承　　認　　書

SPECIFICATION FOR APPROVAL

客　　戶：
CUSTOMER

品　　名：　1206蓝光贴片LED
DESCRIPTION

型　　號：　HQ-1206UBC
MODEL

日　　期：　14.07.01
DATE

承 制 方
MANUFACTURER：

使 用 方
USER:

制 表 DRAFTING	審 核 CHECK	核 準 APPROVE
李丽		

核 準 APPROVE	簽章

1206 Package Chip LED

BLUE

PRELIMINARY SPEC

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

_3.2mmX1.6mm SMT LED, 0.90mm THICKNESS.

_LOW POWER CONSUMPTION.

_WIDE VIEWING ANGLE.

_IDEAL FOR BACKLIGHT AND INDICATOR.

_VARIOUS COLORS AND LENS TYPES AVAILABLE.

_PACKAGE: 3000PCS / REEL.

_RoHS COMPLIANT.

Description

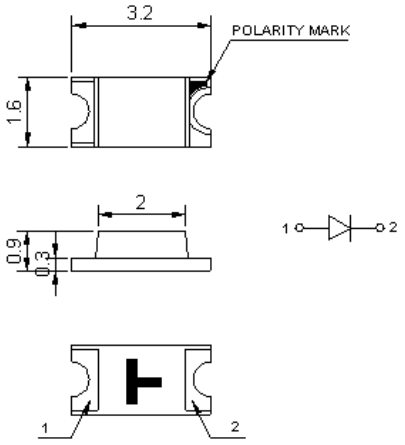
The Blue source color devices are made with GaN on Sapphire Light Emitting Diode.

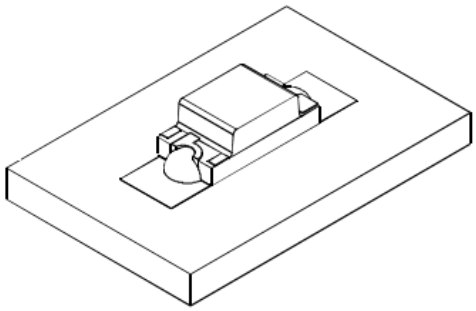
Static electricity and surge damage the LEDS.

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.

Part No.	Dice	Lens Type	Iv (mcd) @ 5mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
HQ-1206UBC	BLUE (GaN)	WATER CLEAR	20	50	120

Note:

1. θ1/2 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
λpeak	Peak Wavelength	Blue	460	470	nm	IF=5mA
λD	Dominant Wavelength	Blue			nm	IF=5mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=5mA
C	Capacitance	Blue			pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue	2.8	3.2	V	IF=5mA
IR	Reverse Curren	Blue		2	uA	VR = 7V

Remarks:

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

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

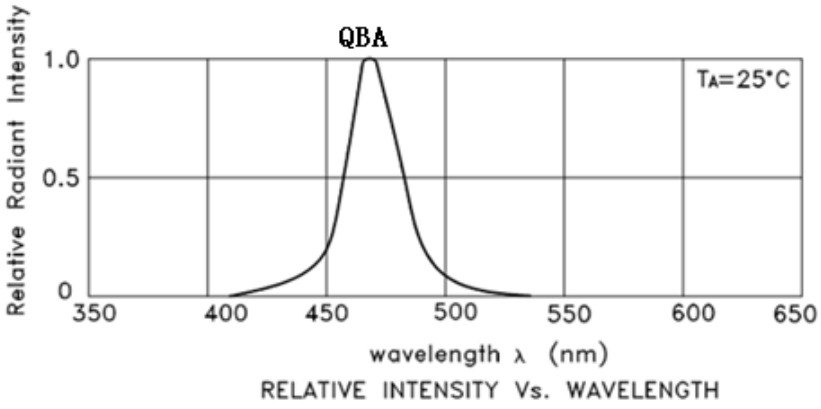
Note: Accuracy may depend on the sorting parameters

Absolute Maximum Ratings at T_A=25°C

Parameter	Blue	Units
Power dissipation	135	mW
DC Forward Current	30	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

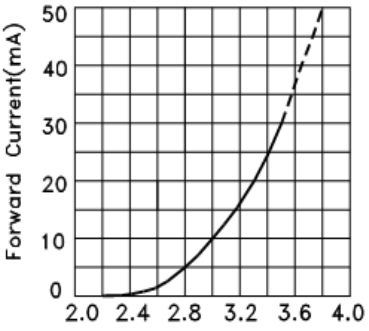
Note:

