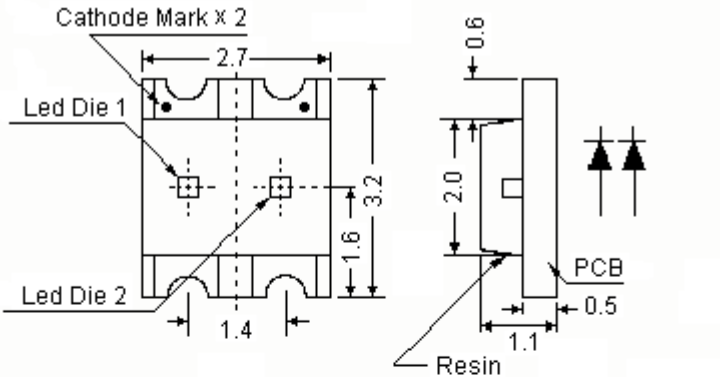


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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	29/5/08	Suresh	29/5/08	G. C	12/6/08



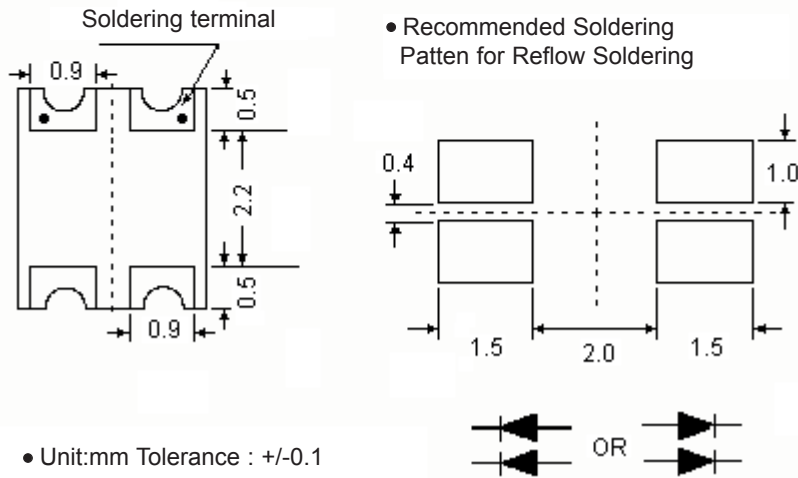
Specifications:

Dice material : GaAsP on GaP/GaP.  
 Emitted color : Orange/green.  
 Epoxy color : Water clear.  
 Peak wave length : 635/568nm.  
 Viewing angle : 140 degrees.  
 Luminous intensity (IV) : 10/9mcd.



Electrical/Optical Characteristics at T<sub>a</sub> = 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	λ <sub>p</sub>	-	635/568	-	nm	-
Dominant Wavelength	λ <sub>d</sub>	-	627/570	-		-
Spectral Line Half-Width	Δλ	-	45/30	-		-
Forward Voltage	V <sub>F</sub>	1.6/1.7	2.0/2.1	2.6/2.6	V	IF = 20mA
Power Dissipation	P <sub>d</sub>	-	-	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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APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:

1210 Multi Color SMD LED - Orange / Green

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001165	L-S255AGC_DWG	A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 5	



PART NO.

