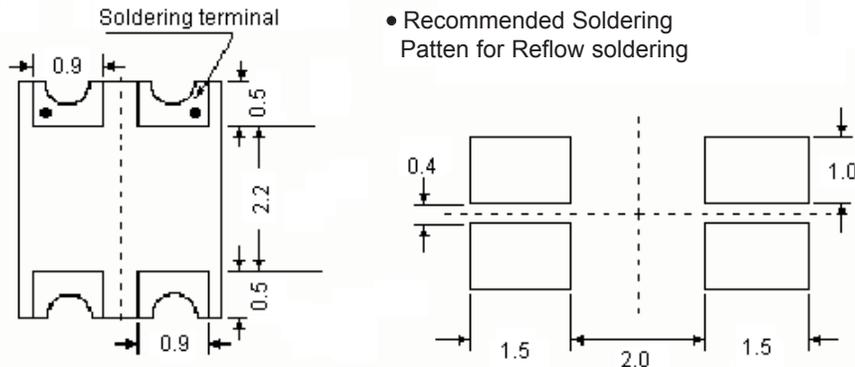
Specifications:

Dice material : GaAsP on GaP/GaP.
 Emitted color : Yellow/green.
 Lens color : Water clear.
 Peak wave length : 587/568nm.
 Viewing angle : 140 degrees.
 Luminous intensity (IV) : 11mcd.



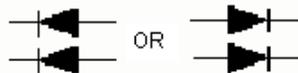
Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	5/4.5	10/9	16/14	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	140	-	degrees	
Peak Emission Wavelength	• p	-	587/568	-	nm	-
Dominant Wavelength	• D	-	590/570	-		-
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	-



• Recommended Soldering Patten for Reflow soldering

• Unit:mm Tolerance : +/-0.1



Dimensions : Millimetres

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DRAWN BY:	DATE:
Veena	27/05/08
CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

1210 Multi Color SMD LED - Yellow / Green

SIZE A	DWG NO. M10001125	ELECTRONIC FILE L-S255YGC_DWG	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 1 OF 5



PART NO.

MCL-S255YGC

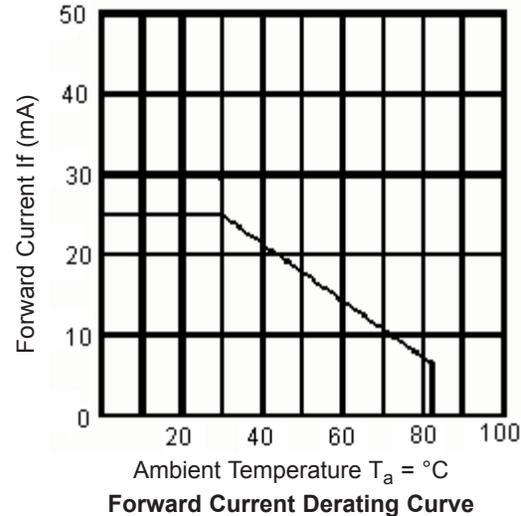
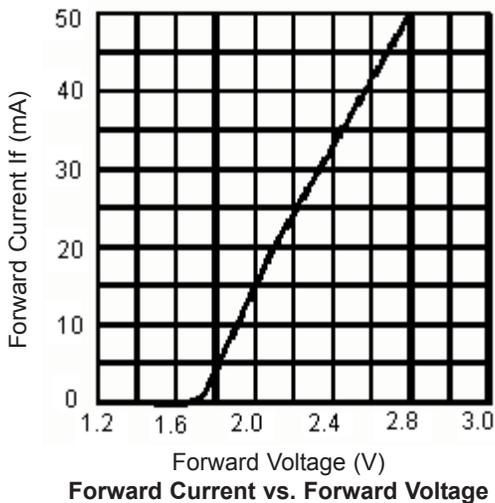
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Absolute Maximum Ratings (T_a = 25°C)

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

Yellow (GaAsP/CaP λ_P = 587nm)



