## BRIGHT LED ELECTRONICS CORP.

#### LED LAMPS SPECIFICATION

•COMMODITY: T-1 Flangeless, 1.0"Lead 2.9  $\phi$ 

●DEVICE NUMBER: BL-B21V1V VERSION: 1.0

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

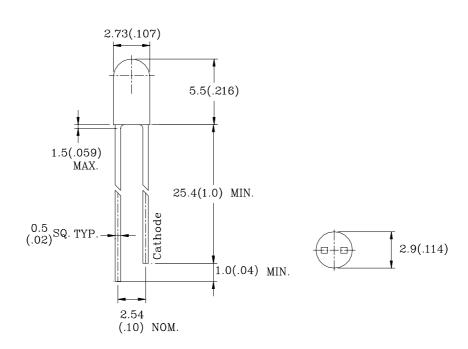
Chip			Absolute Maximum			Electro-optical			Viewing	
	Peak	Lens		Rat	ing		Data (At 20mA)		Angle	
Emitted	Wave		Δλ	Pd	If	Peak	Vf(V)		Iv Typ.	2 <i>θ</i> 1/2
Color	Length $\lambda P(nm)$	Appearance	(nm)	(mW)	(mA)	If(mA)	Тур.	Max.	(mcd)	(deg)
Green	568	Green Diffused	30	80	30	150	2.2	2.6	20	45

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)

Reverse Voltage		5V
Reverse Current (V <sub>R</sub> =5V)		
Operating Temperature Range		
Storage Temperature Range	40°C ~ 85°	$^{\circ}$ C
Lead Soldering Temperature	260°C For 5 Secon	ıds

#### ●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.

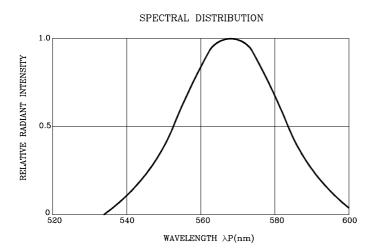
# BRIGHT LED ELECTRONICS CORP.

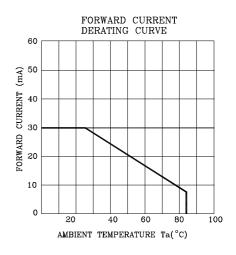
### LED LAMPS SPECIFICATION

•COMMODITY: T-1 Flangeless, 1.0"Lead 2.9  $\phi$ 

●DEVICE NUMBER: BL-B21V1V

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

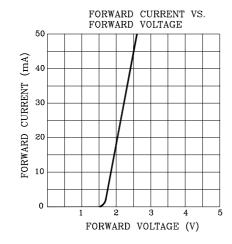


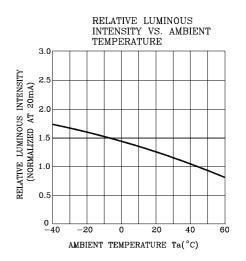


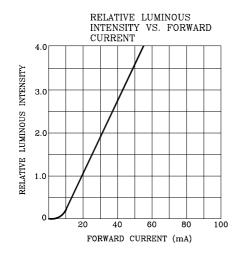
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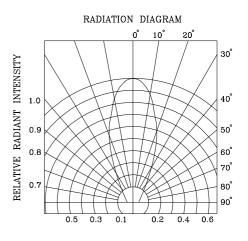
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**VERSION: 1.0** 









# BRIGHT LED ELECTRONICS CORP.

# LED LAMPS SPECICATION 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 If=10mA 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°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
Environmental Text	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
	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	$V_{\mathrm{F}}$	If=10mA	Over Ux1.2	
Reverse current	Ir	Vr=5V	Over Ux2	
Luminous intensity	Iv	If=10mA	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.