MCL-S255AGC

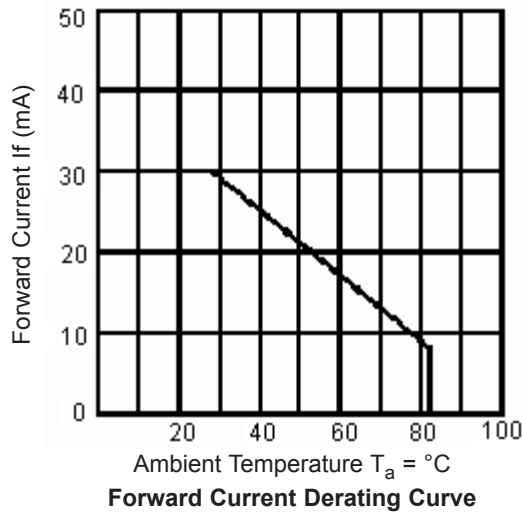
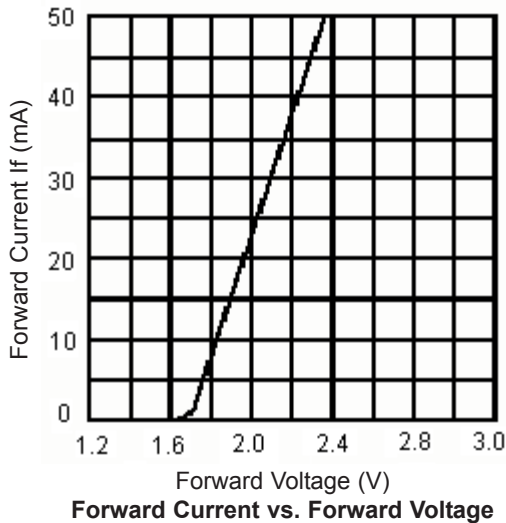
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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

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 λ<sub>P</sub> = 635nm)**



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G.Cook	12/06/08

**DRAWING TITLE:**

**1210 Multi Color SMD LED - Orange / Green**

<b>SIZE</b> A	<b>DWG NO.</b> M10001165	<b>ELECTRONIC FILE</b> L-S255AGC_DWG	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 2 OF 5</b>



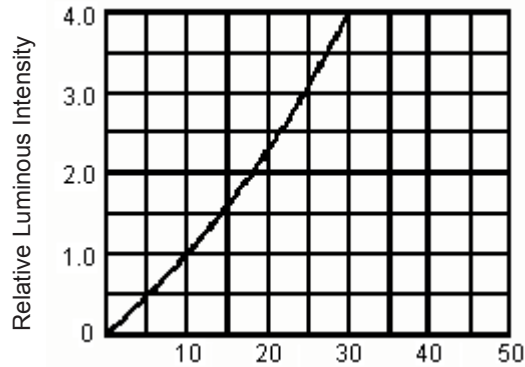
PART NO.

MCL-S255AGC

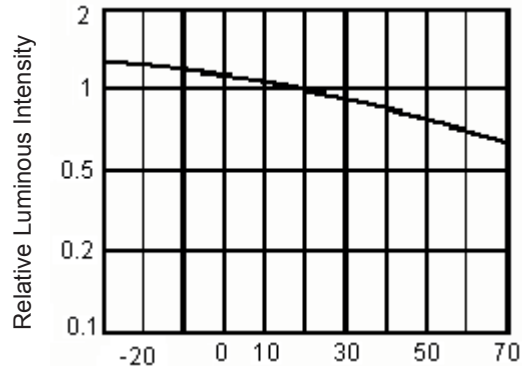
REVISIONS

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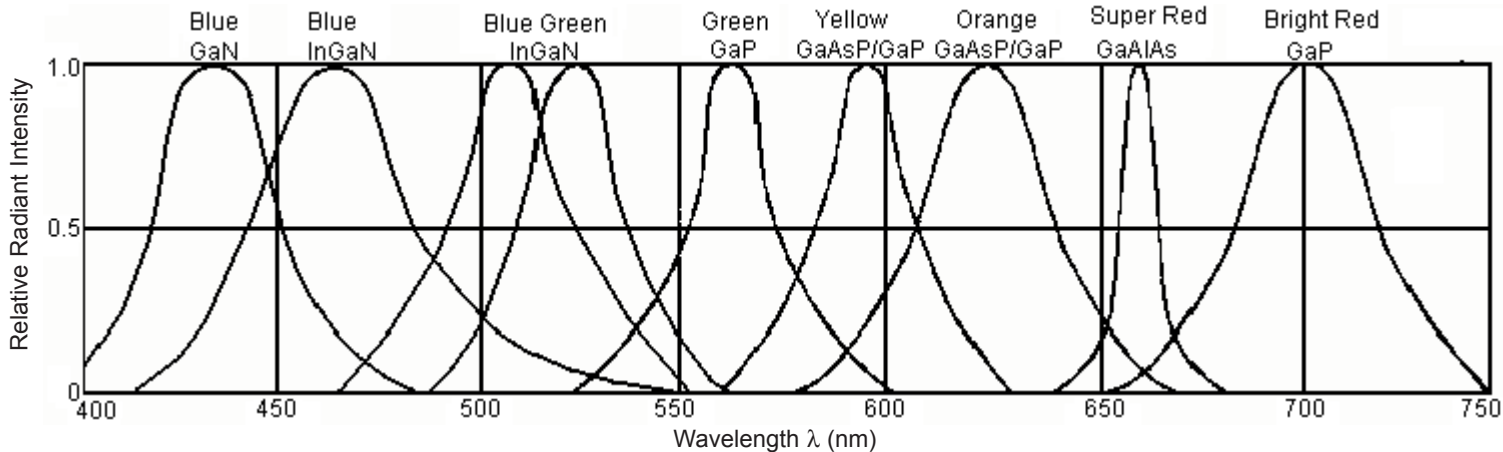
Orange (GaAsP/CaP  $\lambda_P = 635\text{nm}$ )