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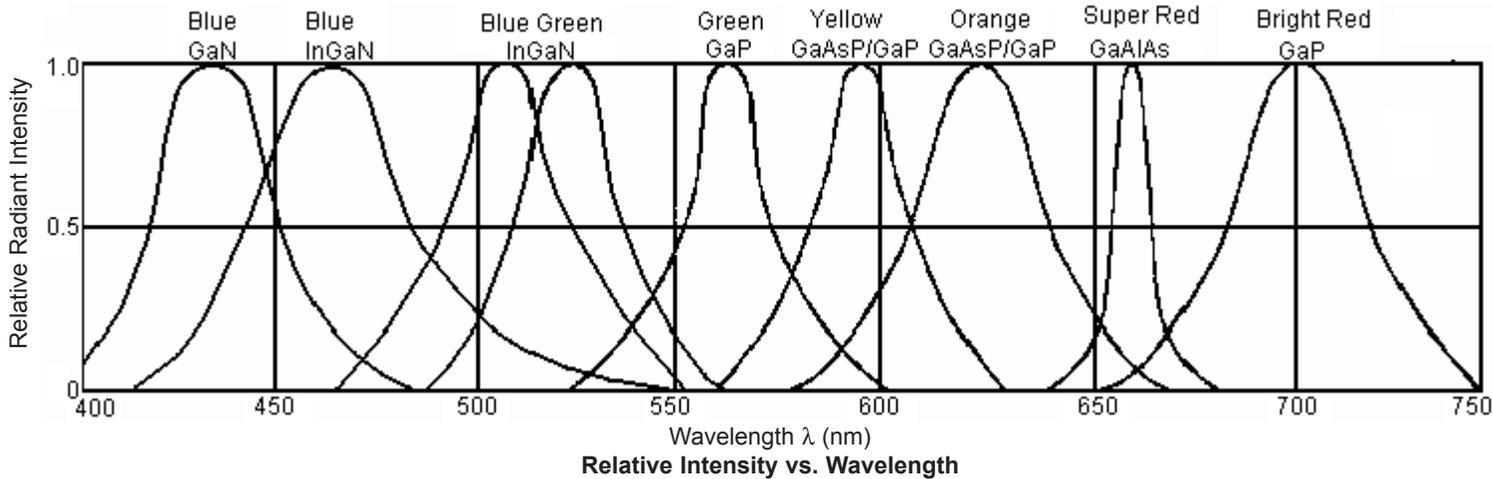
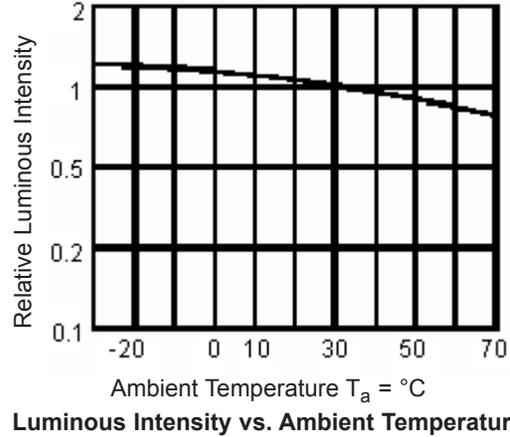
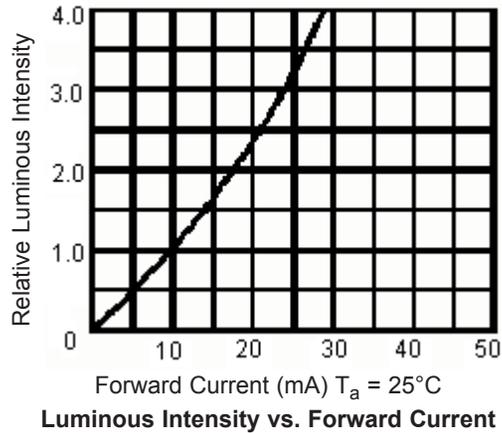
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Yellow (GaAsP/CaP $\lambda_P = 587\text{nm}$)



