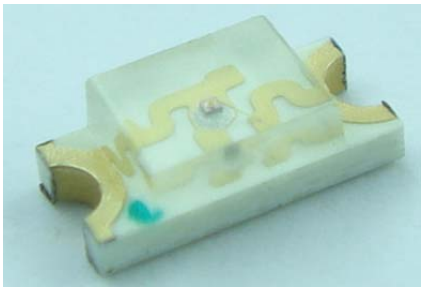
HUIYUAN OPTO-ELECTRONIC CO.,LTD

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL：1206G6C-KPC-S

Features



- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Mono-color type
- RoHs Compliant

Descriptions

- The 1206 SMD LED is much smaller than lead frame type components thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained
- Besides, lightweight makes them ideal for miniature applications.etc

Usage Notes:

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

- Automotive: Backlighting in dashboard and switch
- Telecommunication: Indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- General use

Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
1206G6C-KPC-S	AlGaInP	Yellowish Green	Water clear

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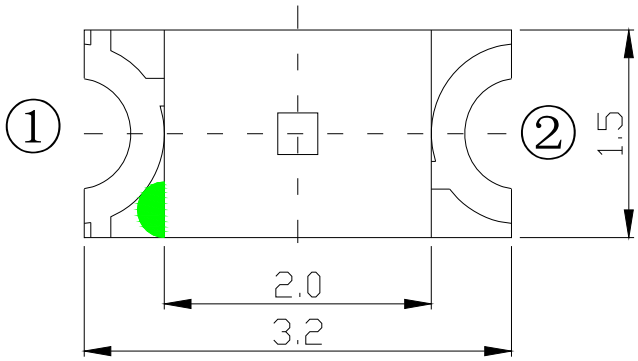
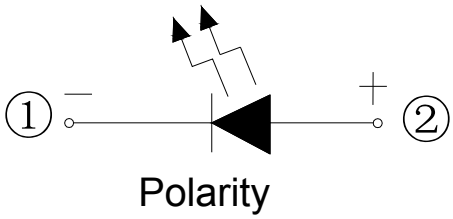
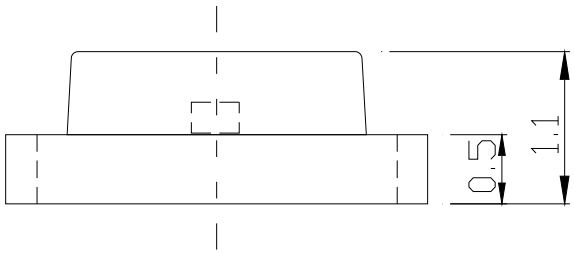
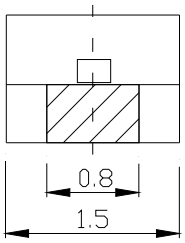
Package Dimensions

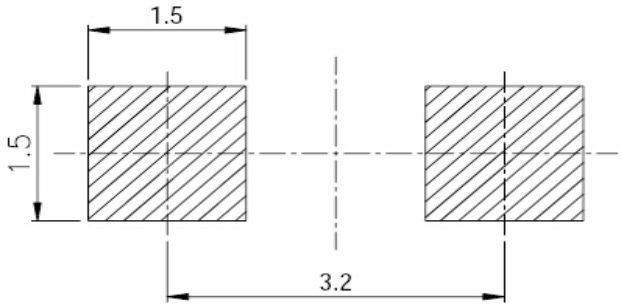








For reflow soldering (propose)



Notes:

˙Other dimensions are in millimeters, tolerance is 0.25mm except being specified.

˙Protruded resin under flange is 1.5mm Max LED.

˙Bare copper alloy is exposed at tie-bar portion after cutting.

