

BRIGHT LED ELECTRONICS CORP.

RESISTOR LAMP SPECIFICATION

● DEVICE NUMBER : BR-B6134-05V

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● FEATURES :

VERSION : 1.0

Plastic case, color diffused

T-1 Standard 1.0" Lead, 5 ϕ

For DC and pulse operation

With current limiting resistor for 5V

TTL & CMOS compatible

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

Chip		Lens Appearance	Operating Voltage MAX. (V)	Electro-optical Data (At 5V)			Viewing Angle (deg)
Emitted Color	Peak Wave Length λP (nm)			If (mA)		Iv Typ. (mcd)	
				Typ.	Max.		
Super Red	660	Red Diffused	5	8	12	120.0	35

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

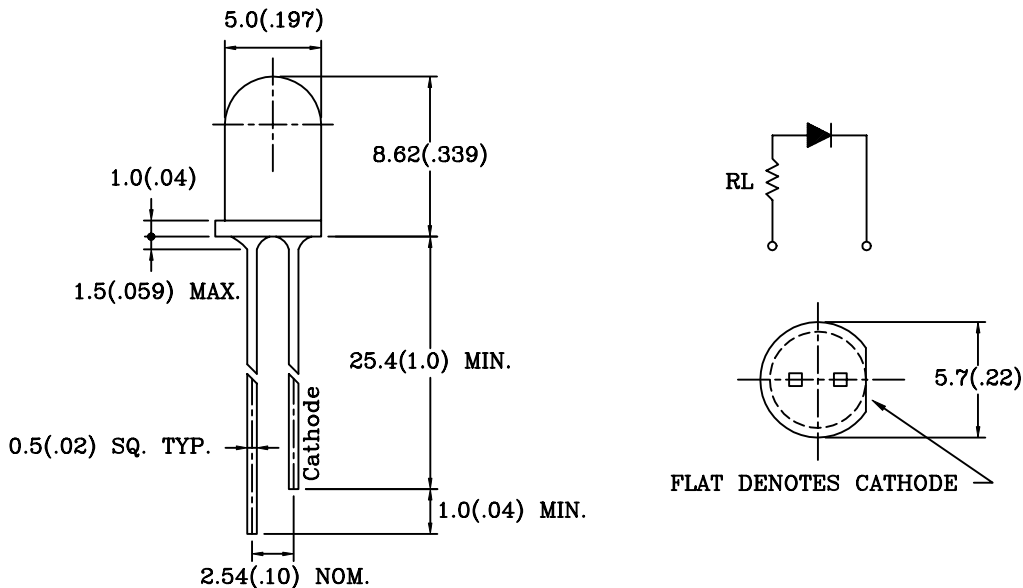
● ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Operating Temperature Range -45°C ~ 80°C

