BRIGHT LED ELECTRONICS CORP.

SINCE 1981

LED LAMPS SPECIFICATION

TOTAL PAGE: 5
PAGE: 1
REVISION: 1.0

- COMMODITY：T-1 3/4 Standard 1.0”Lead, 5 ϕ
- DEVICE NUMBER：BL-BA1134

SHEET / DATE	1	2	3	4	5						CONTENTS
2002.12.04	1.0	1.0	1.0	1.0	1.0						Initial Released

TOTAL PAGE	5																

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BRIGHT LED ELECTRONICS CORP.

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BRIGHT LED ELECTRONICS CORP.

LED LAMPS SPECIFICATION

●COMMODITY：T-1 3/4 Standard 1.0”Lead, 5 ϕ PAGE: 2

●DEVICE NUMBER：BL-BA1134 VERSION：1.0

●ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25℃)

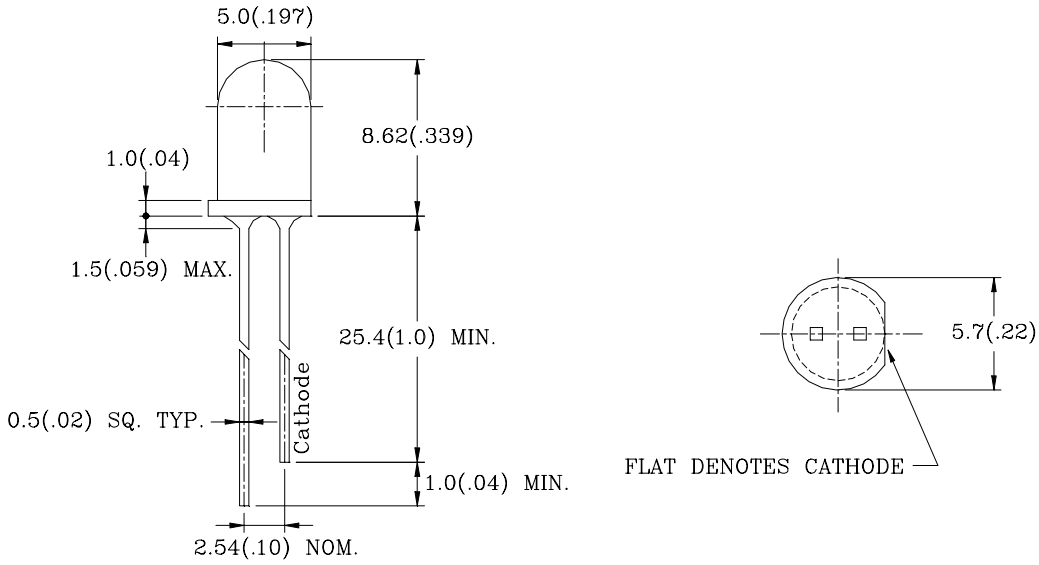
Chip		Lens Appearance	Absolute Maximum Rating				Electro-optical Data (At 20mA)			Viewing Angle 2 θ 1/2 (deg)
Emitted Color	Peak Wave Length λ P(nm)		$\Delta\lambda$ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vf(V) Typ.	Vf(V) Max.	Iv Typ. (mcd)	
Amber	610	Amber Diffused	35	60	30	150	2.15	2.6	30.0	30

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

●ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

Reverse Voltage …… 5V
Reverse Current (V_R=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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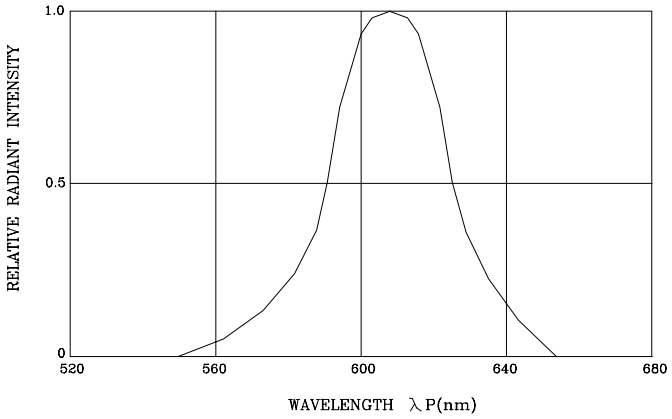
LED LAMPS SPECIFICATION

