Light Emitting Diode

PRODUCT SPECIFICATION

C/N: 2719

3mm ROUND BLUE LED LAMP

Approved By	Checked By	Prepared By

3mm ROUND BLUE LED LAMP

Features

- ※ High intensity
- ※ Reliable and rugged
- X Low current requirement

Description

The BLUE Lamps are made With InGaN/Sapphire chip and Water clear epoxy resin.

Dort NO	LED chip		Less Cales	
Part NO.	Material	Emitting Color	Lens Color	
2719	Ingan /Sapphire	BLUE	Water clear	

Notes:

1. All dimensions in mm tolerance ± 0.2 mm unless otherwise noted.

- 2. An epoxy meniscus may extend about 1.5mm down the lead
- 3. Burr around bottom of epoxy may be 0.5mm max.



unit:mm

2.54±0.1 -

0-

ANODE

CATHODE

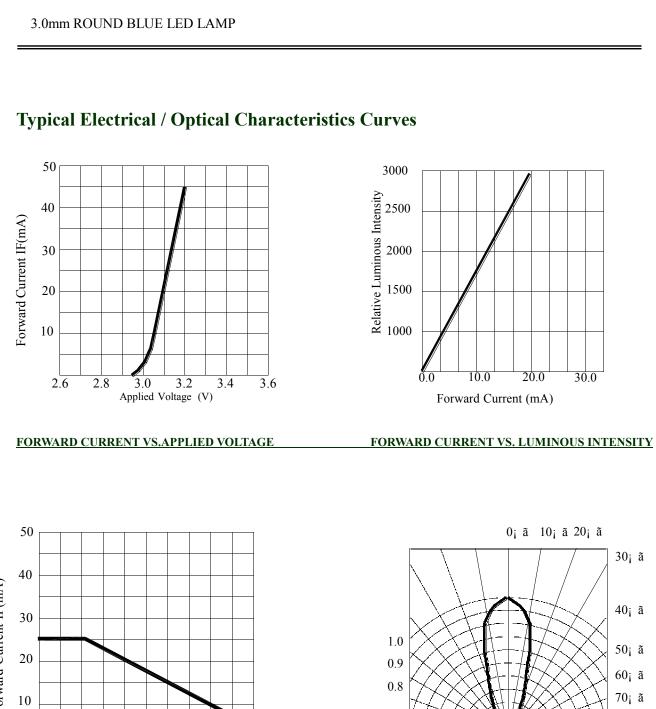
0.5 SQUARE X 2 -

3.0mm ROUND BLUE LED LAMP

Absolute Maximum Ratings(Ta=25°C)			
Parameter	Symbol	Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	30	mA
Peak Forward Current(Pulse width ≤ 0.1 msec	IFP	100	mA
Reverse Voltage	VR	5.0	V
Electro-Static-Discharge	ESD	1000	V
Operation Temperature Range	Topr	-25to+85	°C
Storage Temperature Range	Tstg	-40to+100	°C
Lead Soldering Temperature(3.0mm from body) for 5 seconds		260	°C

Typical Electrical and Optical Characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	Iv	If=20mA	1500		2000	mcd
Forward Voltage	Vf	If=20mA	3.0		3.4	v
Wave length	WLD	If=20mA	465		470	nm
Reverse Current	Ir	Vr=5v			10	uA
Viewing Angle	2 0 1/	If=20mA		20		deg



Forward Current IF(mA) 0 20 40 60 100 80 Ambient Temperature Ta (¡ C)

AMBIENT TEMPERA TURE VS.FORWARD CURRENT

RADIATION DIAGRAM

0.1

0.2

0.4

0.6

0.3

0.5

Please read the following notes before using the datasheets:

0.7

30; ã

40; ã

50; ã

60; ã

70; ã

80; ã 90; ã

Light Emitting Diada

	Light Emitting Diode
-、	If you need pin to be bent because of design:
	1. The lead frame can only be bent or cut when it is 3mm or above away from the colloid.
	2. The molding of material if needed must be finished before soldering, while molding the
	PIN is not allowed to be the fulcrum and must be finished by professional with fixture;
	3. Lead frame molding must guarantee that the space between lead is same as Circuitry
	Board
	4. High voltage static electricity could be produced while molding the Pin because of
	vibration friction of machine, so the machine must be reliably grounding (By way of
	blowing ion fan to eliminate static electricity)
二、	Soldering Condition :
	1. Do not conduct the electricity while soldering the LED
	2. Do not forces while the lead are in the heating condition.
	3. Max. soldering condition:
	Manual soldering : Wave soldering
	Max. Power of iron: 30 W Highest Temperature: 300 °C Highest Din soldering temperature 260 °C
	inglest Dip soldering temperature 200 °C
	Longest Soldering time: 3 seconds Longest Dip soldering time: 5 seconds
	Soldering position: Dip soldering position:
_	3mm above from the colloid base 3mm above from the colloid base.
-`	Anti-static notice :
	1. All the LED instrument must be grounding
	2. All the people, who are possible to touch the LED must wear anti-static wrists and gloves.
	3. Any LED damaged by static will appear some bad characters, such as , leakage current
四、	increase, Static forward voltage decrease. Over current protection :
цv	1, Add protective resistor in series to make it work stable.
	2. Resistor value formula: R= (VCC-VF) /IF (VCC is power supply voltage, VF is LED
	drive voltage, IF is forward current.)
五、	Electrical performance test and application :
	1, While testing VF, brightness and wavelength, the current must be set with 20mA; test VR,
	IR must be set with 10uA; Test IR, VR must be set with 5V.
	2. Whiling testing and using LED, LED must be provided with the same current and tested
	by constant current source, and then we can make sure the brightness and consistency of
	other characteristics
	3. LED used under the environment temperature between -30 $^{\circ}$ C ~ + 60 $^{\circ}$ C
	4. When the products are well sorted, please do not use it to the same products with different

classes or bag Numbers (Marked in the label), so as to avoid the color and brightness difference. If it is necessary to use with mix bags, please use strictly according to the sequence of bag number. (Not recommended to use like this)