



BRIGHT LED ELECTRONICS CORP.

BLINKING LED LAMPS SPECIFICATION

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 REVISION: 1.0

- COMMODITY : Standard T1 3 φ , 1.0"Lead
- DEVICE NUMBER : BB-BX1171-C



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2003.07.02	1.0	1.0	1.0	1.0	1.0							Original Released

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BRIGHT LED ELECTRONICS CORP.

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APPROVED	DRAWER
	

BRIGHT LED ELECTRONICS CORP.

BLINKING LED LAMP SPECIFICATION

●DEVICE NUMBER : BB-BX1171-C

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●FEATURES :

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- Plastic case color red diffused
- Standard T1 3 φ , 1.0"Lead
- 1/4 Duty Cycle
- Pulse Rate 2.4 Hz (VDD=5V)
- Operating Voltage : 5V~10V (DC)
- Easily be driven by TTL & C-MOS circuit no external circuit needed

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

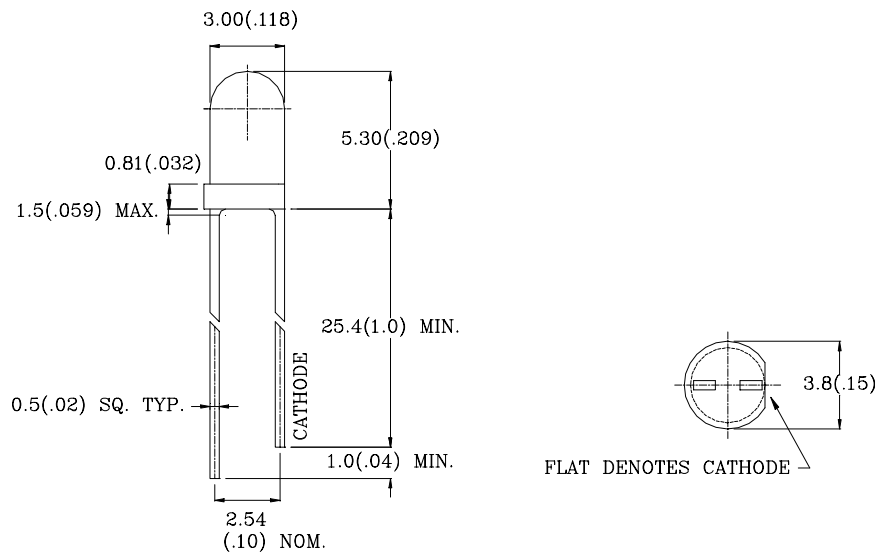
Chip		$\Delta \lambda$ (nm)	Lens Appearance	Forward Current		Pulse Rate (Hz) VDD=5V			Iv Typ. IF=25 mA (mcd)	Viewing Angle 2 θ 1/2 (deg)
Emitted Color	Peak Wave Length λ P (nm)			Typ.	Max.	Min.	Typ.	Max.		
Hi-Eff Green	568	30	Green Diffused	25	—	2.0	2.4	2.8	35	45

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 0°C ~ 70°C
- Storage Temperature Range -20°C ~ 85°C
- Operating Voltage (Max) 10 Volt
- Reverse Voltage (Max) 0.5 Volt

●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 : Standard T1 3 ϕ , 1.0"Lead

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

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Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

