BRIGHT LED ELECTRONICS CORP.

LED LAMPS SPECIFICATION

●COMMODITY：4φ Standard 1.0"Lead

●DEVICE NUMBER：BL-B2132　　　　　　　　　　　　　　　　PAGE:　　　2

●ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25℃)　　　　VERSION：1.0

Chip		Lens	Absolute Maximun Rating				Electro-optical Data (At 20mA)			Viewing Angle 2θ1/2 (deg)
Emitted Color	Peak Wave Length λP(nm)	Appearance	Δλ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vf(V) Typ.	Vf(V) Max.	Iv Typ. (mcd)	
Green	568	Green Diffused	30	80	30	150	2.2	2.6	70.0	55

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

●ABSOLUTE MAXIMUN RATINGS (Ta=25℃)

Reverse Voltage ……………………………………………………………………..… 5V
Reverse Current (-Vr=5V) …………………………………………………………….... 100μA
Operating Temperature Range ………………………………………..……..……………..…… -40℃ ～ 80℃
Storage Temperature Range ………………………………………………………..…… -40℃ ～ 85℃
Lead Soldering Temperature …………………………………..….……………...………… 260℃ For 5 Seconds

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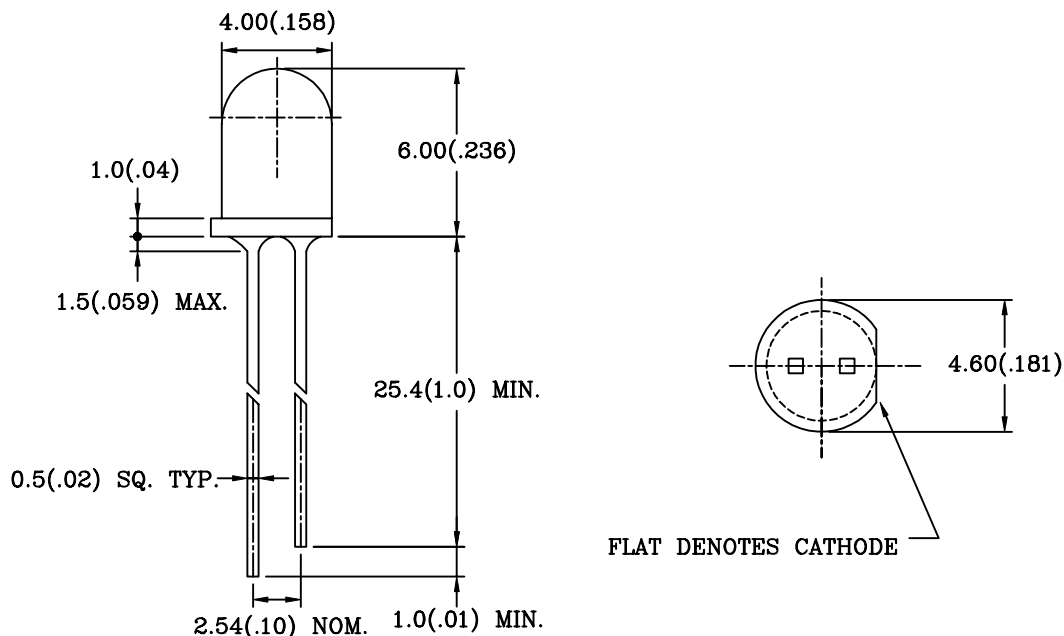
NOTES: 1.All dimensions are in millimeters (inches).

　　　　2.Tolerance is ± 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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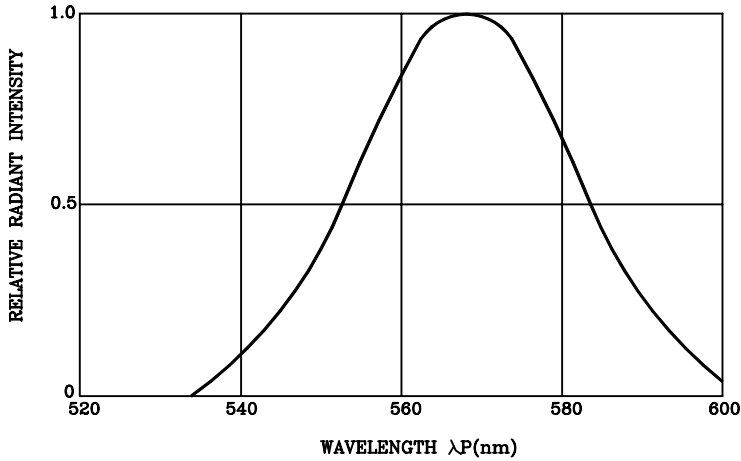## LED LAMPS SPECIFICATION

