American Opto Plus LED Corp.

L314SUVC-410

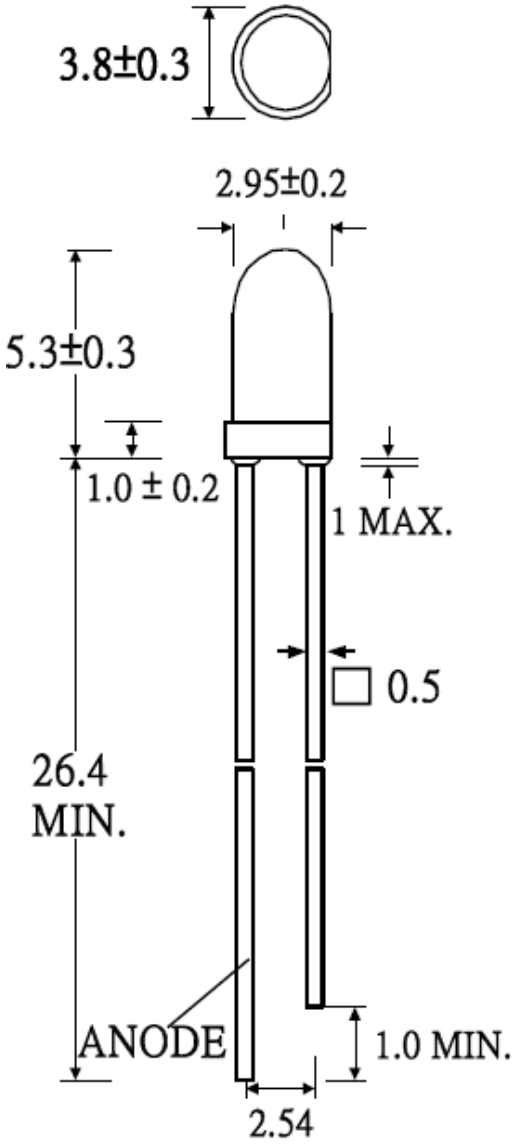
3mm Ultraviolet LED

DESCRIPTION

- Super Bright LED Lamp
- Round Type
- 3mm Diameter
- Lens Color: Water Clear
- With Flange
- Solder leads without standoff

FEATURES

- Emitted Color: Ultraviolet
- High Luminous Intensity
- Technology: InGaN/SiC
- Peak Wavelength λ_P = 410nm
- Viewing Angle: 30°



NOTES:

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

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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

OPTICAL-ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Luminous Intensity	I_V	I_F=20mA	200	300	--	mcd
Forward Voltage	V_F	I_F=20mA	--	3.2	3.8	V
Reverse Current	I_R	V_R=5V	--	--	10	μA
Viewing angle	2Θ ½	I_F=20mA	--	30	--	deg
Peak Wavelength	λ_P	I_F=20mA	405	410	451	nm
Spectral Radiation Bandwidth	Δλ	I_F=20mA	--	30	--	nm

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

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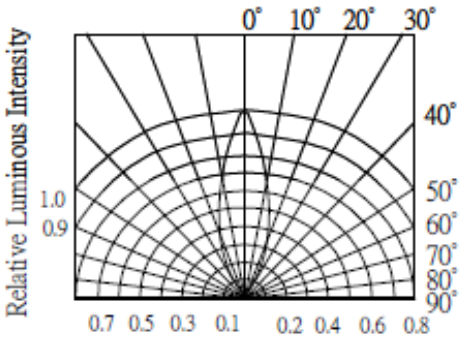
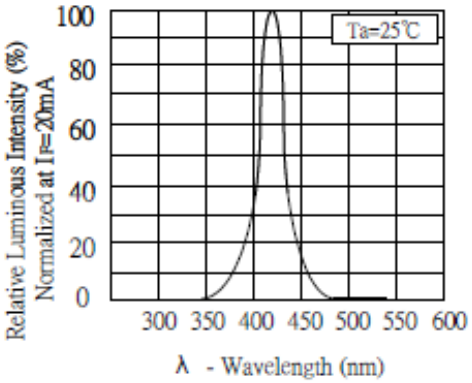
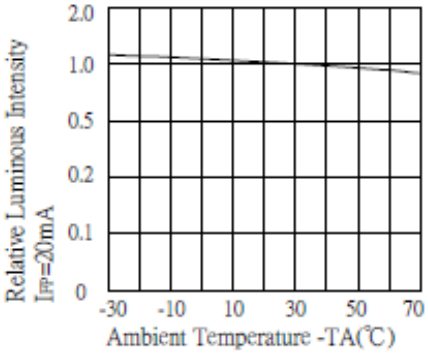
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



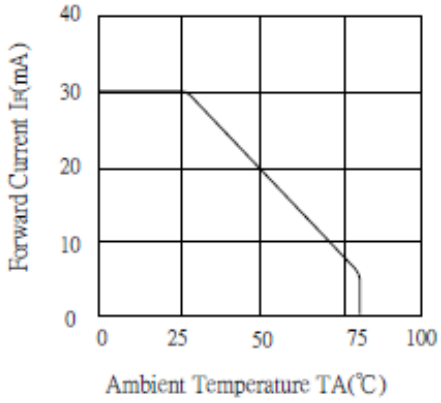
RADIATION DIAGRAM



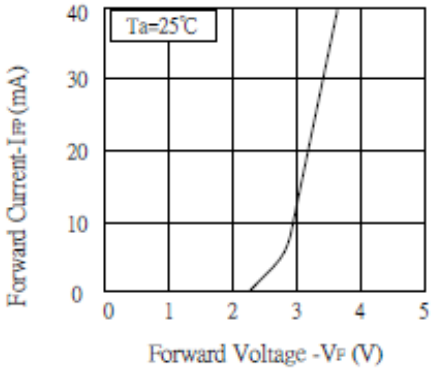
RELATIVE LUMINOUS INTENSITY
Vs. WAVELENGTH



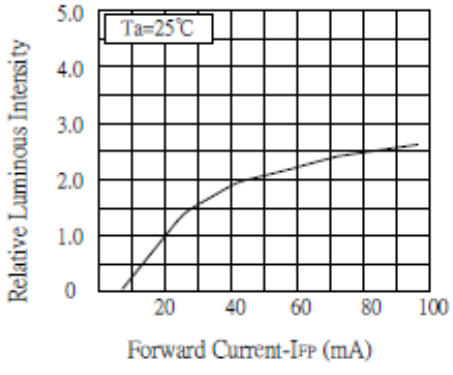
LUMINOUS INTENSITY
Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT
Vs. AMBIENT TEMPERATURE



FORWARD CURRENT
Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY
Vs. FORWARD CURRENT