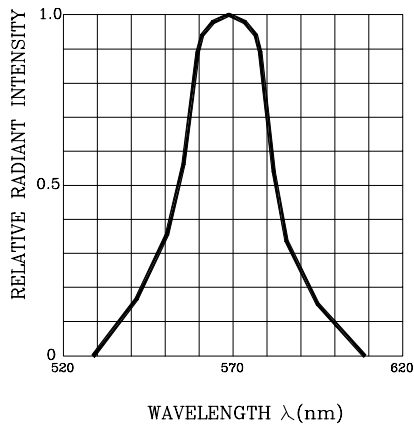


Fig.2 FORWARD CURRENT DERATING CURVE

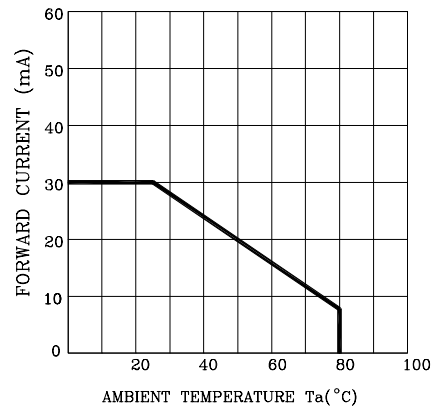


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

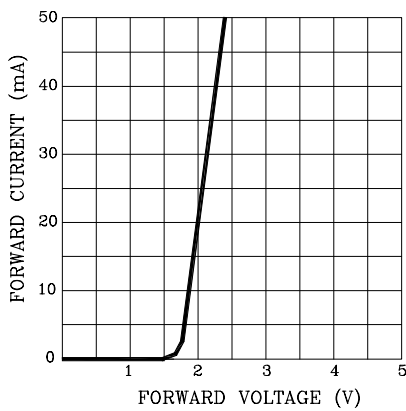


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

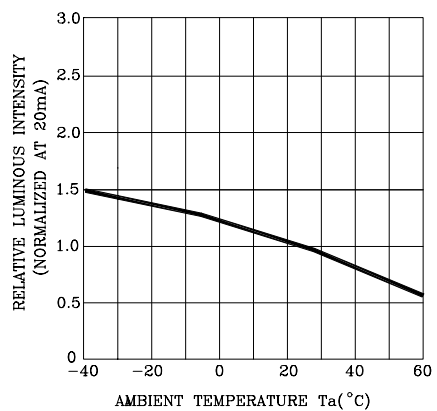
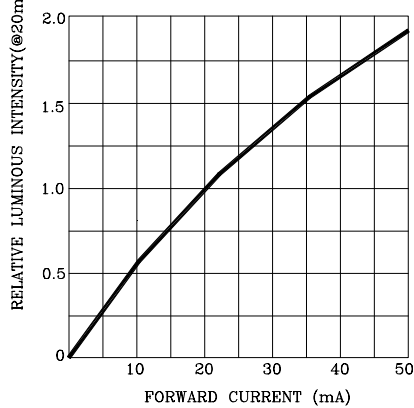
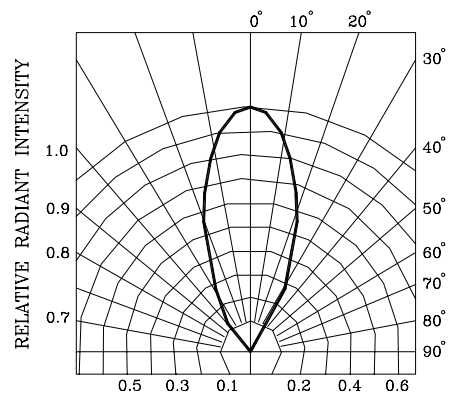


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



RADIATION DIAGRAM



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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=10V 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=+65°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 20min 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	Judgment criteria for failure
Pulse Rate (Hz)	F (Hz)	V=10V	2.0-3.0Hz
Pulse Rate (Hz)	F (Hz)	V=5V	2.0-3.0Hz
Luminous intensity	IV (mcd)	V=10V	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.