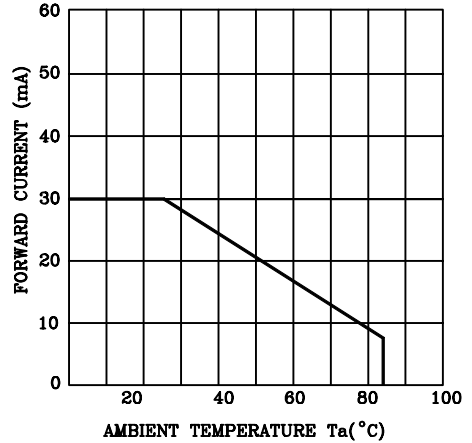● COMMODITY:4∅ Standard 1.0" Lead

● DEVICE NUMBER: BL-B2132
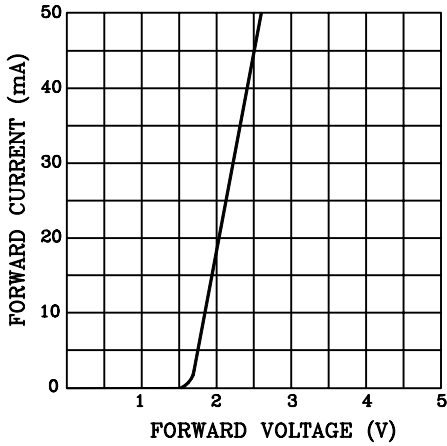
● ELECTRICAL AND OPTICAL CHARACTERISTICS(Ta=25°C)

SPECTRAL DISTRIBUTION

RELATIVE RADIANT INTENSITY

WAVELENGTH λP(nm)

FORWARD CURRENT DERATING CURVE

FORWARD CURRENT (mA)
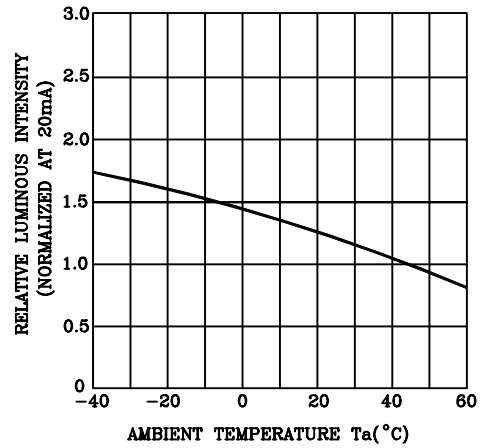
AMBIENT TEMPERATURE Ta(°C)

FORWARD CURRENT VS. FORWARD VOLTAGE

FORWARD CURRENT (mA)

FORWARD VOLTAGE (V)

RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

RELATIVE LUMINOUS INTENSITY (NORMALIZED AT 20mA)

AMBIENT TEMPERATURE Ta(°C)

RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

RELATIVE LUMINOUS INTENSITY

FORWARD CURRENT (mA)
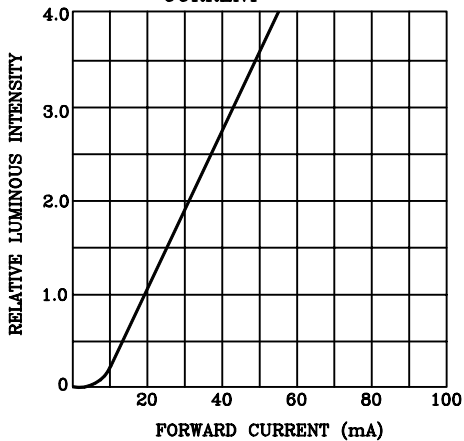
RADIATION DIAGRAM

RELATIVE RADIANT INTENSITY
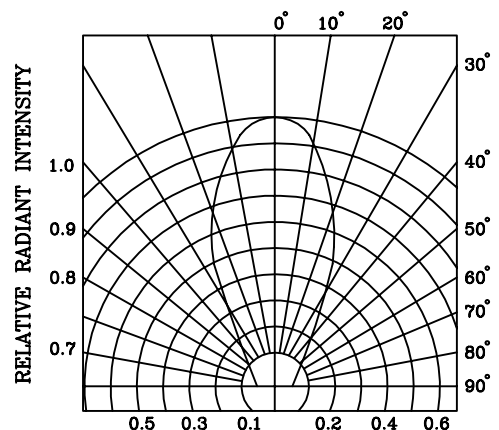
BRIGHT LED ELECTRONICS CORP.

LED LAMP SPECIFICATION

RELIABILITY TEST

Classification	Test Item	Reference Standard	Test Conditions	Result
Endurance Test	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
	High Temperature High Humidity Storage	MIL-STD-202:103B JIS C 7021 :B-11	Ta=85℃±5℃ RH=90%-95% Test time=1,000hrs	0/100
	High Temperature Storage	MIL-STD-883:1008 JIS C 7021 :B-10	High Ta=105℃±5℃ Test time=1,000hrs	0/100
	Low Temperature Storage	JIS-C-7021 :B-12	Low Ta=-55℃±5℃ Test time=1,000hrs	0/100
Environmental Test	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	-35℃ ～ 25℃ ～ 85℃ ～ 25℃ 30min 5min 30min 5min Test Time=10cycle	0/100
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	105℃±5℃ ～ -55℃±5℃ 10min 10min Test Time=10cycle	0/100
	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	T.sol=260±5℃ 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℃ Dwell Time=5±1sec.	0/50
	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