●COMMODITY：T-1 3/4 Standard 1.0”Lead, 5 ϕ

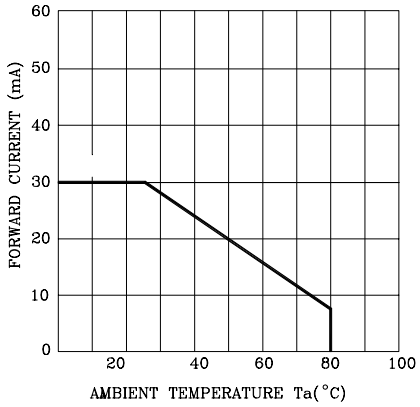
●DEVICE NUMBER：BL-BA1134 PAGE: 3

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

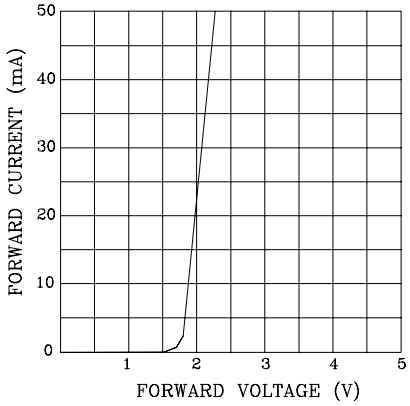
SPECTRAL DISTRIBUTION



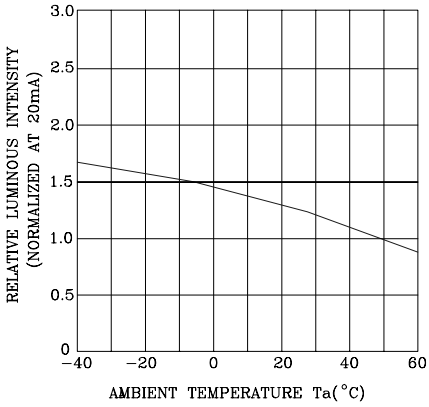
FORWARD CURRENT DERATING CURVE



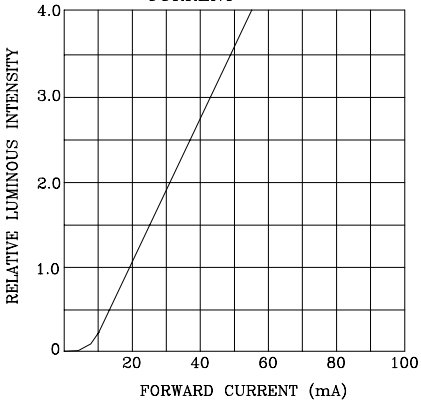
FORWARD CURRENT VS. FORWARD VOLTAGE



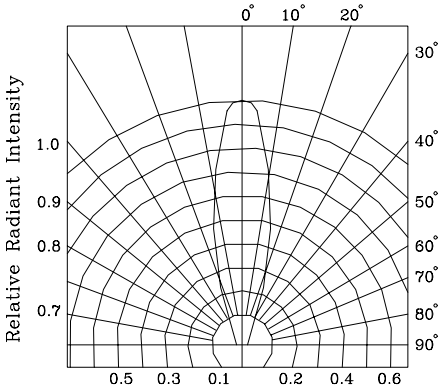
RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE



RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



RADIATION DIAGRAM



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LED LAMPS SPECICATION

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=20mA 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=240hrs	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 Text	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	-55℃ ～25℃ ～105℃ ～25℃ 30min 5min 30min 5min Test Time=10cycle	0/100
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	-55℃±5℃ ～105℃±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=5±1sec.	0/50
	Solder ability	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	V_F	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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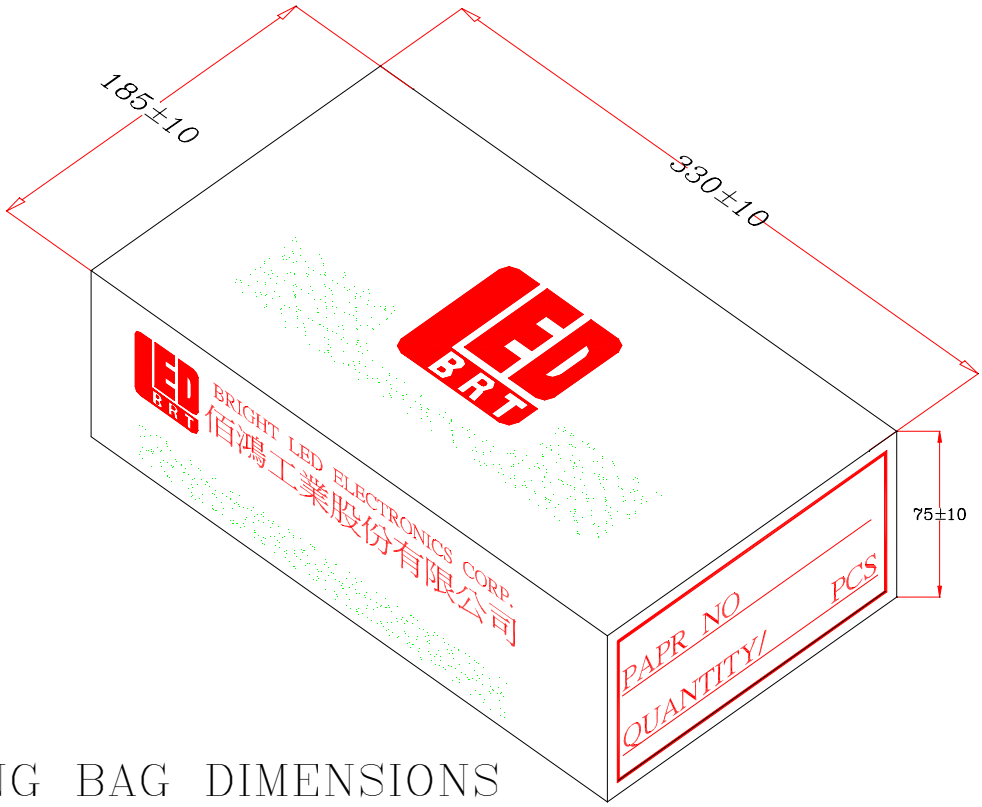
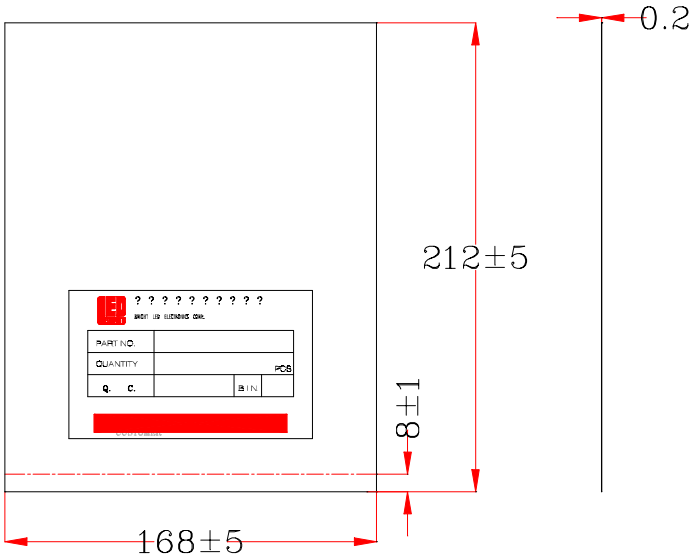
PACKAGING DIMMENSIONS

PACKAGING BOX DIMENSIONS:



PACKAGING BAG DIMENSIONS



NOTES:

1.500 PCS PER BAG, 5K PCS PER B0X

2.ALL Dimensions are in millimeters (inches).

3.Specifications are subject to change without notice.