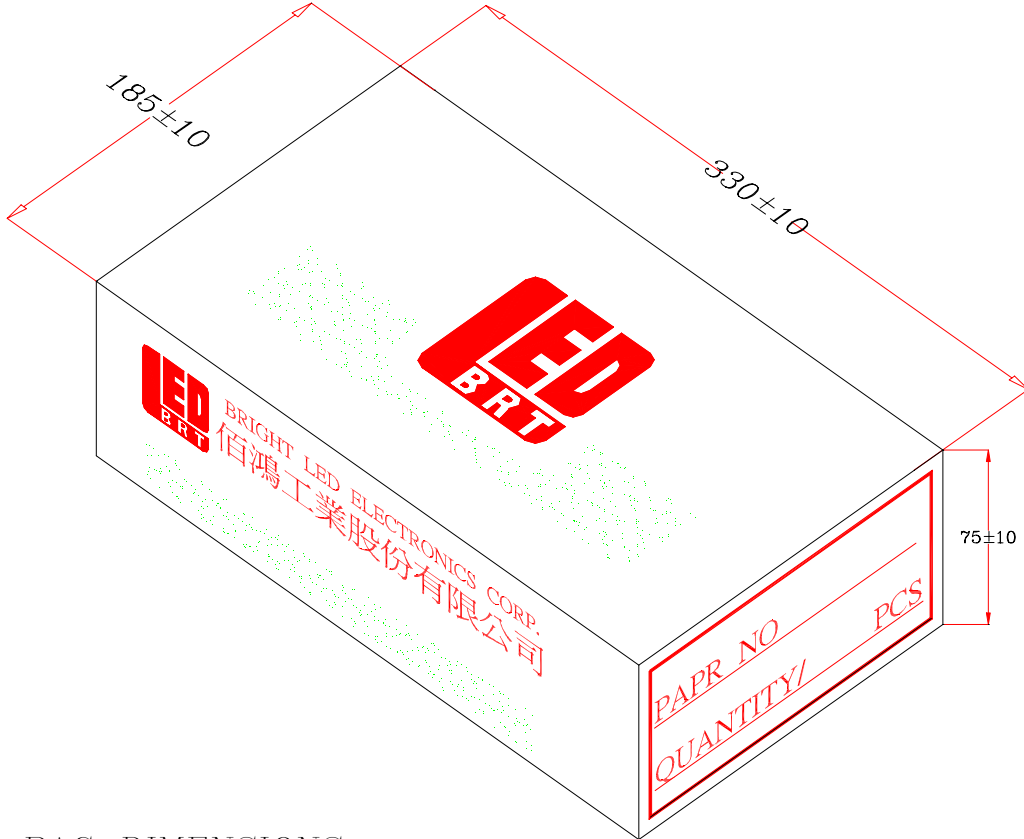
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PACKAGING DIMMENSIONS

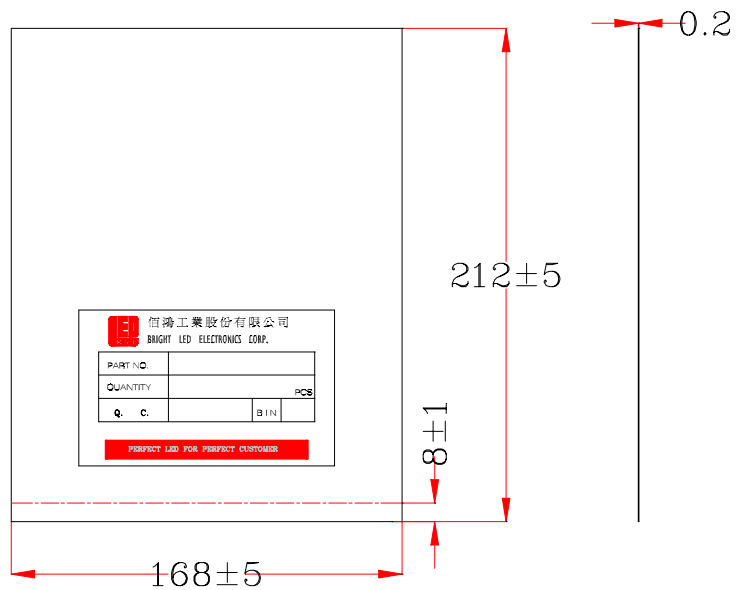
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PACKAGING BOX DIMENSIONS:



PACKAGING BAG 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.