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

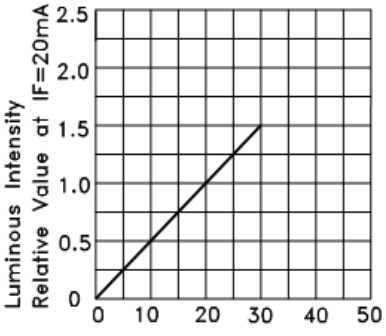


RELATIVE INTENSITY Vs. WAVELENGTH

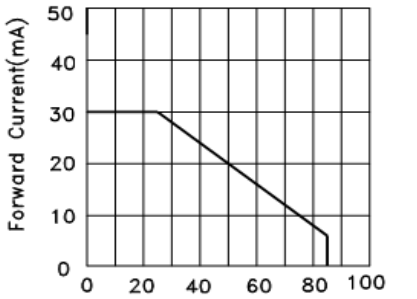
Blue *E6C1206QBAC1UDA*



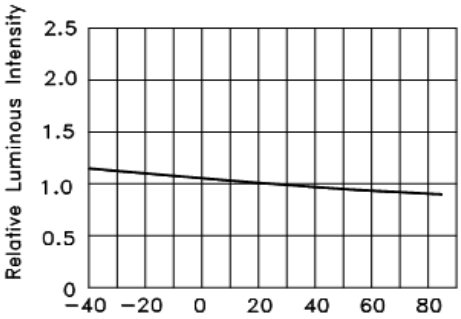
FORWARD CURRENT Vs.
FORWARD VOLTAGE



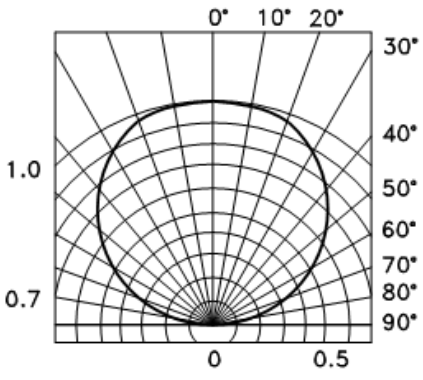
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



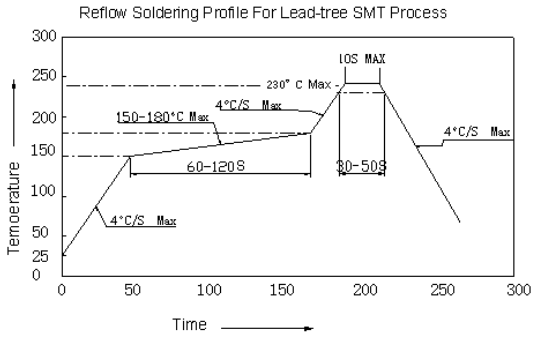
FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



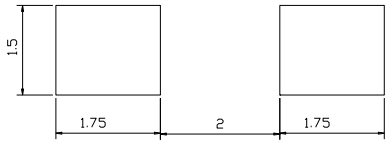
SPATIAL DISTRIBUTION



NOTES:
1. We recommend the reflow temperature 245° c(±5) The maximum soldering temperature shold be limited to 260° c
2. Don't cause stess too the epoxy resin while it is exposed to high temperature.
3. Numbe of reflow process shall be 2 time or less.

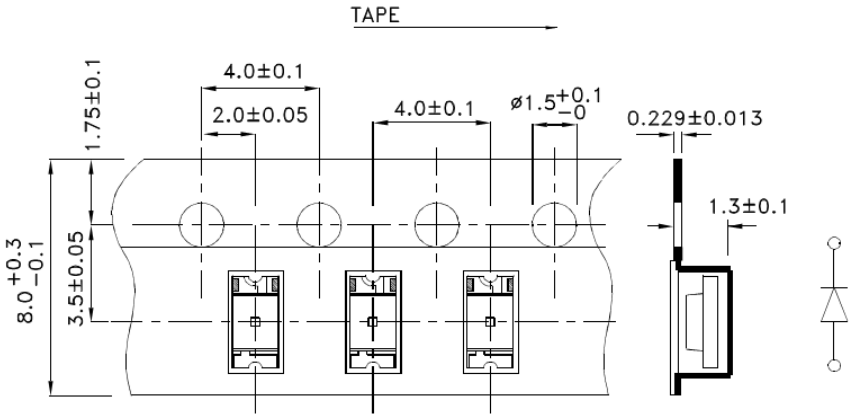
Recommended Soldering Pattern

(Units : mm)



Tape Specifications

(Units : mm)



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