

3.0X1.5mm SMD CHIP LED LAMP

LA-1206RGB 雾状



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

Features

- _3.0mmx1.5mm SMT LED,1.00mm THICKNESS.
- _LOW POWER CONSUMPTION.
- _WIDE VIEWING ANGLE.
- _IDEAL FOR BACKLIGHT AND INDICATOR.
- _VARIOUS COLORS AND LENS TYPES AVAILABLE.
- _PACKAGE : 3000PCS / REEL.
- _RoHS COMPLIANT.

Description

The Blue source color devices are made with GaN on Sapphire Light Emitting Diode.

The Green source color devices are made with InGaN on SiC Light Emitting Diode.

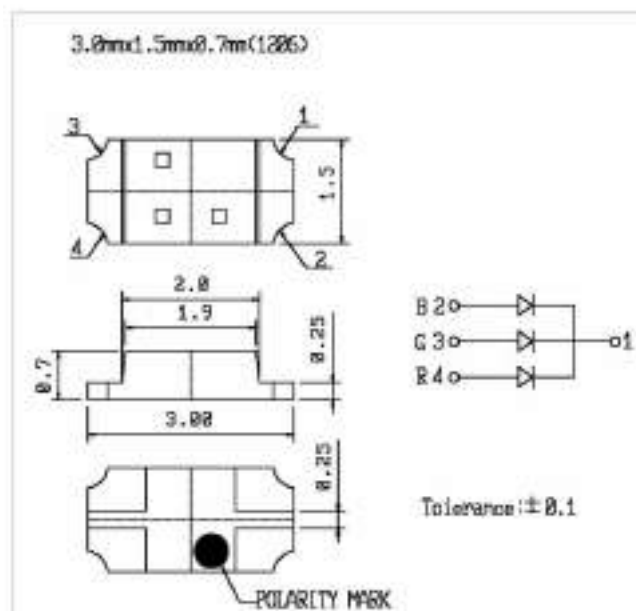
The Hyper Orange source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1 (0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
LA-1206RGB雾状	BLUE (GaN)	WATER CLEAR	100	150	120
	GREEN (InGaN)		350	450	
	RED (InGaAlP)		150	200	

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

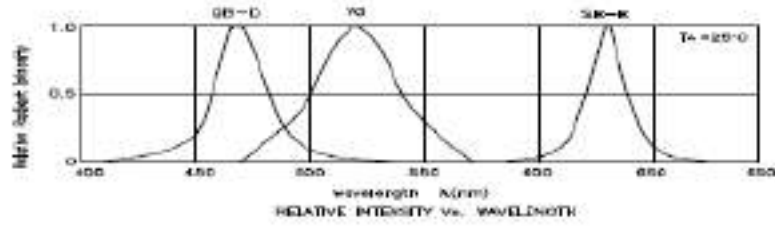
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Blue	465		nm	IF=20mA
		Green	520			
		Red	620			
λ_D	Dominant Wavelength	Blue	470		nm	IF=20mA
		Green	525			
		Red	625			
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Blue	25		nm	IF=20mA
		Green	38			
		Red	20			
C	Capacitance	Blue	100		pF	VF=0V;f=1MHz
		Green	45			
		Red	25			
VF	Forward Voltage	Blue	3.0	3.4	V	IF=20mA
		Green	3.0	3.4		
		Red	1.9	2.2		
IR	Reverse Current	Blue		5	uA	VR = 5V
		Green		5		
		Red		5		

Absolute Maximum Ratings at T_A=25°C

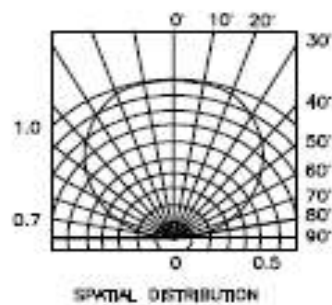
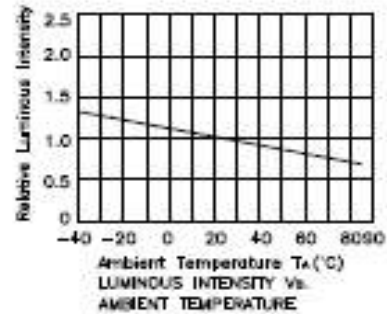
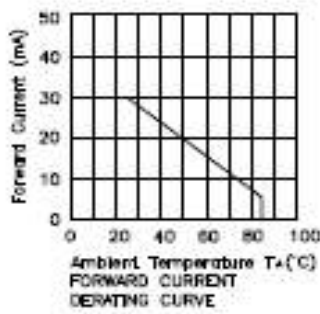
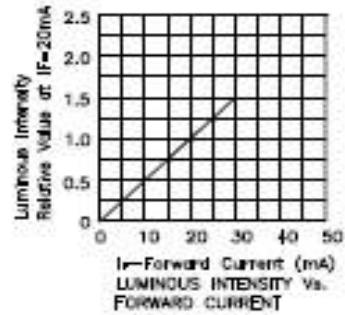
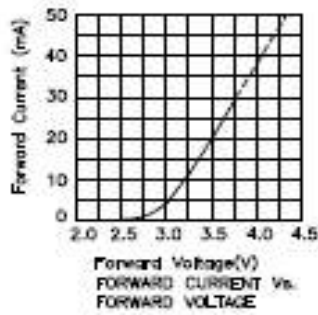
Parameter	Blue	Green	Red	Units
Power dissipation	105	105	105	mW
DC Forward Current	30	30	30	mA
Peak Forward Current [1]	105	105	195	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C			

Note:

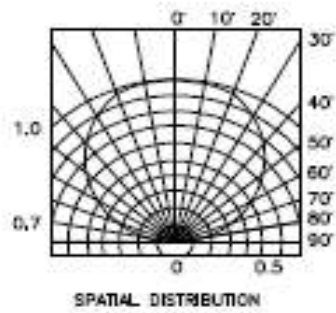
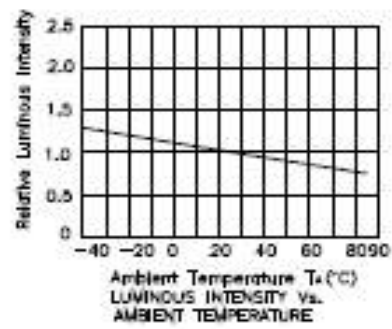
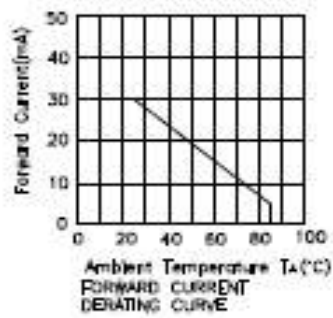
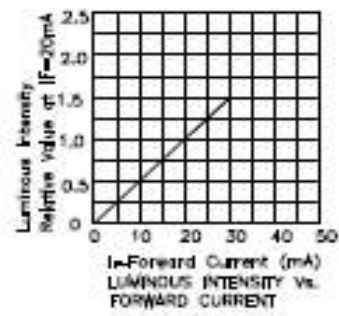
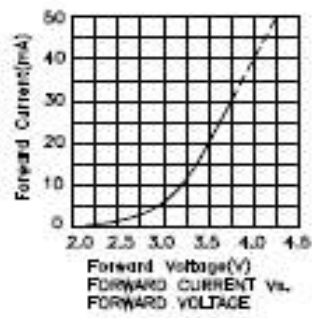
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



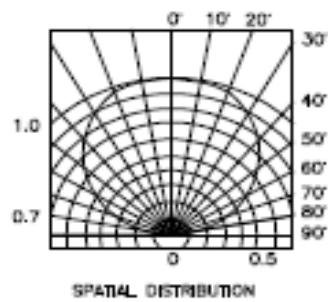
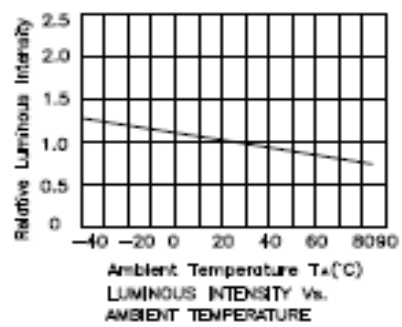
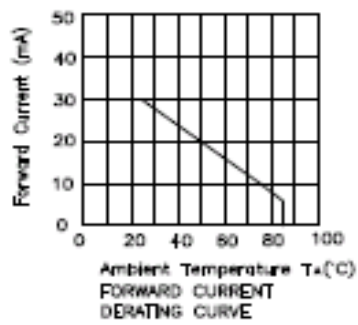
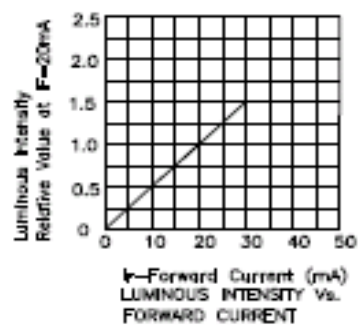
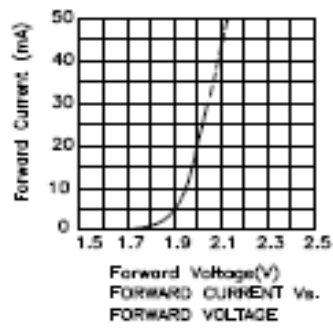
LA-1206RGB雾状
Blue



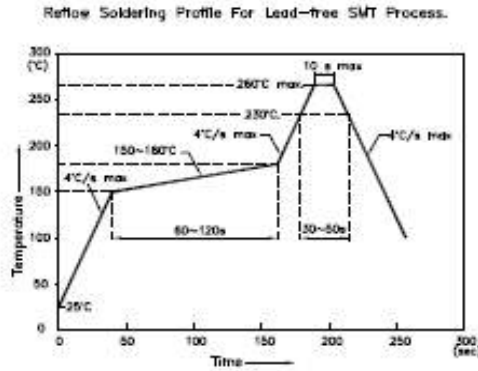
Green



Red

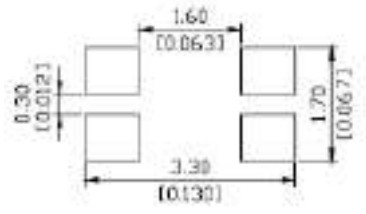


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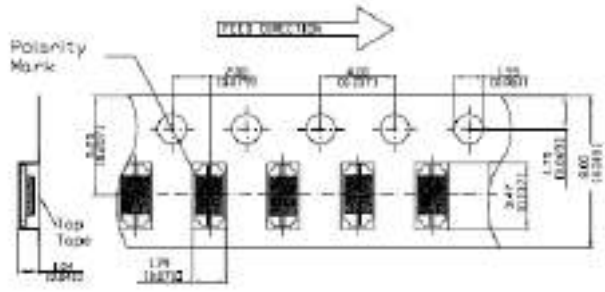


- NOTES:
1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
 2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
 3. Number of reflow process shall be 2 times or less.

**Recommended Soldering Pattern
(Units : mm)**



**Tape Specifications
(Units : mm)**



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.