Storage Temperature Range -45°C ~ 85°C

Lead Soldering Temperature (1.6mm (1/16inch) From Body) 260°C For 5 Seconds

● PACKAGE DIMENSIONS



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

2. Tolerance is $\pm 0.25\text{mm}$ (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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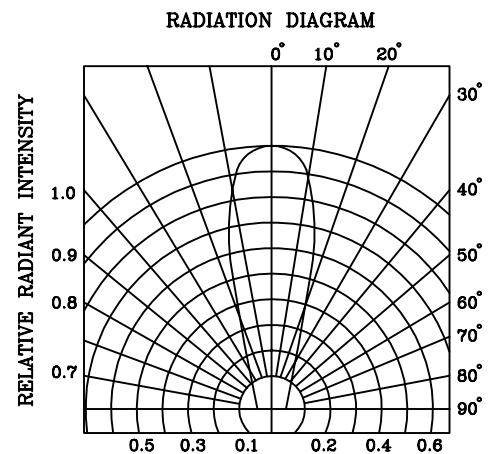
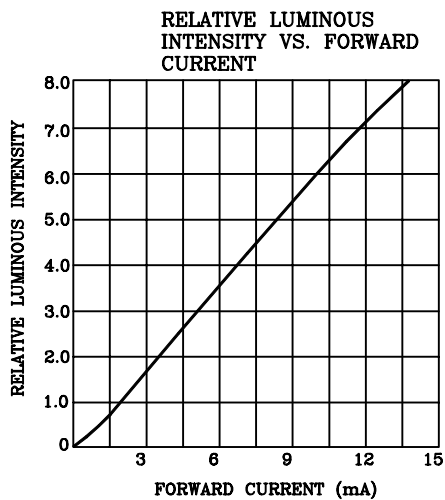
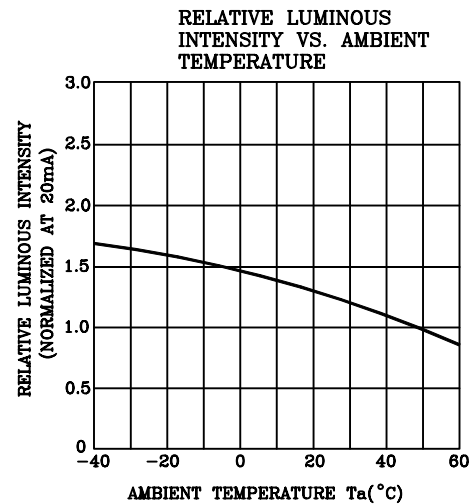
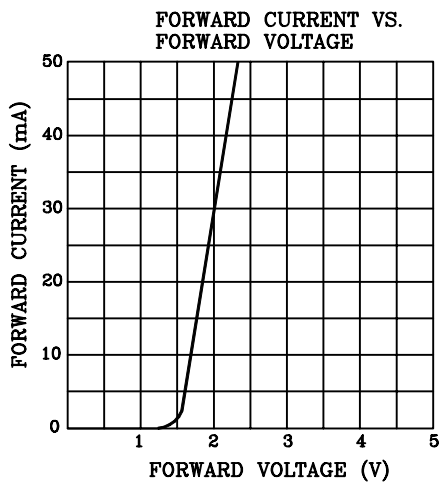
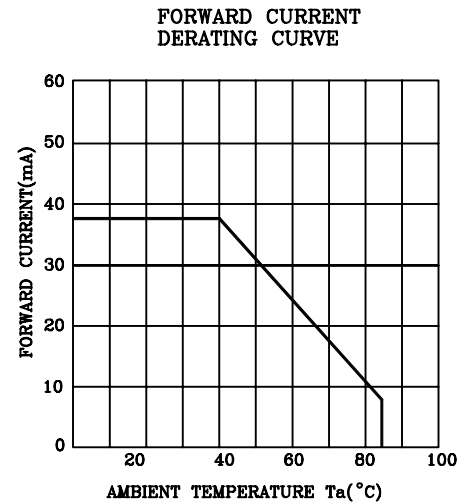
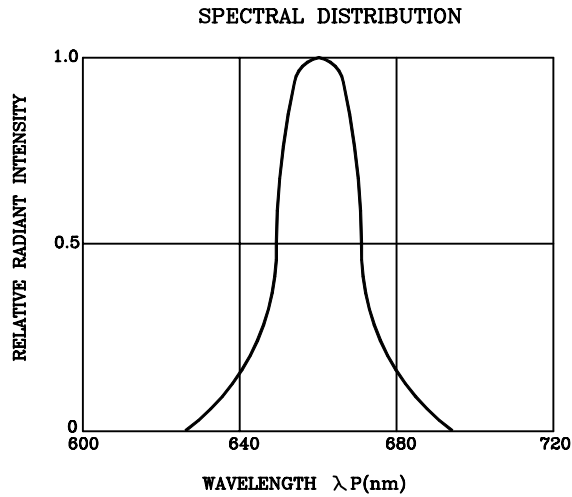
● COMMODITY: T-1 3/4 Standard 1.0" Lead, 5 ϕ

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● ELECTRICAL AND OPTICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

REVISION: 1.0



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RELIABILITY TEST

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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 V=5V Ta=Under room temperature Test time=1,000hrs	0/20
	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	0/20
	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
Environmental Test	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 60min 20min 60min 20min Test Time=5cycle	0/20
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	+85°C±5°C ~ -35°C±5°C 20min 20 min 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 10 seconds.(Max.)	0/20

JUDGMENT CRITERIA OF FAILURE FOR THE RELIABILITY

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
Forward Current	IF (mA)	V=5V	6-12mA
Reverse current	IR (uA)	VR=5V	Over Ux2
Liminous intensity	IV (mcd)	V=5V	Below Sx0.5

Note: 1.U means the upper limit of specific 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.