Forward Current (mA)  $T_a = 25^\circ\text{C}$   
Luminous Intensity vs. Forward Current



Ambient Temperature  $T_a = ^\circ\text{C}$   
Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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G.Cook	12/06/08

DRAWING TITLE:

1210 Multi Color SMD LED - Orange / Green

SIZE <b>A</b>	DWG NO. <b>M10001165</b>	ELECTRONIC FILE L-S255AGC_DWG	REV <b>A</b>
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 5



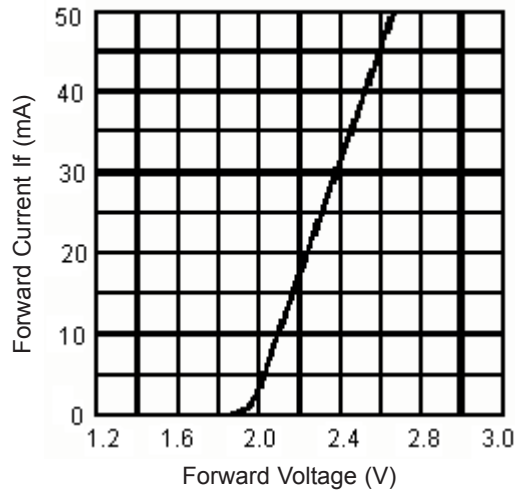
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MCL-S255AGC

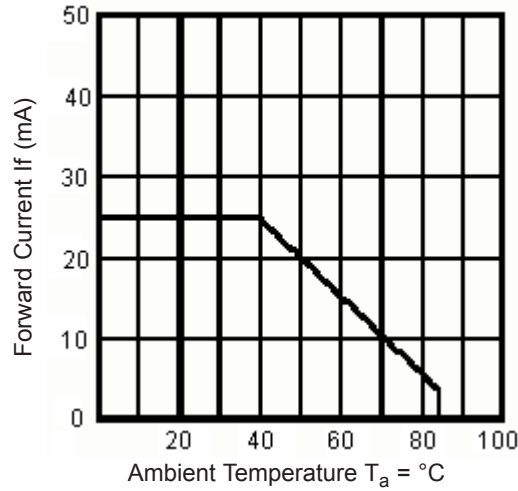
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-	A	RELEASED	Veena	29/5/08	Suresh	29/5/08	G. C	12/6/08

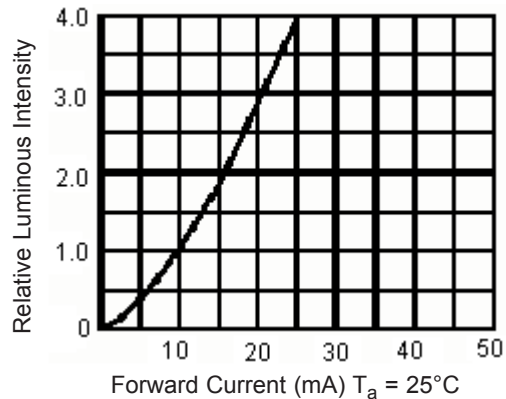
Green (GaP  $\lambda_P = 568\text{nm}$ )



