LED LAMPS SPECIFICATION

●COMMODITY: AXIAL TYPE LAMP

DEVICE NUMBER : BL-XG0361-F9

●ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25°C)

Chip				Absolute Maximun			Electro-optical			Viewing		
		Dominant	Lens	Rating			Data (At 20mA)			Angle		
Emitted Color	Wave Length	Want Length	Appearance		Pd	If	Peak		(V)		ncd)	$\frac{2\theta}{(\text{deg})}$
	$\lambda p (nm)$	$\lambda d(nm)$		(nm)	(mW)	(mA)	If(mA)	Тур.	Max.	Min	Тур.	(ueg)
Yellow Green	568	571±5	Water Clear	30	80	30	100	2.2	2.6	18.5	45.0	35

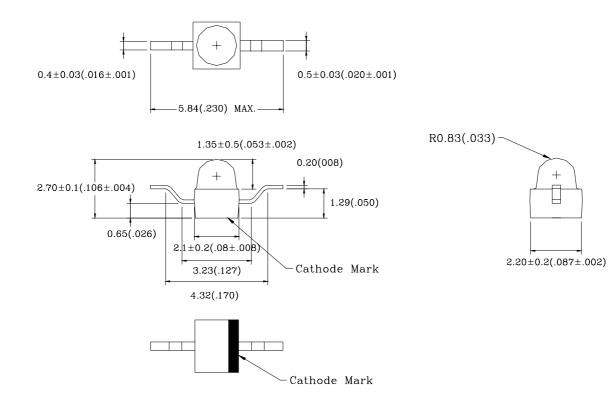
Remark : 1. Viewing angle is the Off-axis angle at which the luminous intensity is half the axial luminous intensity.

2. This product doesn't contain restriction substance, comply ROHS standard

●ABSOLUTE MAXIMUN RATINGS (Ta=25°C)

Reverse Voltage	5V
Reverse Current (VR=5V)	
Operating Temperature Range	\dots -25°C ~ 80°C
Storage Temperature Range	
Lead Soldering Temperature	

PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters (inches).

2. Tolerance is ± 0.25 mm (0.01") unless otherwise specified.

3.Lead spacing is measured where the leads emerge from the package.

4.Specifications are subject to change without notice.

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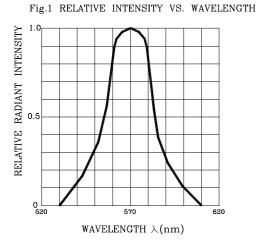
REVISION: 1.1

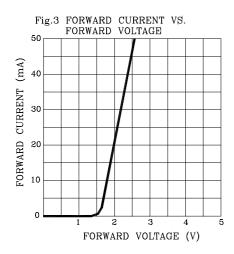
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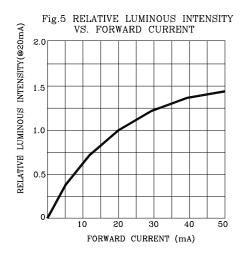
LED LAMP SPECIFICATION

COMMODITY : AXIAL TYPE LED LAMPDEVICE NUMBER : BL-XG0361-F9

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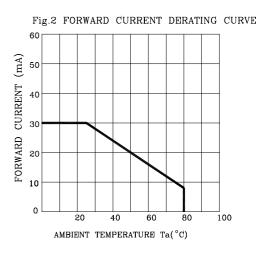


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

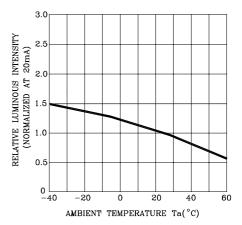
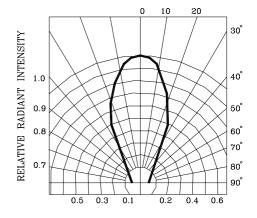


Fig.6 RADIATION DIAGRAM



AXIAL LED LAMP SPECIFICATION

•COMMODITY : AXIAL TYPE LED LAMP

• DEVICE NUMBER : BL-XG0361-TR9

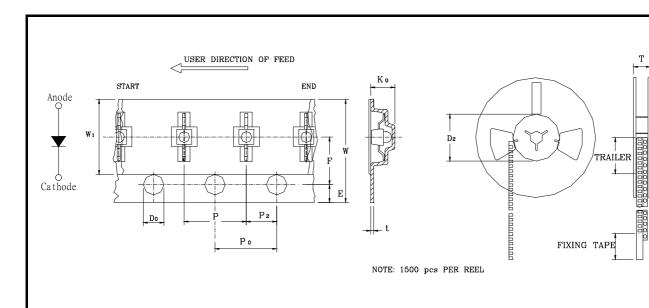
TAPPING AND PACKAGING SPECIFICATION

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LEADER 1

TAPPING AND PACKAGING SPECIFICATION REVISION: 1.0							
		SPECIFICATION					
ITEM	SYMBOL	Mini	mum	Maximum			
		mm	inch	mm	inch		
Tape Feed Hole Diameter (DIA)	D ₀	1.40	0.055	1.55	0.061		
Feed Hole Location	Е	1.65	0.065	1.85	0.072		
Centers Line Dimensions Length Direction	F	5.45	0.215	5.55	0.218		
Compartment Depth	K ₀	3.00	0.118	3.20	0.126		
Carrier Tape Overall Thickness	К	3.00	0.118	3.20	0.126		
Compartment Pitch	Р	3.90	0.153	4.10	0.161		
Sprocket Hole Diameter	\mathbf{P}_0	3.90	0.153	4.10	0.161		
Centers Line Dimensions Length Direction	P ₂	1.95	0.076	2.05	0.080		
Carrier Tape Thickness	t	_	_	0.30	0.012		
Carrier Tape Width	W	12.00	0.472	12.30	0.484		
Flange Diameter	А	178.0	7.008	180.0	7.087		
Hub Spindle Hole	С	12.50	0.492	13.50	0.531		
Hub Diameter	D ₂	20.00	0.788	21.50	0.846		
Fixing Tape Width	\mathbf{W}_1	9.00	0.354	9.30	0.366		
Flange Space Between Flanges	Т	16.00	0.629	17.00	0.669		
Compartment Length	A_0	1.87	0.074	2.07	0.081		
Compartment Width	B ₀	6.30	0.248	6.50	0.256		



