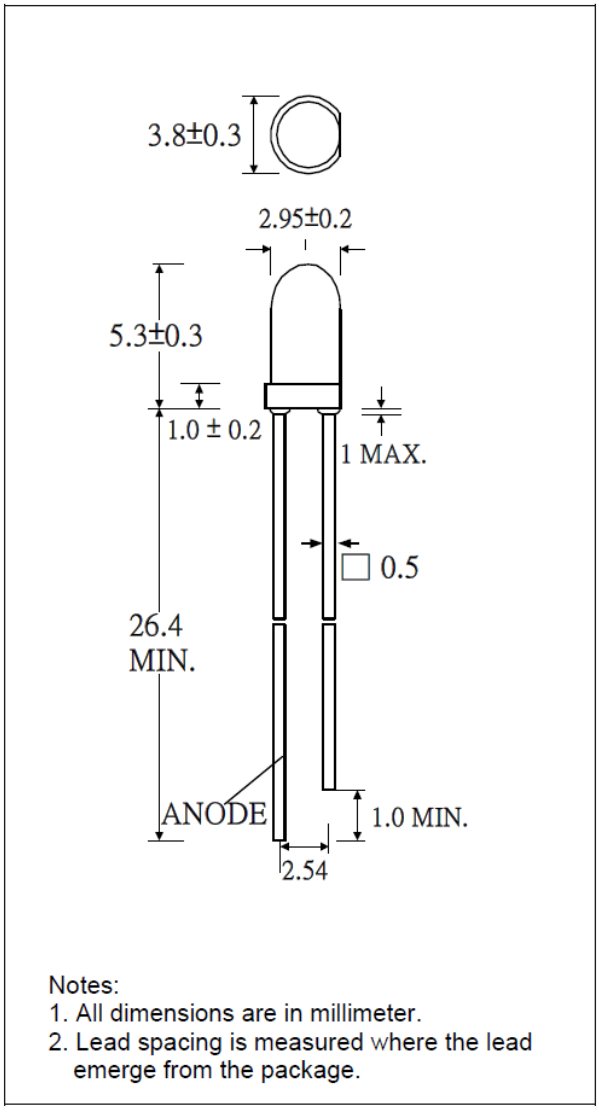
# American Opto Plus LED Corp.

# L314NPGC-15D

**3mm Dia LED LAMP - WATER CLEAR**

## DESCRIPTION

- Super bright LED lamp
- Round type
- T1 (3mm) diameter
- Lens color: Water clear
- With flange
- Solder leads without stand-off




Notes:
1. All dimensions are in millimeter.
2. Lead spacing is measured where the lead emerge from the package.

## FEATURES

- Emitted color: Super Green
- High luminous intensity
- Technology: InGaN
- Peak wavelength λp = 528nm
- Viewing angle: 20°

## SELECTION GUIDE

| Chip Material | Chip Emitted | Lens Color | Viewing Angle |
|---|---|---|---|
| InGaN | Super Green | Water Clear | 20° |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## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Reverse voltage | Vr | 5 | V |
| Power dissipation | Pd | 120 | mW |
| Operating temperature range | Top | -40~+85 | °C |
| Storage temperature range | Tstg | -40~+100 | °C |
| Peak pulsing current (1/10 duty f=1kHz) | Ifp | 100 | mA |
| Lead Soldering Temperature | Tsol | 260°C For 3 sec (1.6mm from body) | |

## OPTICAL-ELECTRICAL CHARACTERISTICS (Ta=25°C)

| Parameter | Symbol | Test Condition | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Luminous Intensity | Iv | $I_F$ = 20mA | 3800 | 5500 | -- | mcd |
| Forward Voltage | Vf | $I_F$ = 20mA | -- | 3.2 | 3.8 | V |
| Reverse current | Ir | Vr=5V | -- | -- | 10 | μA |
| Wavelength at peak emission | λp | $I_F$ = 20mA | -- | 528 | -- | nm |
| Dominant wavelength | Λ dom | $I_F$ = 20mA | -- | 525 | -- | Nm |
| Spectral Bandwidth | Δλ | $I_F$ = 20mA | -- | 30 | -- | nm |
| Viewing angle at 50% Iv | 2Θ ½ | $I_F$ = 20mA | -- | 20 | -- | Deg |

*Note: Luminous intensity tolerance is ±10%.


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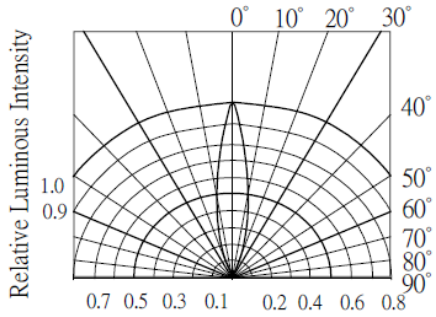
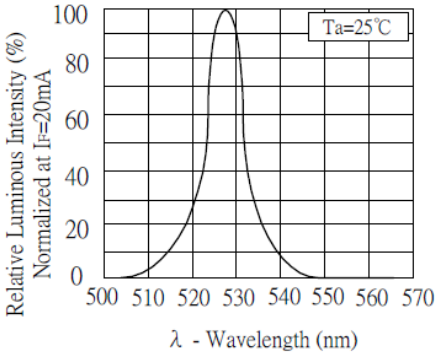
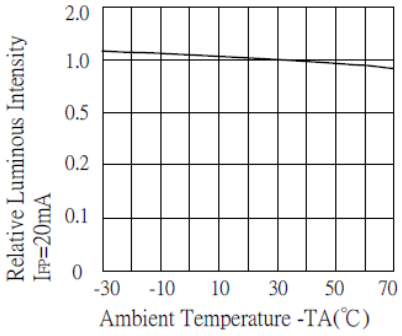
## TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



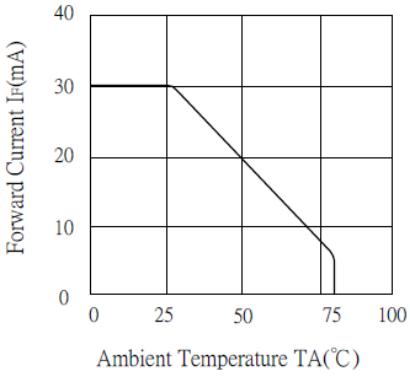

**RADIATION DIAGRAM**



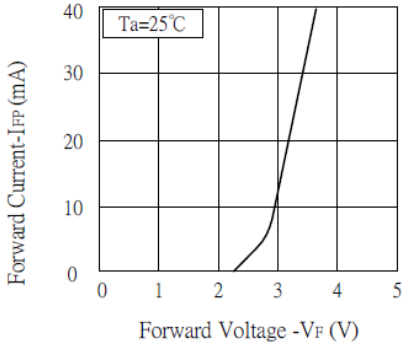

**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



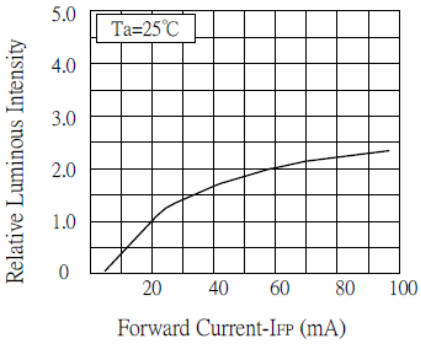

**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**




**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**




**FORWARD CURRENT Vs. FORWARD VOLTAGE**




**LUMINOUS INTENSITY Vs. FORWARD CURRENT**



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