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Electro-Optical Characteristics (T_a=25□)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	30	---	50	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	120	---	Deg	(Note 2)
Peak Emission Wavelength	λp	565	---	575	nm	IF=20mA
Spectral Line Half-Width	△λ	15	20	25	nm	IF=20mA
Forward Voltage	V_F	1.9	---	2.4	V	IF=20mA
Reverse Current	I_R	---	---	10	μA	VR=5V

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

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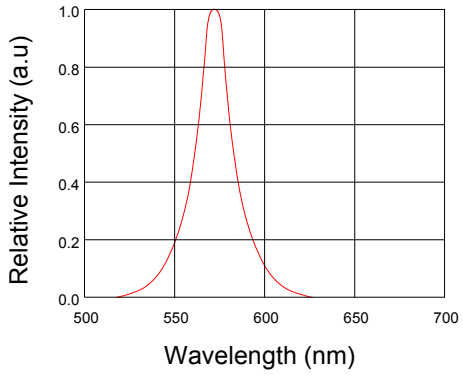
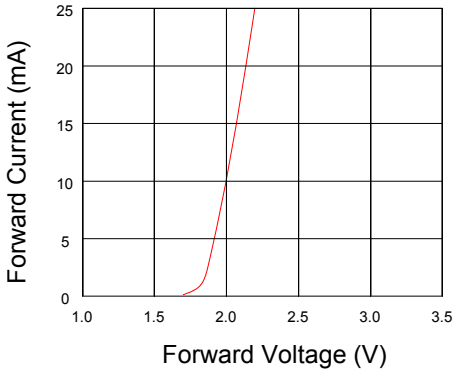
Typical Electro-Optical Characteristics Curves

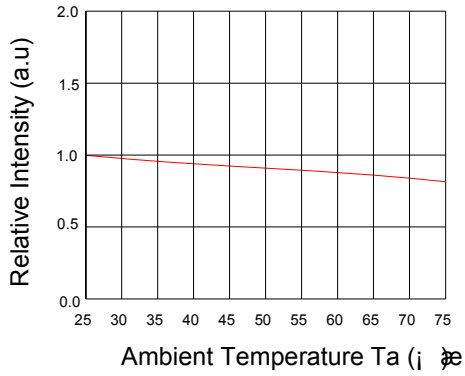
Relative Intensity VS. Wavelength



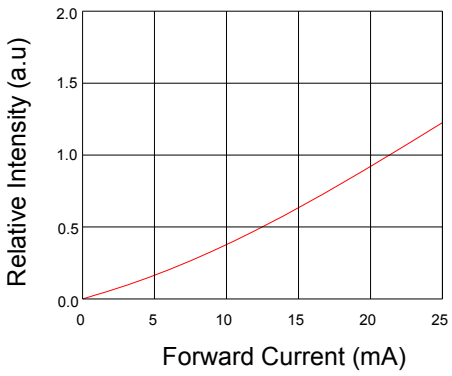
Forward Current VS.Forward Voltage



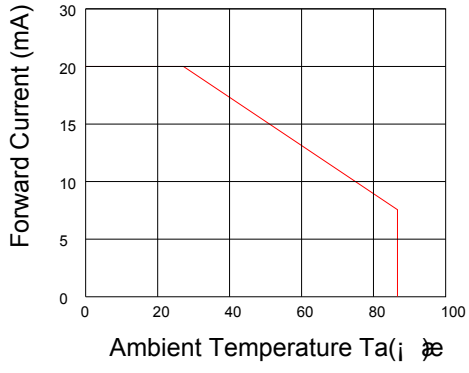
Relative Intensity VS. Ambient Temp



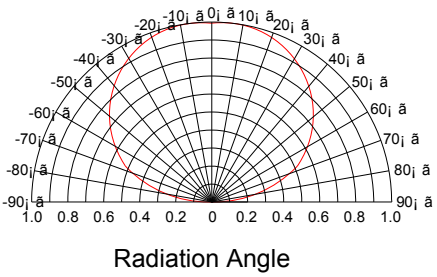
Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics



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Notes

1. Above specification may be changed without notice. HYLED will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. HYLED assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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