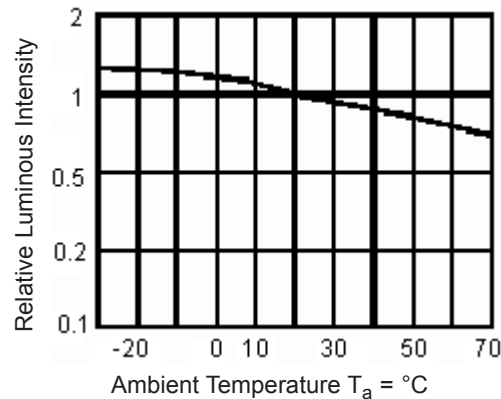
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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DRAWING TITLE:

1210 Multi Color SMD LED - Orange / Green

SIZE <b>A</b>	DWG NO. <b>M10001165</b>	ELECTRONIC FILE L-S255AGC_DWG	REV <b>A</b>
SCALE: NTS		U.O.M.: mm	SHEET: 4 OF 5

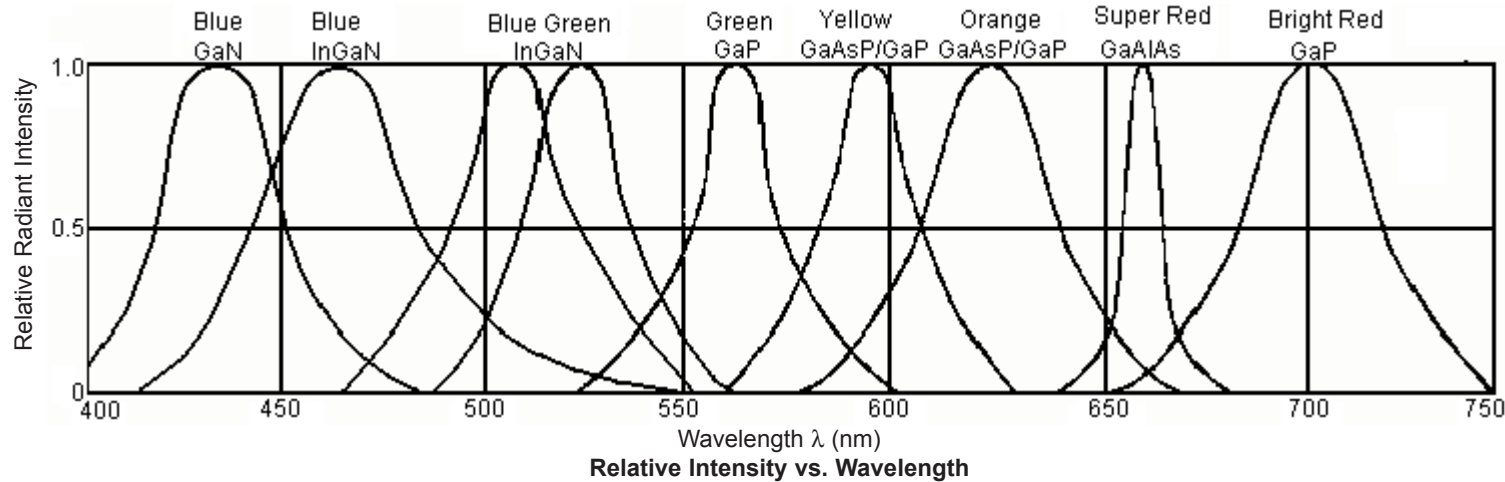


PART NO.

MCL-S255AGC

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Part Number Table

Description	Part Number
LED, SMD, 1210, Orange/Green	MCL-S255AGC

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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**DRAWING TITLE:**

1210 Multi Color SMD LED - Orange / Green

<b>SIZE</b> A	<b>DWG NO.</b> M10001165	<b>ELECTRONIC FILE</b> L-S255AGC_DWG	<b>REV</b> A
<b>SCALE:</b> NTS		<b>U.O.M.:</b> mm	<b>SHEET:</b> 5 OF 5