

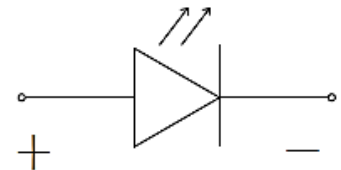
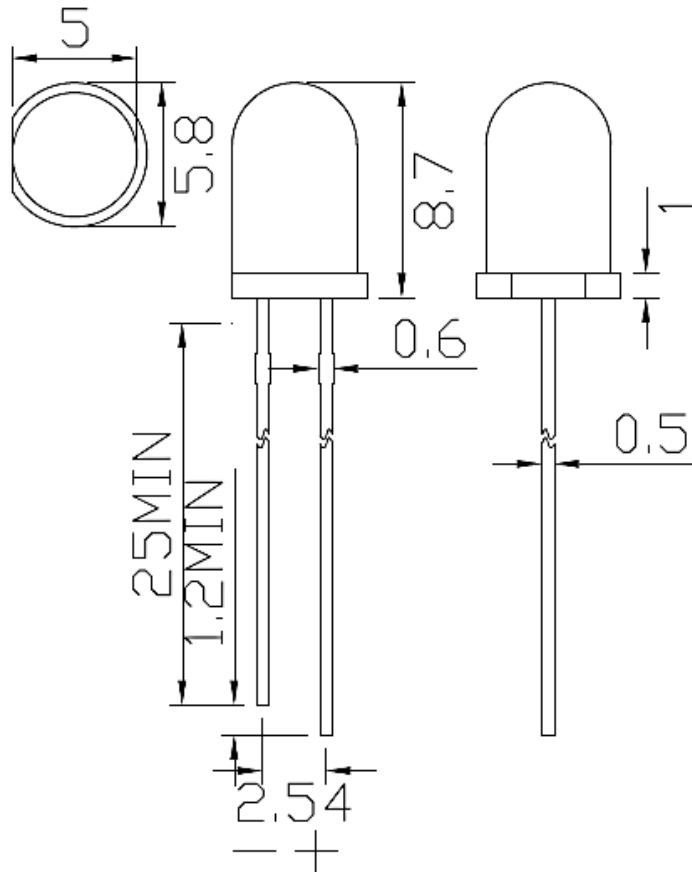


American Opto Plus LED Corp.

L513KGD

5mm Green LED Lamp

PACKAGE OUTLINES



ITEM	MATERIALS
Dice	AllnGaP
Lens Color	Green Diffused
Emitted Color	Green

Notes:

1. All dimensions are in millimeters (inches)
2. Tolerances are $\pm 0.15\text{mm}$ unless otherwise noted.



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ABSOLUTE MAXIMUM RATINGS

(Ta = 25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	60	mW
Forward Current	I _F	20	mA
Peak Forward Current (1/10 duty, cycle: 0.1ms Pulse Width)	I _{PF}	80	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{OPR}	-25 ~ +85	°C
Storage Humidity	T _{SH}	45% ~ 85%	°F
Storage Temperature Range	T _{STG}	-30 ~ +85	°C
Soldering Temperature	T _{SOL}	260°C for 3 seconds	

OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta = 25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I _V	I _F =20mA	50	--	100	mcd
Forward Voltage	V _F	I _F =20mA	1.8	--	2.4	V
Suggested Forward Current	I _F	I _F =20mA	3	5~10	20	mA
Reverse current	I _R	V _R =5V	--	--	10	μA
Dominant Wavelength	λ _D	I _F =20mA	568	--	573	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	--	40	--	deg

When using LEDs in circuits, it is recommended to limit the forward current to 5~10 mA, ≤20 mA.



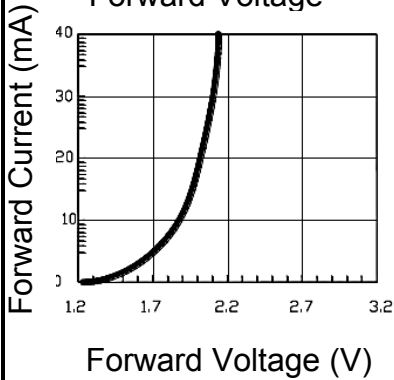
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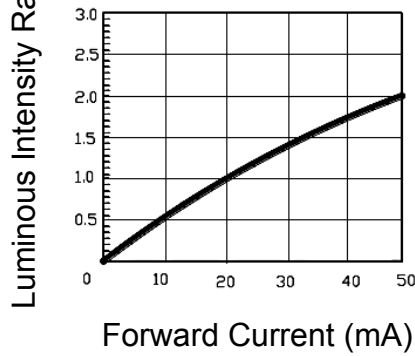
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OPTICAL CHARACTERISTIC CURVES

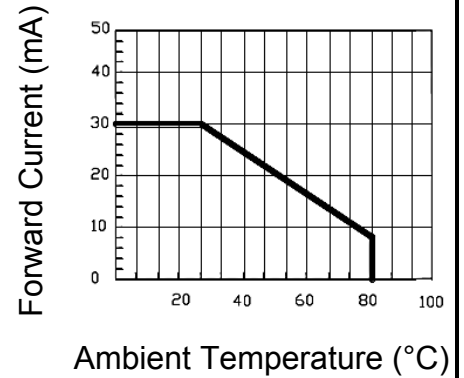
Forward Current vs. Forward Voltage



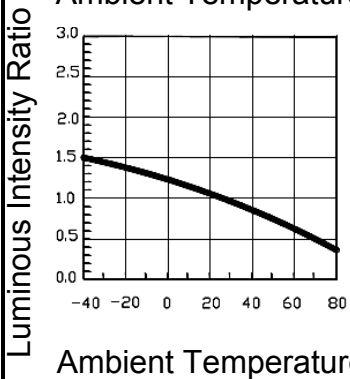
Forward Current vs. Relative Luminous Intensity



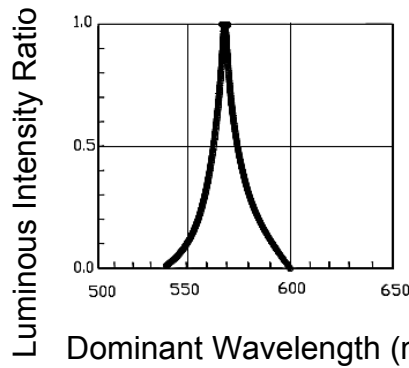
Forward Current vs. Ambient Temperature



Relative Luminous Intensity vs. Ambient Temperature



Relative Luminous Intensity vs. Main Wavelength



Radiation Diagram

