



# American Opto Plus LED Corp.

## L314LBD

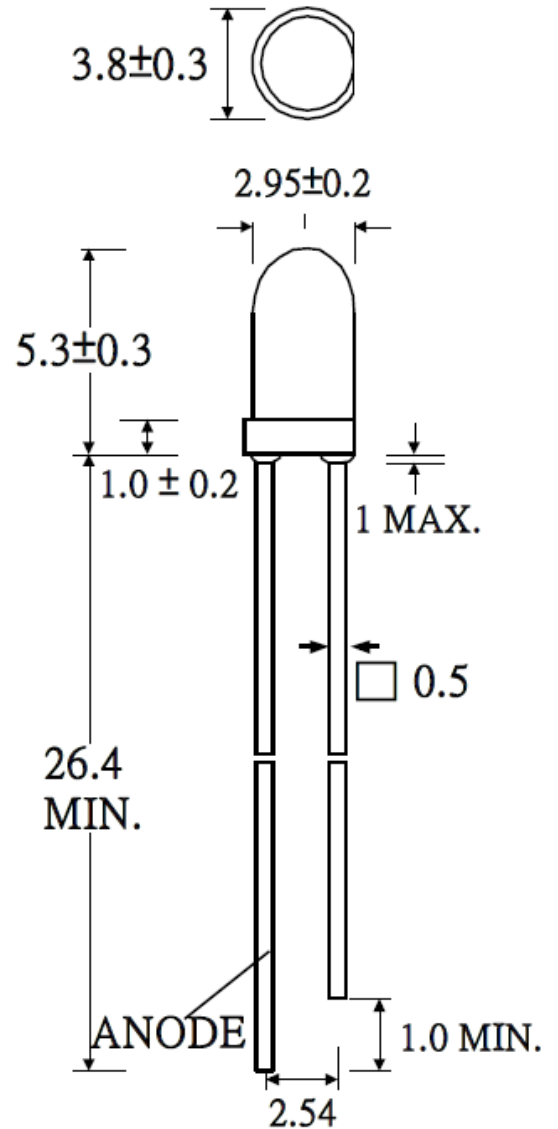
### 3mm Blue LED Lamp

#### DESCRIPTION

- Super bright LED Lamp
- Round Type
- T-1 3mm Diameter
- Lens Color: Blue Diffused
- With Flange
- Solder leads without standoffs
- Compliant with RoHS

#### FEATURES

- Emitted Color: Blue
- High Luminous intensity
- Technology: InGaN
- Peak wavelength  $\lambda_p = 468\text{nm}$
- Viewing Angle:  $60^\circ$



#### NOTES:

1. All dimensions are in millimeters tolerance is  $\pm 0.25\text{mm}$  unless otherwise noted;

Part Number	Material	Lens Color	
		Emitted	Lens
L314LBD	InGaN	Blue	Blue Diffused



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#### ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Peak Forward Current Duty 1/10 @ 10KHz	$I_{FP}$	120	mA
Reverse Voltage	$V_R$	5.0	V
Power Dissipation	$P_D$	100	mW
Operating temperature range	$T_{opr}$	-40~+85	°C
Storage temperature range	$T_{stg}$	-40~+100	°C

Soldering: 1.6mm from body for 3 second at 260°C

#### OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	$I_R$	$V_R=5V$	--	--	10	$\mu A$
Forward Voltage	$V_F$	$I_F=20mA$	-	3.2	3.8	V
Luminous Intensity	$I_V$		800	1200	--	mcd
Peak Wavelength	$\lambda_P$		--	468	--	nm
Spectral Half-width	$\Delta\lambda$		--	30	--	nm
Dominant Wavelength	$\lambda_D$		--	470	--	nm
Viewing Angle	$2\theta_{1/2}$		--	60	--	deg

Note:

1. Tolerance of Viewing Angle: -10/+5 deg

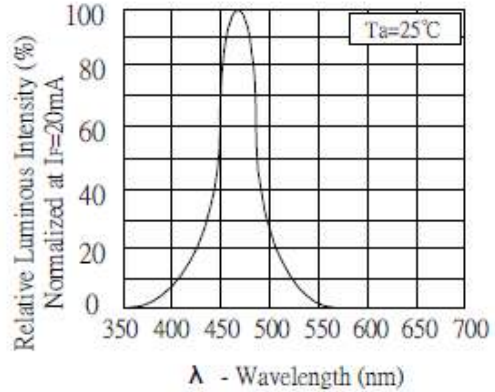
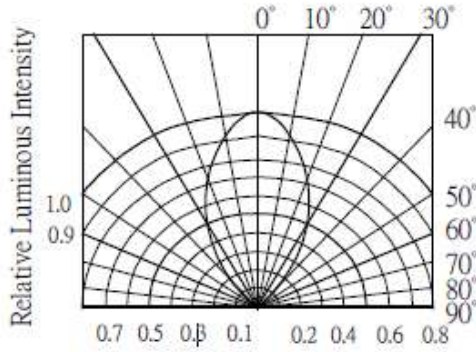


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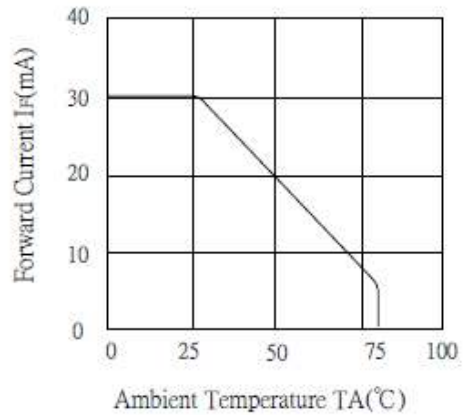
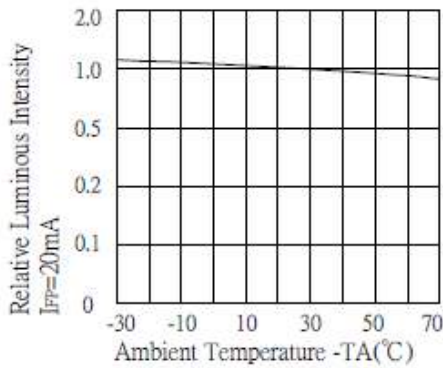
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#### TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVE



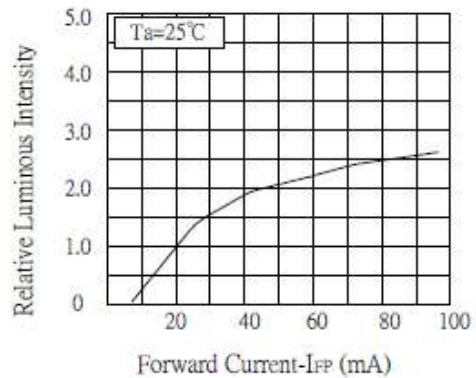
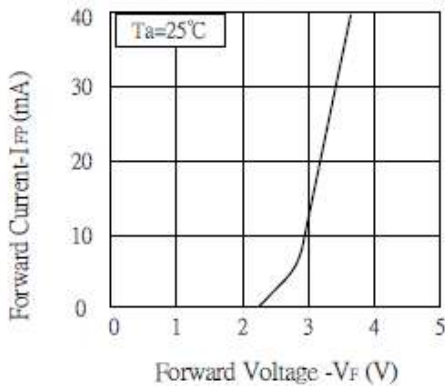
**RADIATION DIAGRAM**

**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**

**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**

**LUMINOUS INTENSITY Vs. FORWARD CURRENT**