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



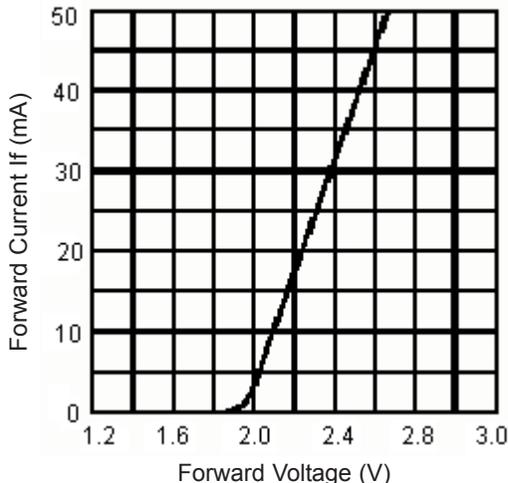
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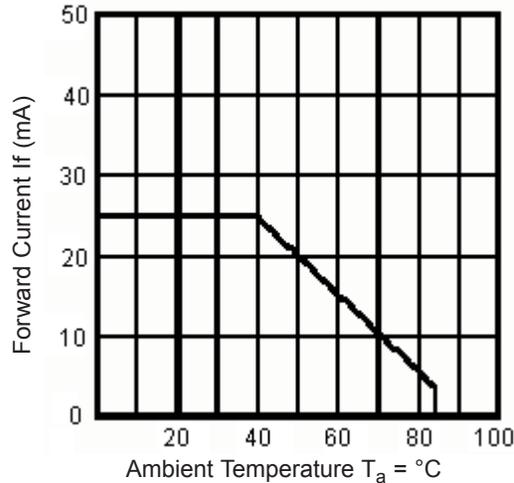
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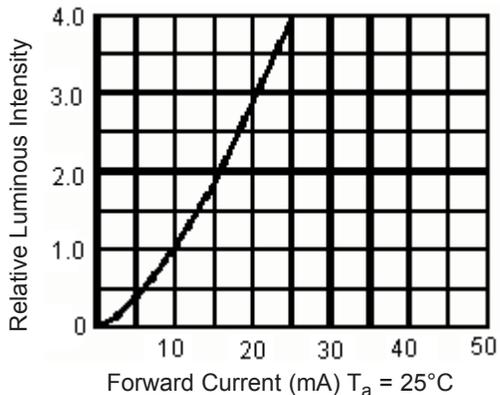
Green (GaP $\lambda_P = 568\text{nm}$)



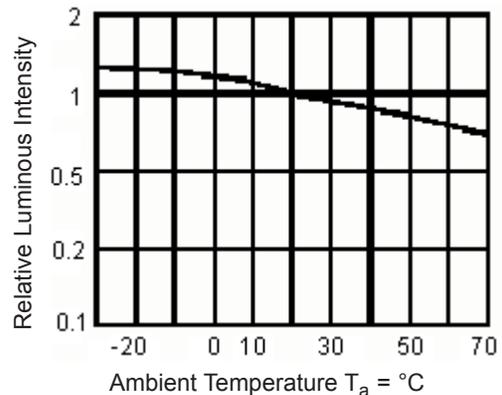
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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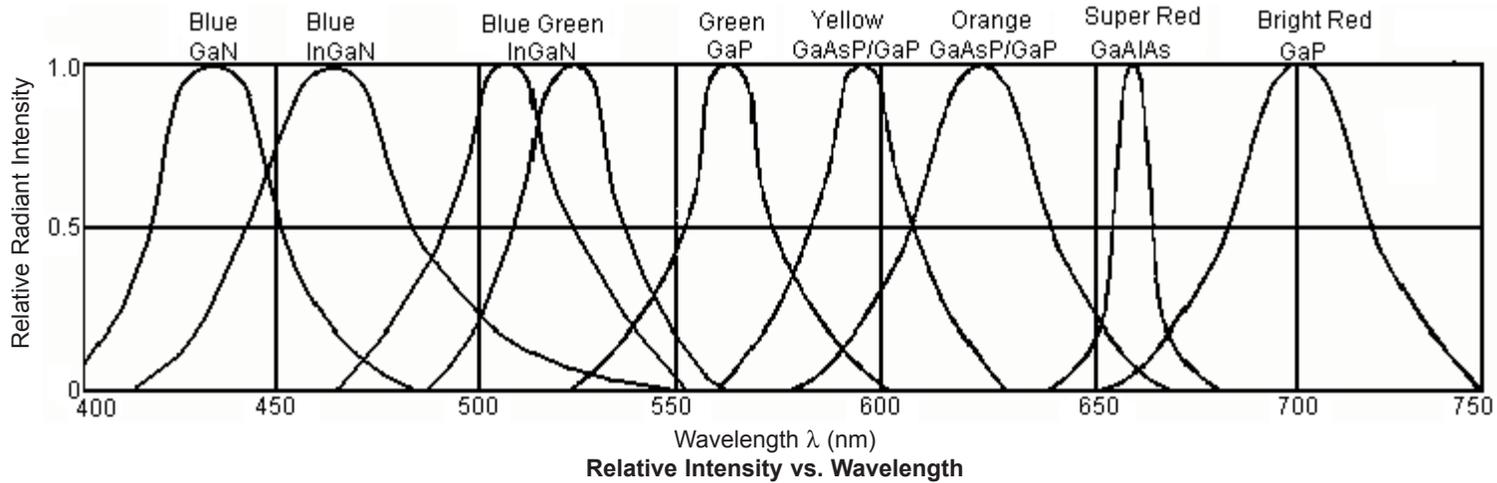


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Part Number Table

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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