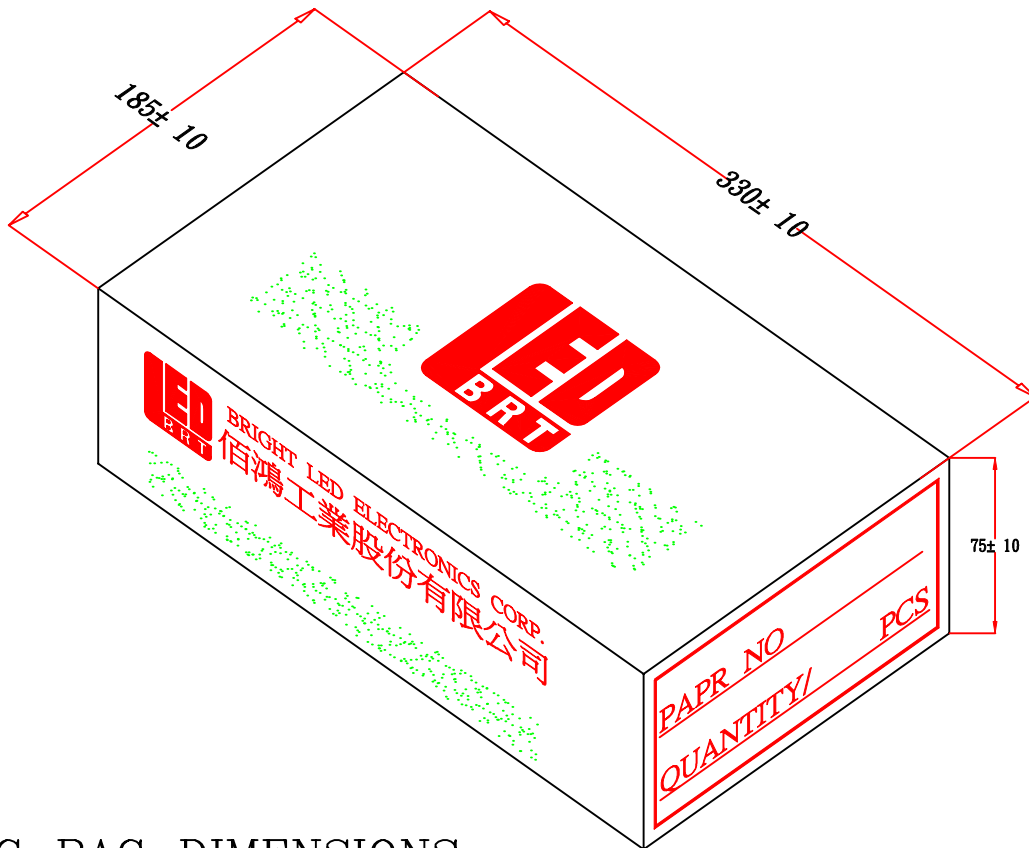   to normal ambient conditions after completion of each test.

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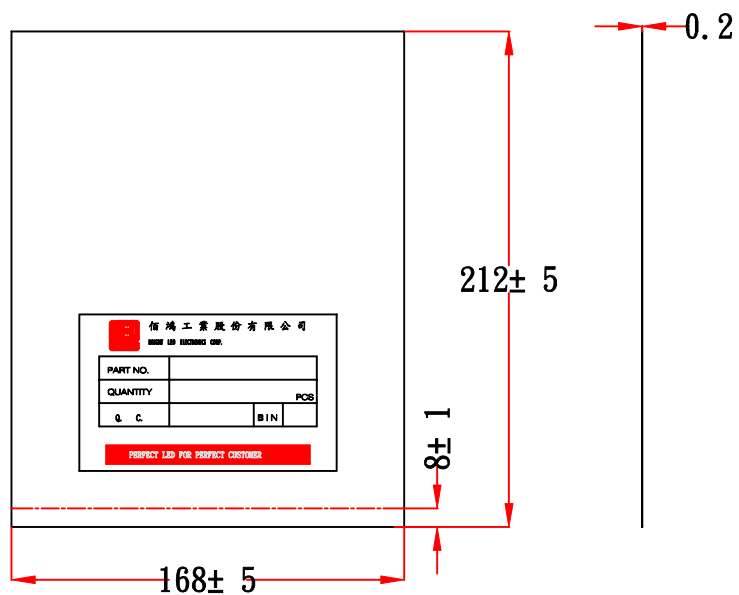
PACKAGING DIMMENSIONS

PACKAGING BOX DIMENSIONS

185± 10

330± 10

75± 10

PAPR NO

QUANTITY/

PCS

BRIGHT LED ELECTRONICS CORP.

佰鴻工業股份有限公司

PACKAGING BAG DIMENSIONS

0.2

212± 5

8± 1

168± 5

佰鴻工業股份有限公司
BRIGHT LED ELECTRONIC CORP.

PART NO.

QUANTITY   PCS

Q. C.   BIN

PERFECT LED FOR PERFECT CUSTOMER

NOTES:

1. 500PCS PER BAG, 5K PCS PER BOX

2. ALL Dimensions are in millimeters(inches).

3. Specifications are subject to change without notice.