Light Emitting Diode

PRODUCT SPECIFICATION

C/N: 2715

5mm ROUND RED LED LAMP

Approved By	Checked By	Prepared By

5mm ROUND RED LED LAMP

Package Dimensions Features X High intensity unit:mm ※ Reliable and rugged X Low current requirement **※** IC compatible Ø5.0 Description 5,30. The RED Lamps are made 2 With AlGalnP/Sapphire chip and Water clear epoxy resin. 2.54±0.1 0.5 SQUARE X 2 o CATHODE ANODE

	LED chip			
Part NO.	Material	Emitting Color	Lens Color	
2715	AIGaINP /Sapphire	RED	Water clear	

Notes:

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

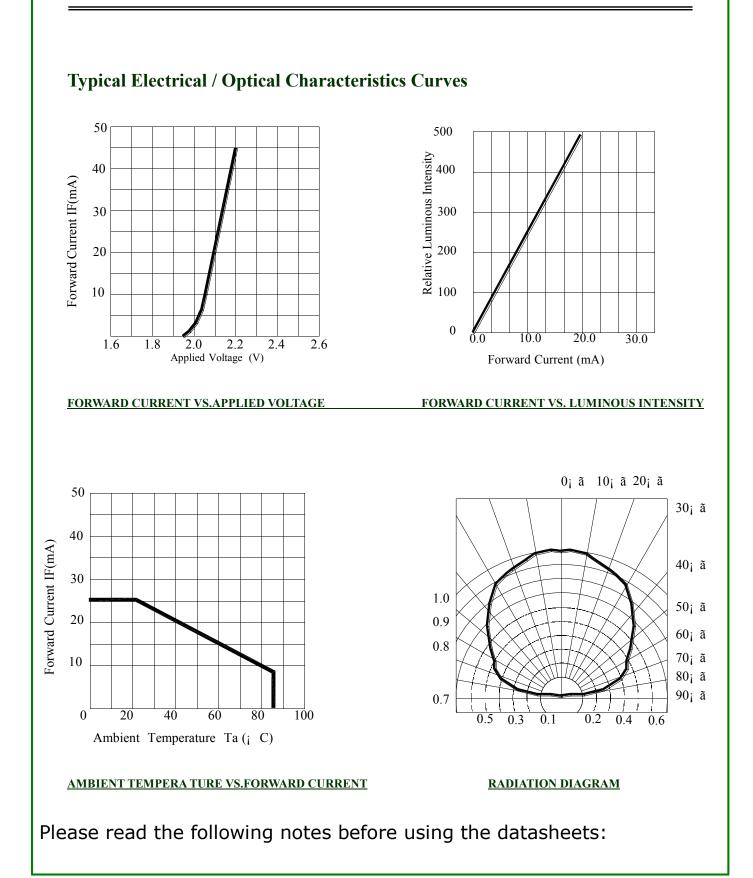
- 2. An epoxy meniscus may extend about 1.5mm down the lead
- 3. Burr around bottom of epoxy may be 0.5mm max.

5.0mm ROUND RED LED LAMP

Absolute Maximum Ratings(Ta=25°C)				
Parameter	Symbol	Rating	Unit	
Power Dissipation	PD	80	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	2000	V	
Operation Temperature Range	Topr	-25to+85	°C	
Storage Temperature Range		-40to+100	°C	
Lead Soldering Temperature(3.0mm from body) for 5	260	°C		

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

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	Iv	If=20mA	350		500	mcd
Forward Voltage	Vf	If=20mA	1.9		2.4	v
Wave length	WLD	If=20mA	620		630	nm
Reverse Current	Ir	Vr=5v			10	uA
Viewing Angle	2 0 1/	If=20mA		120		deg



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-、	If you nee	ed pin to be bent because of design:
	1、 The	e lead frame can only be bent or cut when it is 3mm or above away from the colloid.
		e molding of material if needed must be finished before soldering, while molding the I is not allowed to be the fulcrum and must be finished by professional with fixture;
	3、 Lea Bo	ad frame molding must guarantee that the space between lead is same as Circuitry ard
	vib	ch voltage static electricity could be produced while molding the Pin because of ration friction of machine, so the machine must be reliably grounding (By way of wing ion fan to eliminate static electricity)
二、		Condition :
	1, Do	not conduct the electricity while soldering the LED
	2, Do	not forces while the lead are in the heating condition.
	3、 Ma	x. soldering condition:
	Manual so	oldering : Wave soldering
		er of iron: 30 W Highest Warm up temperature : 120°C
	Highest Te	Highest Dip soldering temperature 260 °C
	Longest So	bldering time: 3 seconds Longest Dip soldering time: 5 seconds
	Soldering	position: Dip soldering position:
		e from the colloid base 3mm above from the colloid base.
三、	Anti-stati	c notice :
		the LED instrument must be grounding
		the people, who are possible to touch the LED must wear anti-static wrists and gloves.
		y LED damaged by static will appear some bad characters, such as , leakage current
		rease, Static forward voltage decrease.
四、		ent protection :
		d protective resistor in series to make it work stable.
		sistor value formula: R= (VCC-VF) /IF (VCC is power supply voltage, VF is LED
		ve voltage, IF is forward current.)
五、		performance test and application :
		tile testing VF, brightness and wavelength, the current must be set with 20mA; test VR,
		must be set with 10uA; Test IR, VR must be set with 5V.
		alling testing and using LED, LED must be provided with the same current and tested
	=	constant current source, and then we can make sure the brightness and consistency of
		er characteristics Dusad under the environment temperature between 20% + 60%
		D used under the environment temperature between -30 °C \sim + 60 °C
		ten the products are well sorted, please do not use it to the same products with different sees or bag Numbers (Marked in the label), so as to avoid the color and brightness
		sses or bag Numbers (Marked in the label), so as to avoid the color and brightness
1	dif	ference. 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)