



American Opto Plus LED Corp.

L314LBD

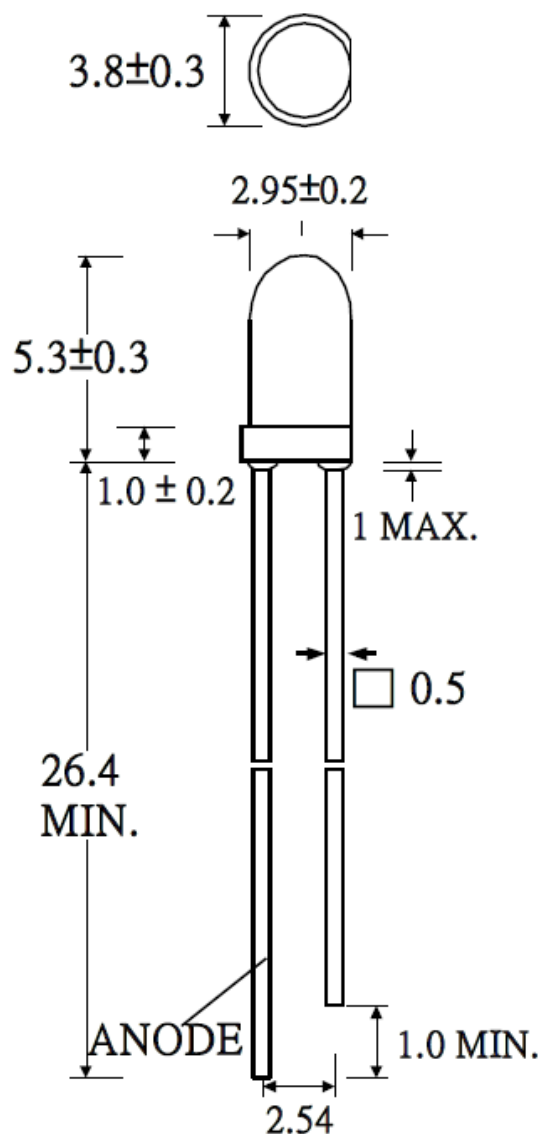
3mm Blue LED Lamp

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°



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	μA
Forward Voltage	V_F	$I_F=20mA$	-	3.2	3.8	V
Luminous Intensity	I_V		800	1200	--	mcd
Peak Wavelength	λ_P		--	468	--	nm
Spectral Half-width	$\Delta\lambda$		--	30	--	nm
Dominant Wavelength	λ_D		--	470	--	nm
Viewing Angle	$2\theta_{1/2}$		--	60	--	deg

Note:

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

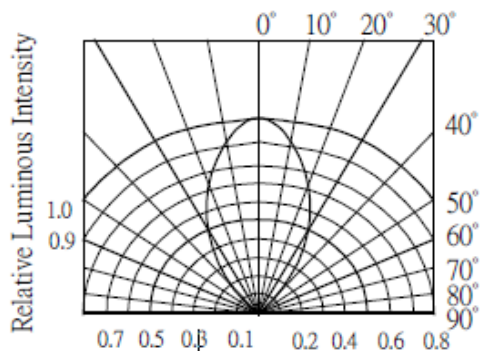


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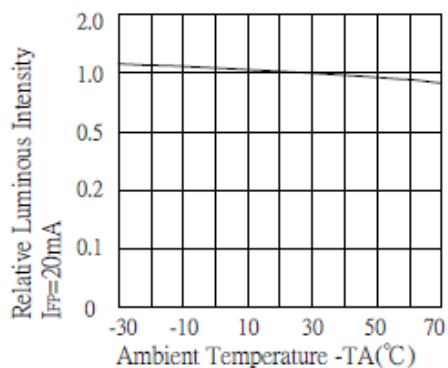
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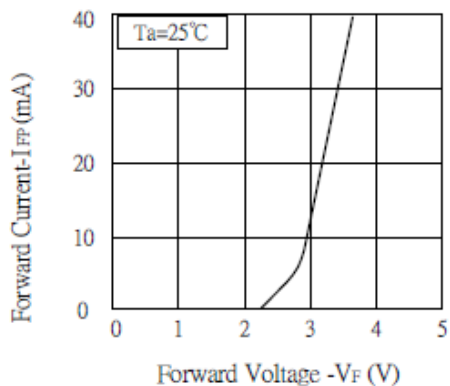
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVE



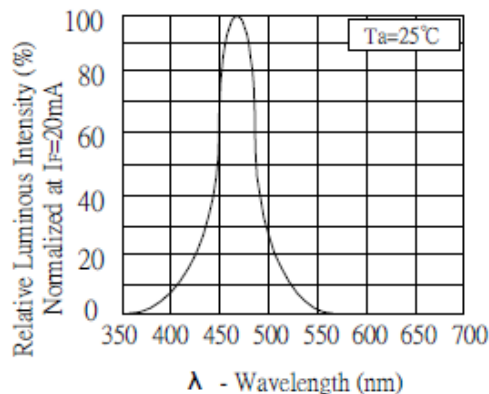
RADIATION DIAGRAM



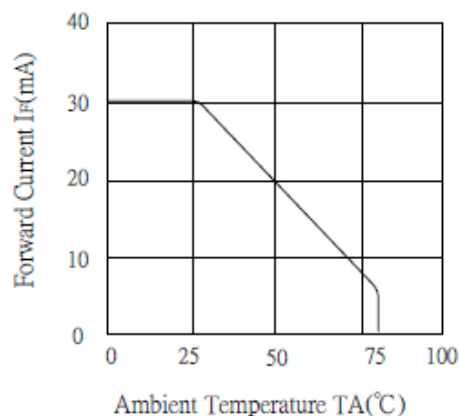
**LUMINOUS INTENSITY
Vs. AMBIENT TEMPERATURE**



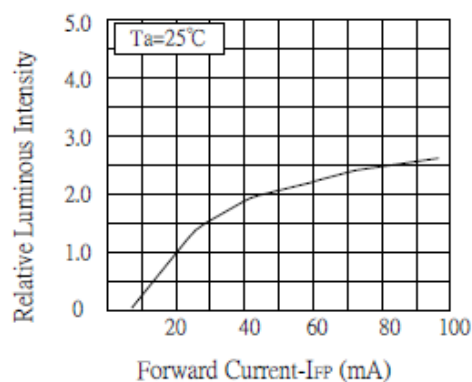
**FORWARD CURRENT
Vs. FORWARD VOLTAGE**



**RELATIVE LUMINOUS INTENSITY
Vs. WAVELENGTH**



**MAX FORWARD CURRENT
Vs. AMBIENT TEMPERATURE**



**LUMINOUS INTENSITY
Vs. FORWARD CURRENT**