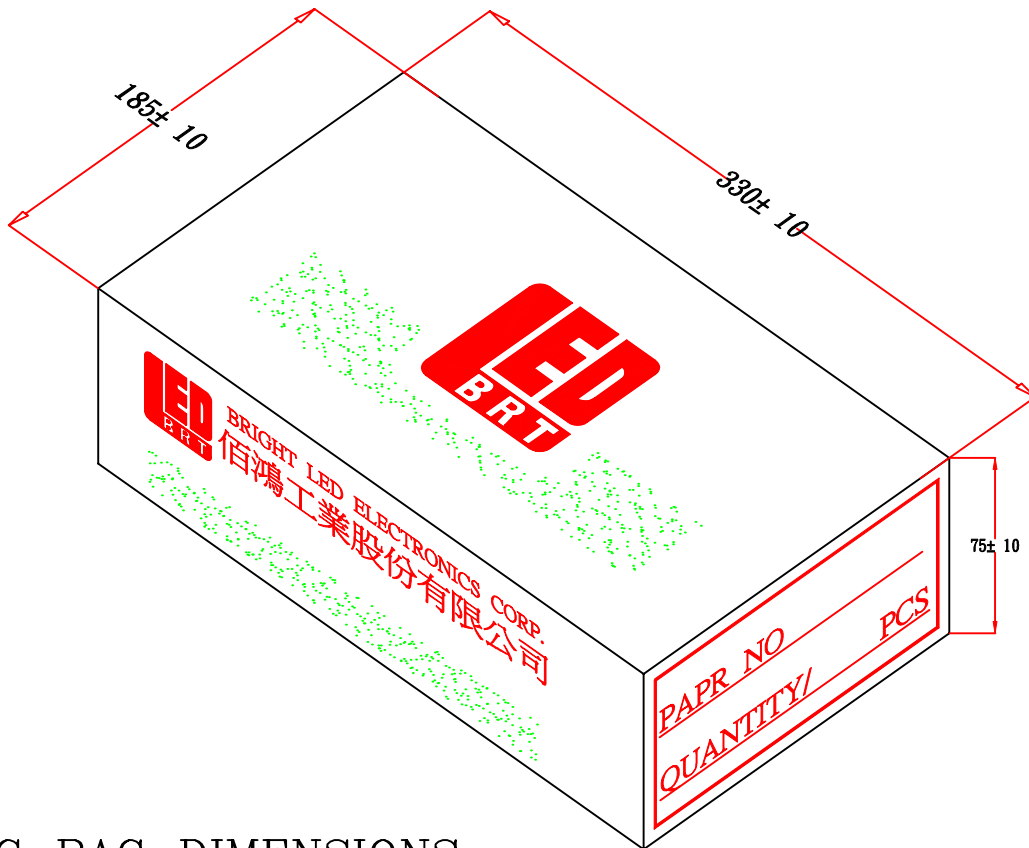
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PACKAGING DIMMENSIONS

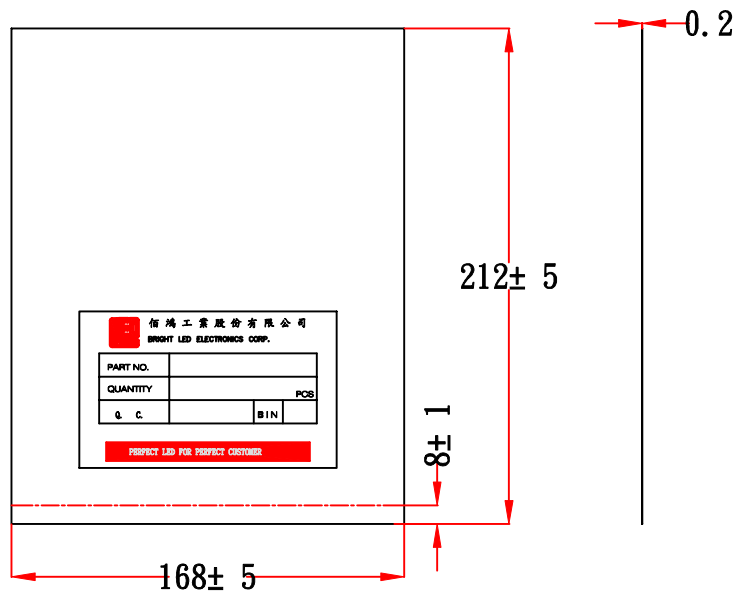
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PACKAGING BOX DIMENSIONS



PACKAGING BAG DIMENSIONS



NOTES:

1. 500 PCS PER BAG, 5K PCS PER BOX
2. ALL Dimensions are in millimeters(inches).
3. Specifications are subject to change without notice.