



BRIGHT LED ELECTRONICS CORP.

LED LAMPS SPECIFICATION

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REVISION: 1.0

●COMMODITY : T-1 3/4 Standard 1.0"Lead, 5 ϕ LED LAMP

●DEVICE NUMBER : BL-B5134-FA7.5-TBF24C

SHEET DATE	1	2	3	4	5						CONTENTS
2001.11.27	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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APPROVED	DRAWN

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

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●DEVICE NUMBER : BL-B5134-FA7.5-TBF24C

VERSION : 1.0

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

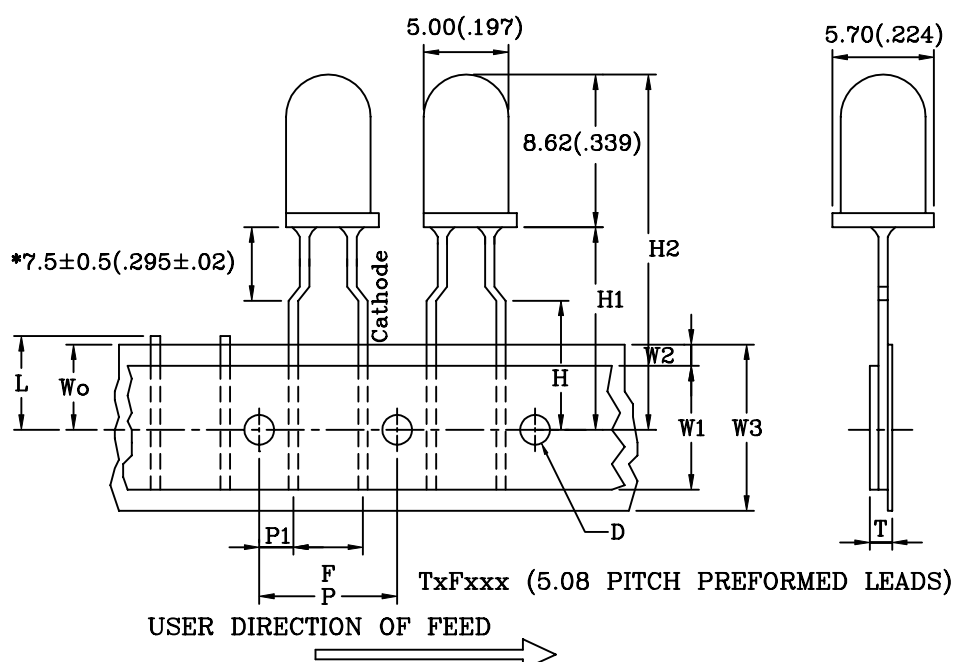
Chip		Lens Appearance	Absolute Maximum Rating				Electro-optical Data (At 20mA)			Viewing Angle 2 θ 1/2 (deg)
Emitted Color	Peak Wave Length λ P(nm)		Δ λ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vf(V)		Iv Typ. (mcd)	
							Typ.	Max.		
Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	12.0	35

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 (-Vr=5V)	100 μ A
Operating Temperature Range	-40°C ~ 80°C
Storage Temperature Range	-40°C ~ 85°C
Lead Soldering Temperature	260°C For 5 Seconds

●PACKAGE DIMENSIONS



H1-----	24.0(.945)±0.5
H2----	31.6(1.24) Max.
L-----	11.0(.433) Max.
W0-----	9.0(.35)
P1-----	5.0(.196)
F-----	2.54(.10)
P-----	12.7(.50)
D-----	ø4.0(.157)
W1-----	13.0(.51)
W2----	4.0(.157) Max.
W3-----	18.0(.708)
T-----	1.42(.055) Max.

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

2.Tolerance is ± 0.25 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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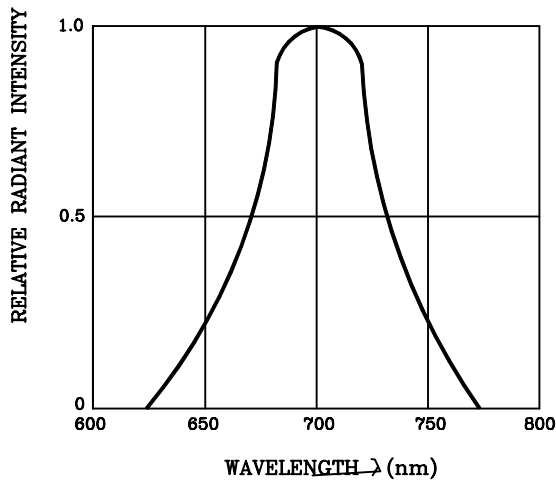
●DEVICE NUMBER: BL-B5134-FA7.5-TBF24C

