



American Opto Plus LED Corp.

L513K-NUBC-20D

5mm Blue Water Clear LED Lamp

ABSOLUTE MAXIMUM RATINGS

	Symbol	Rating	Unit
Forward Current	I_F	30	mA
Peak Forward Current (Duty Cycle 1/10, Pulse width 0.1ms)	I_{FP}	60	mA
Reverse Voltage	V_R	5	V
Power Dissipation per dice	P_d	100	mW
Operating temperature	T_{opr}	-25~+85	°C
Storage temperature	T_{stg}	-30~+85	°C
Storage Humidity	--	45%-85%	RH
Solder Temperature	T_{sld}	260°C for 5 sec	--

OPTICAL-ELECTRICAL CHARACTERISTICS

($T_a=25^\circ\text{C}$)

	Symbol	Test condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	2.8	--	3.4	V
Luminous Intensity	I_v		4000	--	7000	mcd
Dominant Wavelength	λ_d		465	--	470	nm
Viewing Angle	$2\theta_{1/2}$		--	20	--	Deg
Reverse Current	I_R	$V_R=5\text{V}$	--	--	5	μA



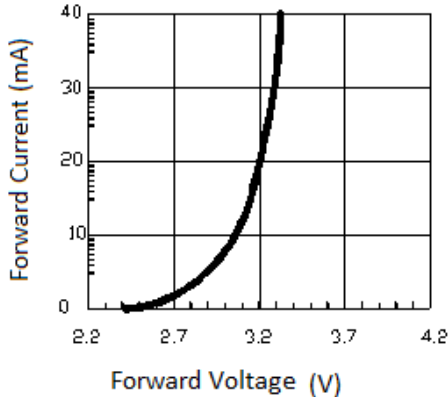
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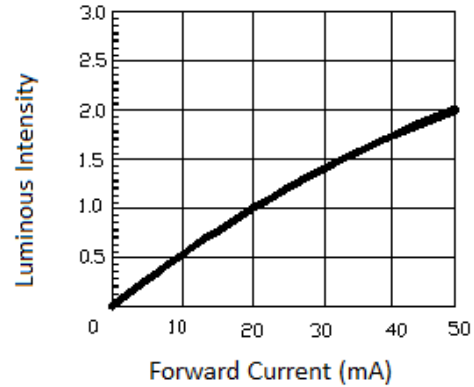
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TYPICAL ELECTRICAL-OPTICAL CHARACTERISTIC CURVES

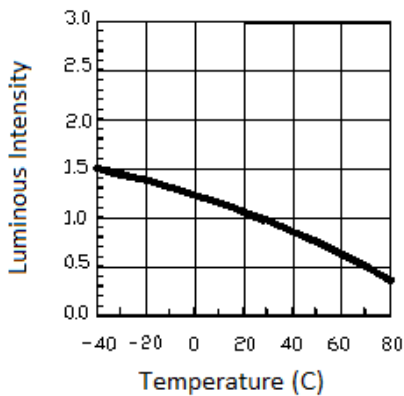
Forward Current vs Forward Voltage



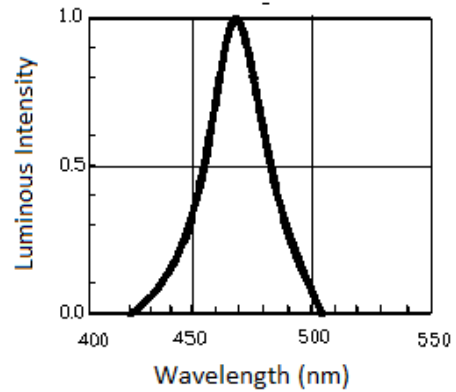
Forward Current vs Luminous Intensity



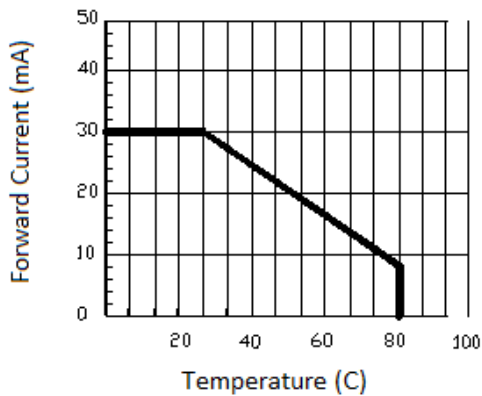
Luminous Intensity vs Ambient Temperature



Luminous Intensity vs Wavelength



Forward Current vs Ambient Temperature



Radiation Diagram

