

LED LAMPS SPECIFICATION

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REVISION: 1.0

• COMMODITY : T-1 Standard 1.0" Lead 3 ϕ

●DEVICE NUMBER: BL-BVT201

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2001.08.20	1.0	1.0	1.0	1.0	1.0				Initial Released

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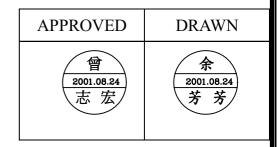
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LED LAMPS SPECIFICATION

• COMMODITY : T-1 Standard 1.0"Lead, 3 ϕ

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

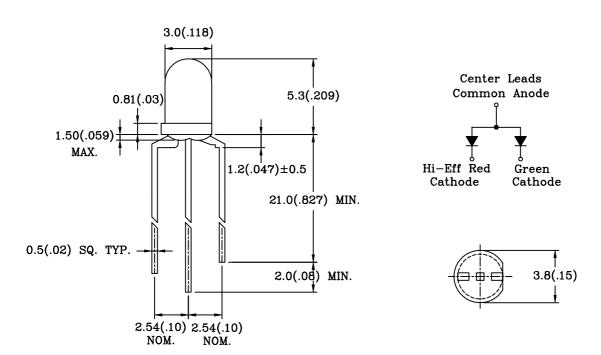
Chip			A	bsolute :		m	Electro-optical			Viewing
Peak		Lens	Rating				Data (At 20mA)			Angle
Emitted Wave Color Length	Appearance	Δλ	Pd (mW)	If (mA)	Peak If(mA)	Vf(V)		Iv Typ.	$\begin{array}{c} 2\theta 1/2 \\ \text{(deg)} \end{array}$	
$\lambda P(nm)$		(nm)				Тур.	Max.	(mcd)	(deg)	
Hi-Eff Red	635	White Diffused	45	100	30	150	2.0	2.6	35.0	40
Green	568	winte Diffused	30	100	30	150	2.2	2.6	35.0	40

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℃ ~	85℃
Lead Soldering Temperature	. 260°C For 5 Se	econds

●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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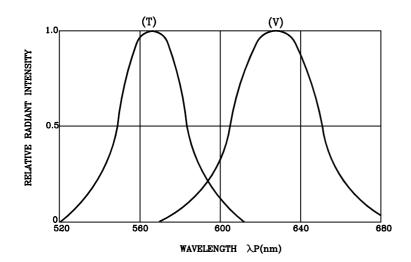
●COMMODITY:T-1 Standard 1.0" Lead 3ø

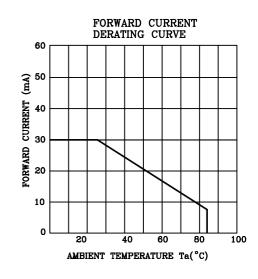
● DEVICE NUMBER: BL-BVT201

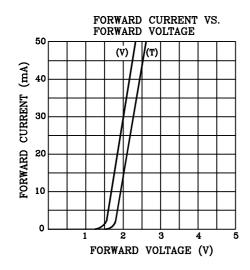
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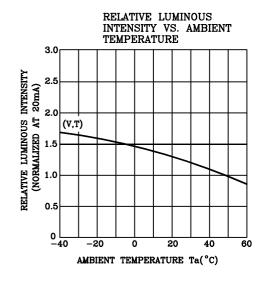
● ELECTRICAL AND OPTICAL CHARACTERISTICS(Ta=25°C)

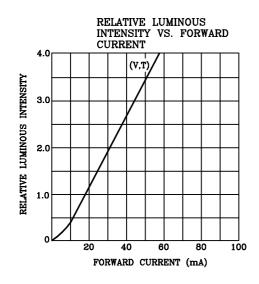
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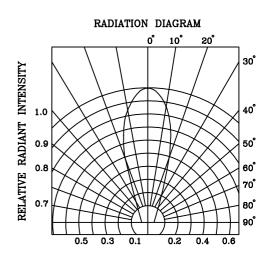












LED LAMPS SPECICATION

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	0/100
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=240hrs	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	-55°C ~ 25°C ~ 105°C ~ 25°C 30min 5min 30min 5min Test Time=10cycle	0/100
Environmental Test	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	-55°C±5°C ~ 105°C±5°C 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°C 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°C 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	$ m 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.

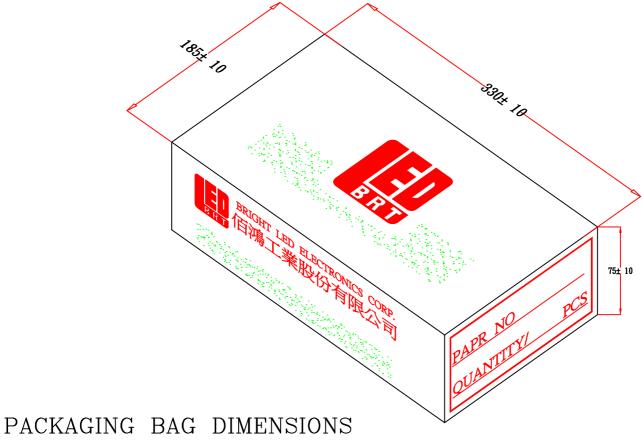
2.Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.

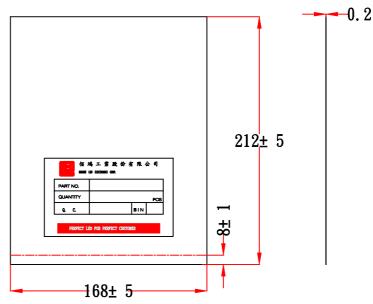
PACKAGING DIMMENSIONS

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PACKAGING BOX DIMENSIONS





NOTES:

- 1. 1000PCS PER BAG, 10K PCS PER BOX
- 2. ALL Dimensions are in millimeters(inches).
- 3. Specifications are subject to change without notice.