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SURFACE MOUNT CHIP LED LAMP SPECIFICATION

RELIABILITY TEST

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Classification	Test Item	Reference Standard	Test Conditions	Result
	Operation Life	MIL-STD-750:1026 MIL-STD-883:1005 JIS C 7021 :B-1	Connect with a power If=20mA Ta=Under room temperature Test time=1,000hrs	0/20
Endurance	High Temperature High Humidity Storage	MIL-STD-202:103B JIS C 7021 :B-11	$Ta=+65^{\circ}C \pm 5^{\circ}C$ RH=90%-95% Test time=240hrs	0/20
Test	High Temperature Storage	MIL-STD-883:1008 JIS C 7021 :B-10	High Ta=+85°C±5°C Test time=1,000hrs	0/20
	Low Temperature Storage	JIS-C-7021 :B-12	Low Ta=-35°C±5°C Test time=1,000hrs	0/20
	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	-35° C ~ $+25^{\circ}$ C ~ $+85^{\circ}$ C ~ $+25^{\circ}$ C 60min 20min 60min 20min Test Time=5cycle	0/20
Environmental Test	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	-35°C±5°C ~+85°C±5°C 20min 20min Test Time=10cycle	0/20
	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	Preheating : 140°C -160°C ,within 2 minutes. Operation heating : 235°C (Max.), within 10seconds. (Max.)	0/20

JUDGMENT CRITERIA OF FAILURE FOR THE RELIABILITY

Measuring items	Measuring items Symbol		Judgement criteria for failure			
Forward voltage	$V_{F}(V)$	If=20mA	Over Ux1.2			
Reverse current	Ir(uA)	Vr=5V	Over Ux2			
Luminous intensity	Iv (mcd)	If=20mA	Below SX0.5			

Note: 1.U means the upper limit of specified characteristics. S means initial value.

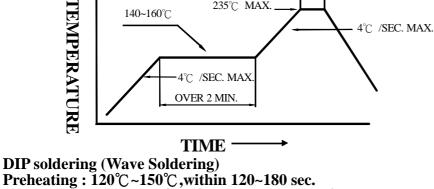
2.Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.

SURFACE MOUNT CHIP LED LAMP SPECIFICATION

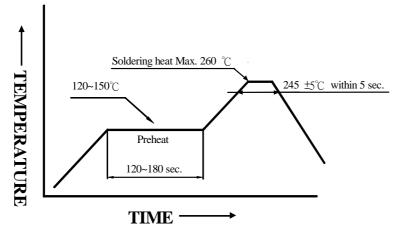
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1. SOLDERING:

 Manual Of Soldering The temperature of the iron tip should not be higher than 300°C(572°F) and Soldering within 3 seconds per solder-land is to be observed.
Reflow Soldering Preheating : 140°C~160°C±5°C, within 2 minutes. Operation heating : 235°C (MAX.) within 10 seconds.(Max) Gradual Cooling (Avoid quenching).



Preheating : 120°C~150°C, within 120~180 sec. Operation heating : 245°C±5°C within 5 sec.260°C (Max) Gradual Cooling (Avoid quenching).



2. Handling :

Care must be taken not to cause to the epoxy resin portion of BRIGHT LEDs while it is exposed to high temperature.

Care must be taken not rub the epoxy resin portion of BRIGHT LEDs with hard or sharp article such as the sand blast and the metal hook.

SURFACE MOUNT CHIP LED LAMP SPECIFICATION

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3. Notes for designing:

Care must be taken to provide the current limiting resistor in the circuit so as to drive the BRIGHT LEDs within the rated figures. Also, caution should be taken not to overload BRIGHT LEDs with instantaneous voltage at the turning ON and OFF of the circuit.

When using the pulse drive care must be taken to keep the average current within the rated figures. Also, the circuit should be designed so as be subjected to reverse voltage when turning off the BRIGHT LEDs.

4. Storage:

In order to avoid the absorption of moisture, it is recommended to solder BRIGHT LEDs as soon as possible after unpacking the sealed envelope.

If the envelope is still packed, to store it in the environment as following:

- (1) Temperature : 5° C⁻ 30° C^{(41°}F)Humidity : RH 60% Max.
- (2) After this bag is opened, devices that will be applied to infrared reflow, vapor-phase reflow, or equivalent soldering process must be:
- a. Completed within 24 hours.
- b. Stored at less than 30% RH.
- (3) Devices require baking before mounting, if:(2) a or (2) b is not met.
- (4) If baking is required, devices must be baked under below conditions: 12 hours at 60℃±3℃.
- 5. Package and Label of Products:
 - (1) Package: Products are packed in one bag of 3000 pcs (one taping reel) and a label is attached on each bag.
 - (2) Label:

■」佰鴻工業股份有限公司 ◆ BRIGHT LED ELECTRONICS CORP.		BRIGHT LED LOGO
Part No.:BL-Hxxxxx-TR		Part No.
		Quantity BIN.
Sealing date:xxxxx -		Sealing Date
	<u>X</u>	<u>xx xx xx</u> Year Month Day
		Year Month Day

Manufacture Location