

LED LAMPS SPECIFICATION

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REVISION: 1.1

©COMMODITY : 10ϕ Round

DEVICE NUMBER: BL-B3130A

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2002.03.05	1.0	1.0	1.0	1.0	1.0			Initial Released

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LED LAMPS SPECIFICATION

COMMODITY: Round ϕ 10

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VERSION: 1.0

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

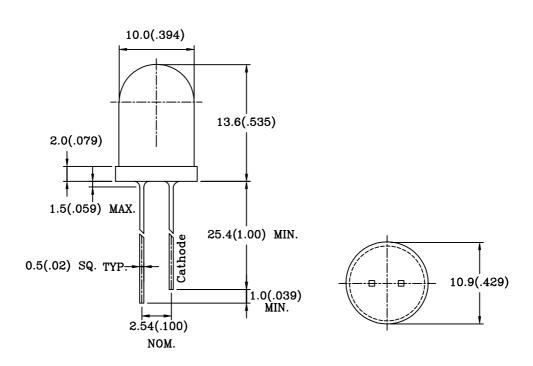
Chip		Lens	A	Absolute Rat	Maximu ting	m	Electro-optical Data (At 20mA)			Viewing
Emitted Color	Wave Length λ P(nm)	Appearance	Δ λ (nm)	Pd (mW)	If (mA)	Peak If(mA)		(V) Max.	Iv Typ. (mcd)	Angle $2 \theta 1/2$ (deg)
Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	90.0	50

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

●ABSOLUTE MAXIMUN RATINGS (Ta=25°C)

Reverse Voltage	5V
Reverse Current (V _R =5V)	
Operating Temperature Range	•
Storage Temperature Range	40°C ~ 85°C
Lead Soldering Temperature	260°C For 5 Seconds

PACKAGE DIMENSIONS



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

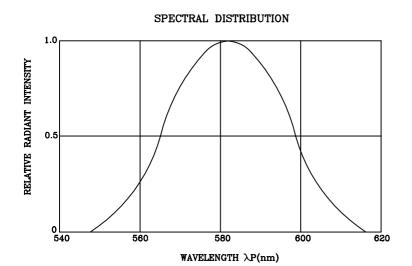
- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise specified.
- 3.Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

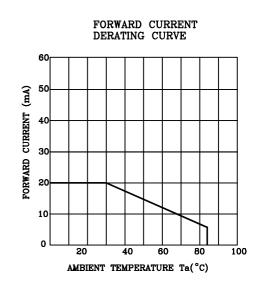
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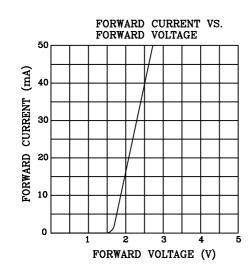
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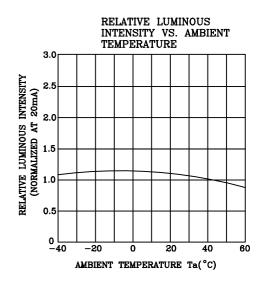
● ELECTRICAL AND OPTICAL CHARACTERISTICS(Ta=25°C)

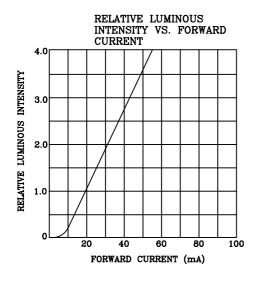


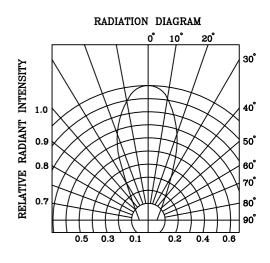


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LED LAMP SPECIFICATION

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=30mA Ta=Under room temperature Test time=1,000hrs	0/100
Endurance Test	High Temperature High Humidity Storage	MIL-STD-202:103B JIS C 7021 :B-11	Ta=85°C±5°C RH=90%-95% Test time=1,000hrs	0/100
	High Temperature Storage	MIL-STD-883:1008 JIS C 7021 :B-10	High Ta=105°C±5°C Test time=1,000hrs	0/100
	Low Temperature Storage	JIS-C-7021 :B-12	Low Ta=-55°C±5°C Test time=1,000hrs	0/100
	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	-35°C ~ 25°C ~ 85°C ~ 25°C 30min 5min 30min 5min Test Time=10cycle	0/100
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	105°C±5°C ~ -55°C±5°C 10min 10min Test Time=10cycle	0/100
Environmental Test	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	T.sol=260±5°C Dwell Time=10±1sec.	0/50
	Solderability	MIL-STD-202:208D MIL-STD-750:2026 MIL-STD-883:2003 JIS C 7021 :A-2	T.sol=230±5°C Dwell Time=5±1sec.	0/50
1	Lead Bending Stress	MIL-STD-750:2036 JIS C 7021 :A-11	0°~90°~0°bend, 3 cycles Weight 250g	0/50

JUDGMENT CRITERIA OF FAILURE FOR THE RELIABILITY

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
Forward voltage	VF	IF=20mA	Over Ux1.2
Reverse current	IR	VR=5V	Over Ux2
Luminous intensity	IV	IF=20mA	Below Sx0.5

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

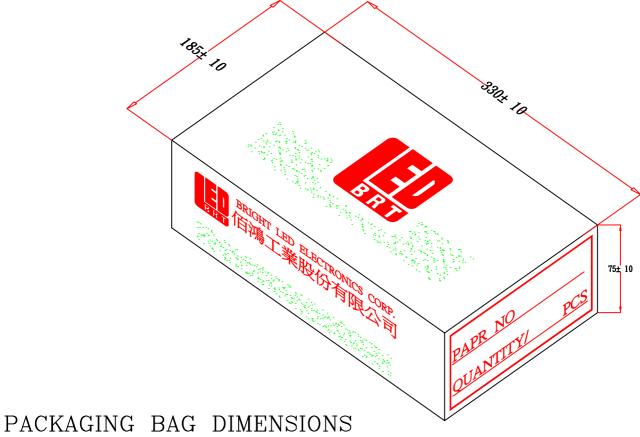
2.Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.

PACKAGING DIMMENSIONS

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PACKAGING BOX DIMENSIONS



NOTES:

- 1. 250 PCS PER BAG, 1K PCS PER BOX
- 2. ALL Dimensions are in millimeters(inches).
- 3. Specifications are subject to change without notice.