勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

承 认 书

Specification for approval

客户名称:

CUSTOMER NAME: _____

经办者: 职称:

DIRECTOR: _____ TITLE: _____

客户料号:

CUSTOMER PART NO.: _____

品名: 版本:

PART NUMBER: LS-3216-02UBC REVISION: 新

发件日期: 回文日期:

ISSUE DATE: **2012/12/26** RETURN DATE: / /

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

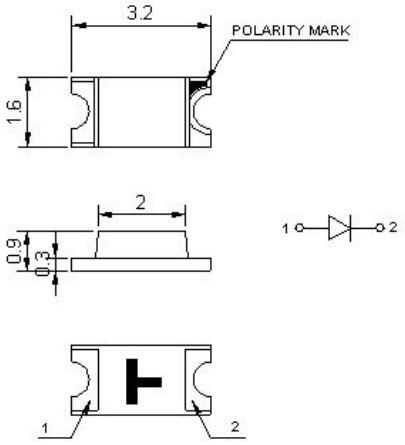
The Blue source color devices are made with GaN on Sapphire Light Emitting Diode.

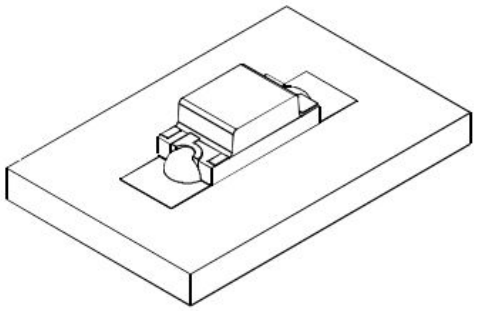
Static electricity and surge damage the LEDS.

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.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 5 mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
LS-3216-02UBC	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	462	470	nm	IF=5 mA
λD	Dominant Wavelength	Blue			nm	IF=5 mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=5 mA
C	Capacitance	Blue			pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue	2.8	3.1	V	IF=5 mA
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

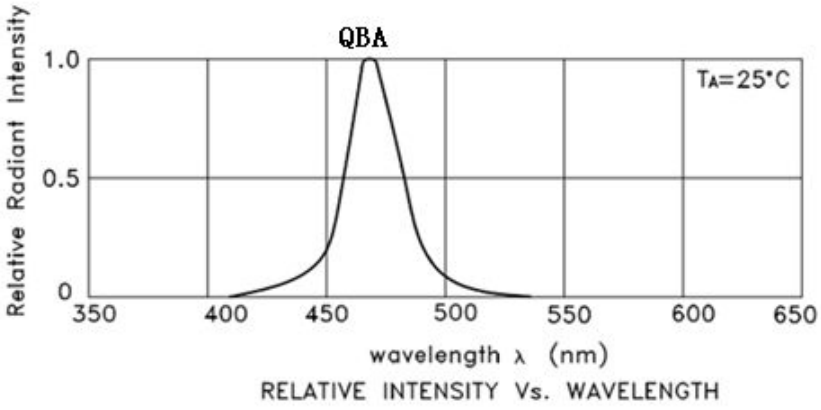
Note: Accuracy may depend on the sorting parameters

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	

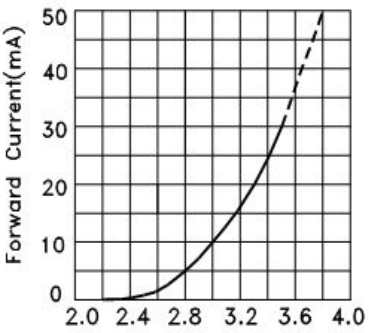
Note:

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

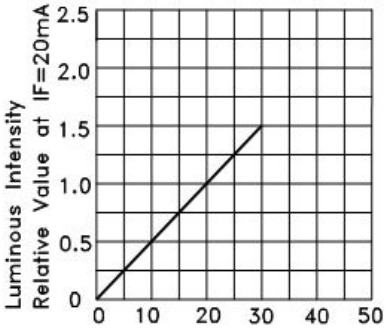


RELATIVE INTENSITY Vs. WAVELENGTH

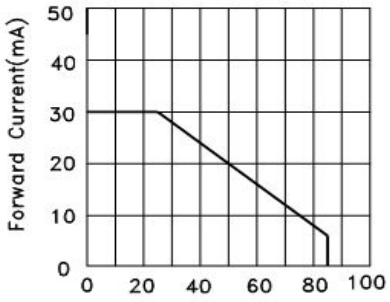
Blue



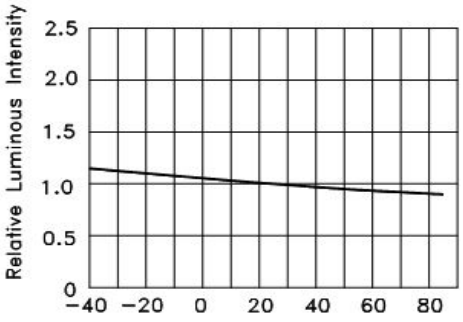
FORWARD CURRENT Vs.
FORWARD VOLTAGE



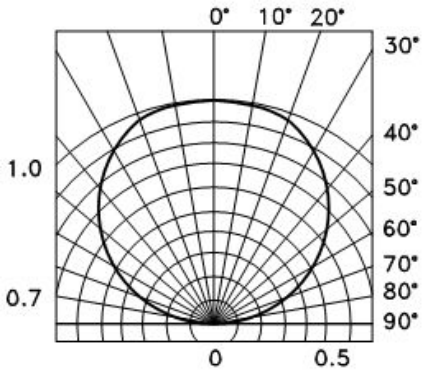
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

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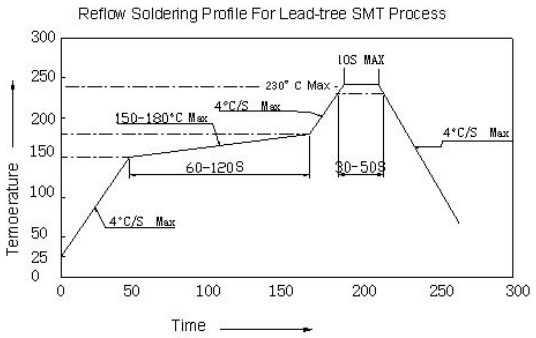
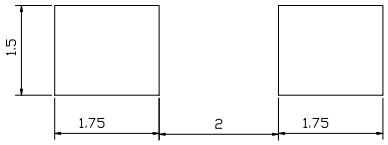
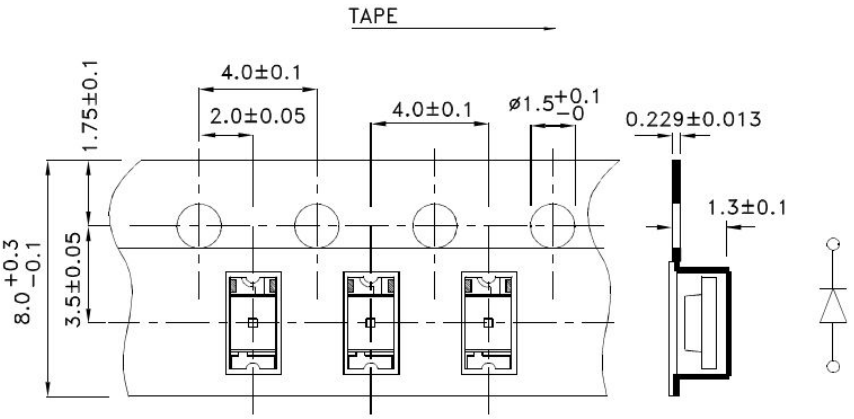


NOTES:
1. We recommend the reflow temperature 245° c(±5) The maximum soldering temperature shold be limited to 260° c
2. Don't cause stess too the epoxy resin while it is exposed to high temperature.
3. Numbe of reflow process shall be 2 time or less.

Recommended Soldering Pattern
(Units : mm)



Tape Specifications
(Units : mm)



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