Light Emitting Diode

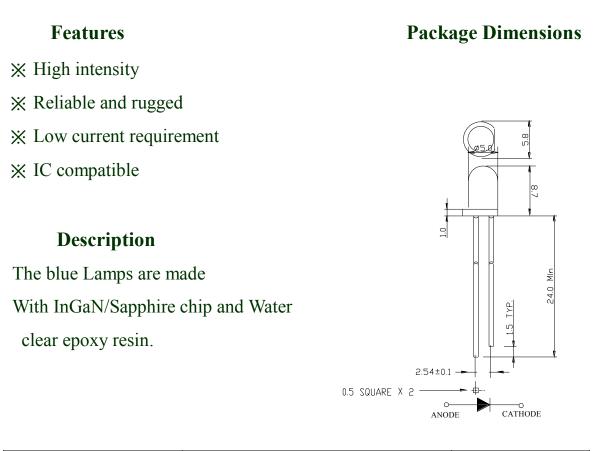
PRODUCT SPECIFICATION

C/N: 2708

5mm ROUND BLUE LED LAMP

Approved By	Checked By	Prepared By

5mm ROUND BLUE LED LAMP



Devid NO	LED chip			
Part NO.	Material	Emitting Color	Lens Color	
2708	InGaN/Sapphire	Blue	Water clear	

Notes:

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

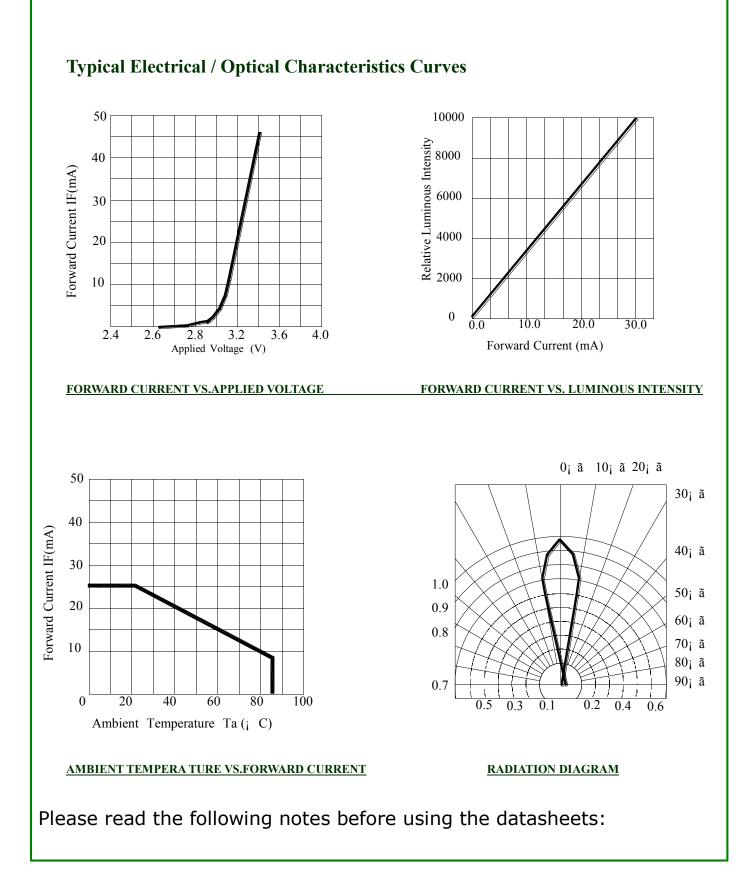
- 2. An epoxy meniscus may extend about 1.5mm down the lead
- 3. Burr around bottom of epoxy may be 0.5mm max.

5.0mm 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 seconds260			°C	

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

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	Iv	If=20mA	4000		8000	mcd
Forward Voltage	Vf	If=20mA	2.8	3.2	3.6	v
Wave length	WLD	If=20mA	464		473	nm
Reverse Current	Ir	Vr=5v			10	uA
Viewing Angle	2 0 1/	If=20mA		20		deg



Date:2010/12/5

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		Light Limiting Dioue
-、	If yo	u 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
	<u> </u>	blowing ion fan to eliminate static electricity)
=,		ering Condition :
	1,	Do not conduct the electricity while soldering the LED
	2、	Do not forces while the lead are in the heating condition.
	3、 Mar	Max. soldering condition:
		ual soldering :Wave soldering. Power of iron: 30 WHighest Warm up temperature : 120°C
		. Power of iron: 30 W est Temperature: 300 °C Highest Dip soldering temperature 260 °C
	-	gest Soldering time: 3 seconds Longest Dip soldering time: 5 seconds
		ering position: Dip soldering position:
		a above from the colloid base 3mm above from the colloid base.
三、		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
		increase, Static forward voltage decrease.
四、	Over	current protection :
	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、	Elect	rical 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
	2	other characteristics $20 ^{\circ}\text{C}$ $100 ^{\circ}\text{C}$
	3.	LED used under the environment temperature between -30 °C \sim + 60 °C When the products are well sorted, please do not use it to the same products with different
	4,	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)
1		