



American Opto Plus LED Corp.

L354NPGC-30D

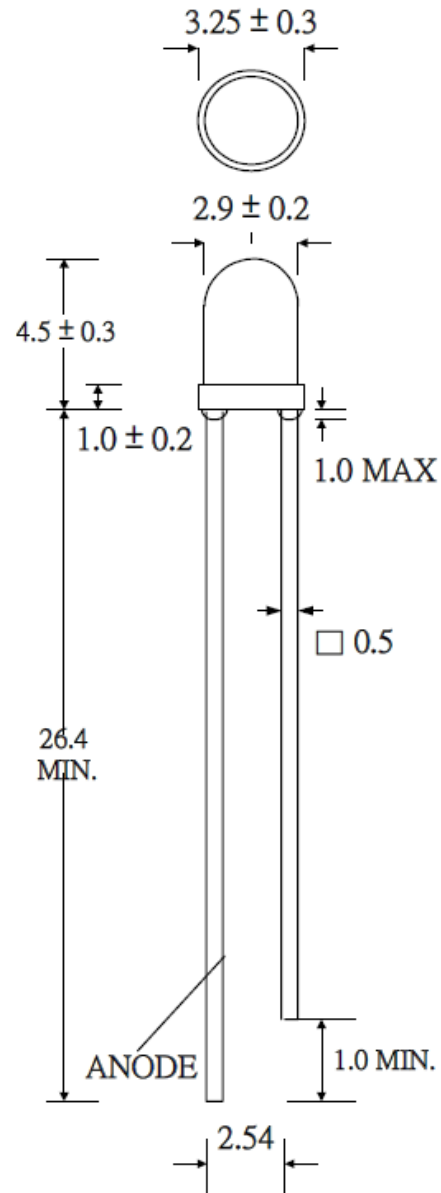
3mm PURE GREEN LED Lamp

DESCRIPTION

- Round Type
- 3mm Diameter
- Lens Color: Water Clear
- With Flange
- Solder leads without stand-off

FEATURES

- Emitted Color: Pure Green
- High Luminous Intensity
- Technology: InGaN
- Peak Wavelength: $\lambda_P = 520\text{nm}$
- Viewing Angle: 30°



Notes:

1. All dimensions are in millimeters.
2. Lead Spacing is measured where the lead emerge from the package.

Part Number	Material	Lens Color	
		Emitted	Lens
L354NPGC-30D	InGaN	Pure Green	Water Clear



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ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	120	mW
Peak Forward Current (1/10 Duty Cycle @1KHz)	I_{FP}	100	mA
Reverse Voltage	V_R	5.0	V
Operating Temperature	T_{OPR}	-40~+85	°C
Storage Temperature	T_{STG}	-40~+100	°C
Solder Temperature	T_{SOL}	1.6mm from body for 3 seconds @ 260°C	

OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Luminous Intensity	I_V	$I_F = 20mA$	7000	10500	--	mcd
Forward Voltage	V_F		--	3.2	3.8	V
Viewing Angle	$2\theta_{1/2}$		--	30	--	deg
Peak Wavelength	λ_P		--	520	--	nm
Dominant Wavelength	λ_D		--	525	--	nm
Spectrum Radiation Bandwidth	$\lambda\Delta$		--	30	--	nm
Reverse Current	I_R	$V_R=5V$	--	--	10	μA



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LUMINOUS INTENSITY GUIDE

CODE	LUMINOUS INTENSITY RANGE (mcd)	
	MIN	MAX
1	9100	12000
3	12000	15600
5	15600	20300

DOMINANT WAVELENGTH GUIDE

CODE	DOMINANT WAVELENGTH RANGE (nm)	
	MIN	MAX
E	520	523
F	523	526
G	526	530

FORWARD VOLTAGE GUIDE

CODE	FORWARD VOLTAGE RANGE (V)	
	MIN	MAX
R	2.7	3.0
X	3.0	3.3
Y	3.3	3.6

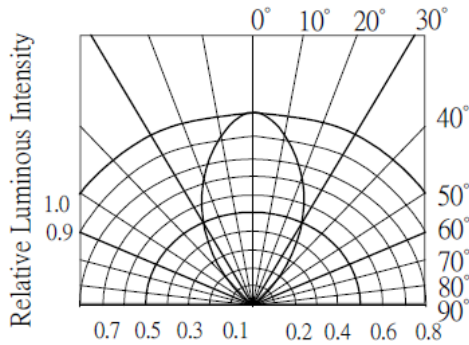


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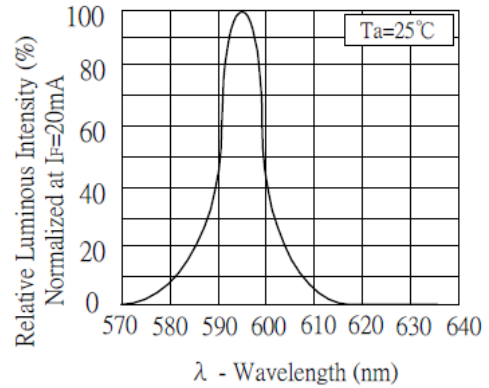
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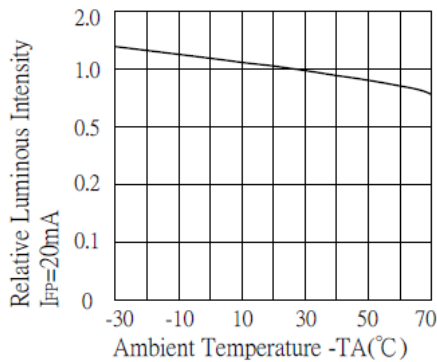
TYPICAL ELECTRICAL-OPTICAL CHARACTERISTIC CURVES



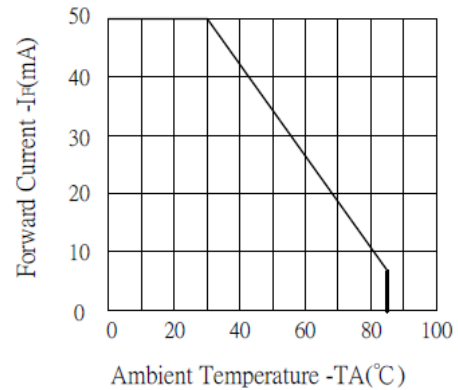
RADIATION DIAGRAM



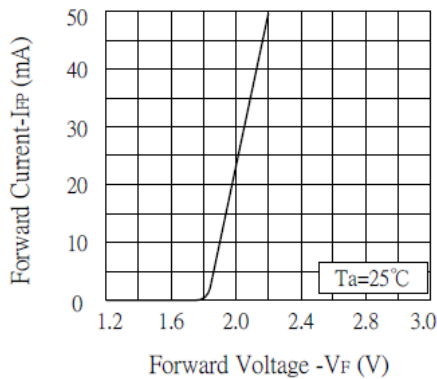
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

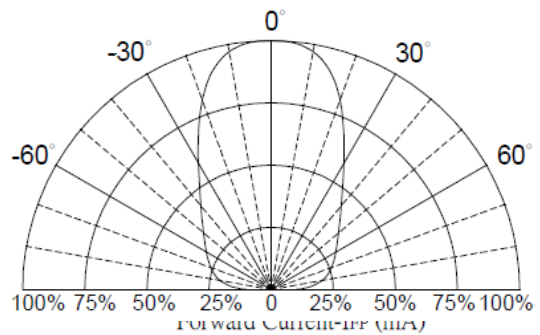


MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE

Directivity Radiation



LUMINOUS INTENSITY Vs. FORWARD CURRENT