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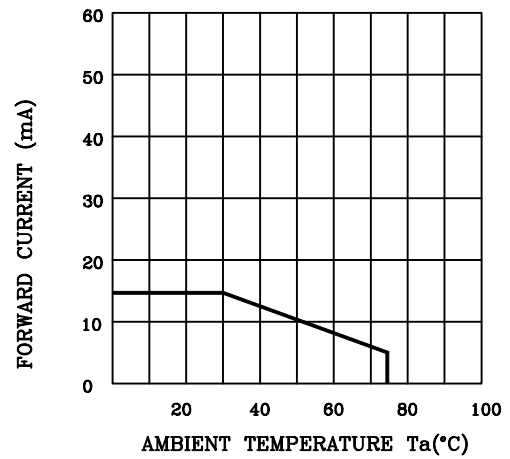
●ELECTRICAL AND OPTICAL CHARACTERISTICS(Ta=25°C)

REVISION: 1.0

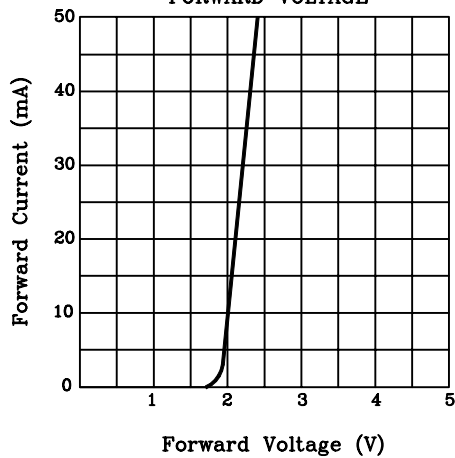
SPECTRAL DISTRIBUTION



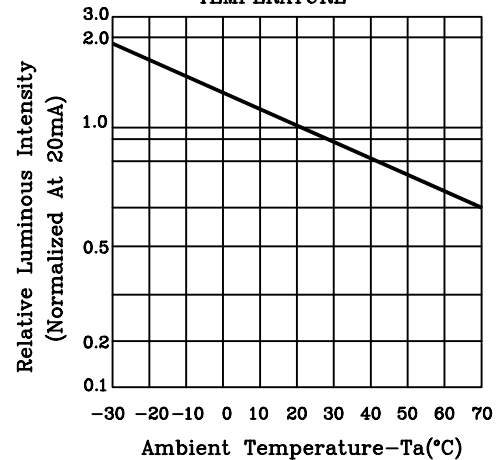
FORWARD CURRENT
DERATING CURVE



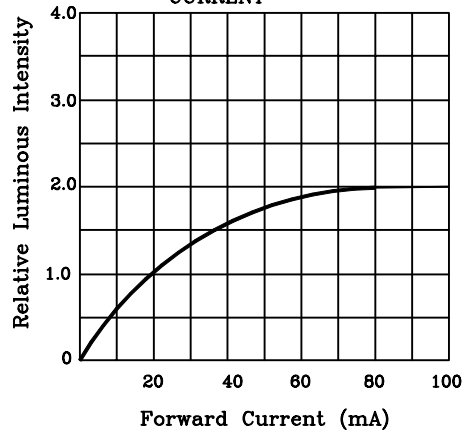
FORWARD CURRENT VS.
FORWARD VOLTAGE



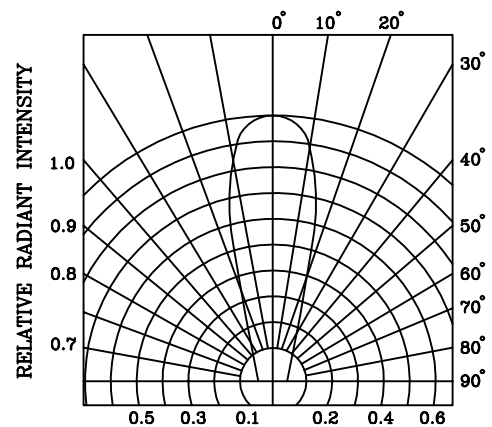
RELATIVE RADIANT
INTENSITY VS. AMBIENT
TEMPERATURE



RELATIVE RADIANT
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 If=30mA 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=1,000hrs	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 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 30min 5min 30min 5min Test Time=10cycle	0/100
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	105°C±5°C ~ -55°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=10±1sec.	0/50
	Solderability	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	VF	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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BOX TYPE:

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ITEM	SYMBOL	SPECIFICATION			
		Minimum		Maximum	
		mm	inch	mm	inch
Overall Length	L	325.00	12.80	340.00	13.40
Overall Width	W	245.00	9.65	276.00	10.87
Overall Thickness	H	50.00	1.97	60.00	2.36

