

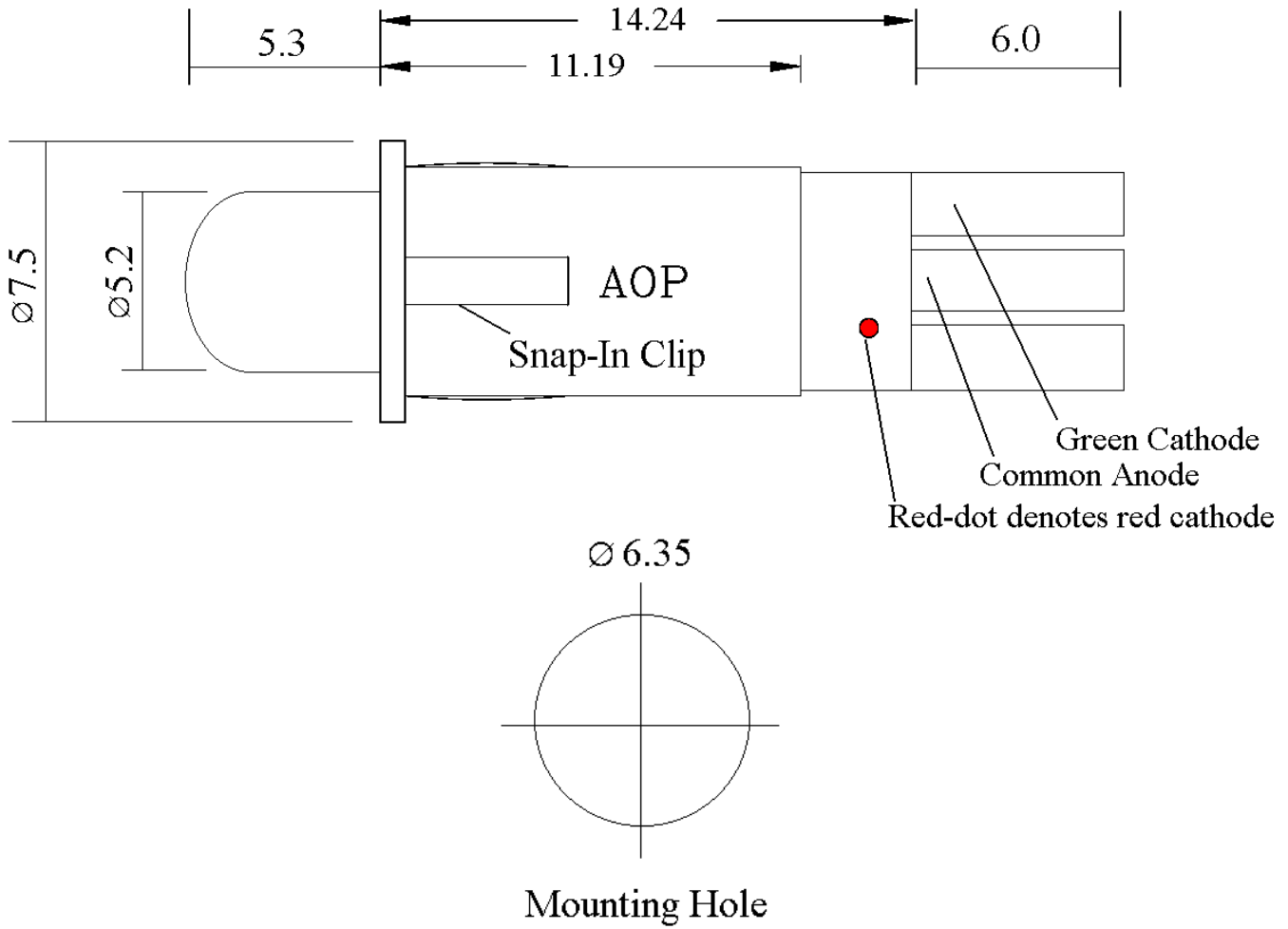


**American Opto Plus**  
**L529EGWCA-H501**  
 5mm Dia LED LAMP in H501 Holder  
 (Common Anode, Tricolor Red/Green/Yellow)

**MAIN FEATURES**

- ◆ 5.0mm DIA LED LAMP
- ◆ POPULAR T-1 3/4, 1" LEAD
- ◆ I.C. COMPATIBLE
- ◆ LOW POWER CONSUMPTION

**L529EGWCA-H501 Dimensions**



Unit = mm  
 Tolerance: ± 0.15

**SELECTION GUIDE**

Chip Material	Chip Emitted	Lens Color	Viewing Angle
GaP	Green	White Diffused	50°
GaAlAs	Super Red		



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**ABSOLUTE MAXIMUM RATINGS**

(Ta=25 °C)

PARAMETER		SYMBOL	MAX. RATING	Unit
Power Dissipation	Green	P <sub>D</sub>	80	mW
	Red		80	
Peak Forward Current (1/10 Duty Cycle@1KHz)	Green	I <sub>PF</sub>	50	mA
	Red		50	
Continuous Forward Current	Green	I <sub>AF</sub>	30	mA
	Red		30	
Reverse Voltage		V <sub>R</sub>	5.0	V
Operating Temperature Range		T <sub>OPR</sub>	-40~+85	°C
Storage Temperature Range		T <sub>STG</sub>	-40~+85	°C

Solder temperature 1.6 mm from body for 3 seconds at 230 °C

**OPTICAL-ELECTRICAL CHARACTERISTICS**

PARAMETER		SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	Green	IV	IF=20mA		6		mcd
	Red				25		
Forward Voltage	Green	VF	IF=20mA		2.1	2.6	V
	Red				1.9	2.4	
Reverse Current	Green	IR	VR=5V			10	uA
	Red					10	
Viewing Angle		2θ1/2	IF=20mA		50		deg.
Peak Wavelength	Green	λ P	IF=20mA		565		nm
	Red				660		
Dominant Wavelength	Green	λ D	IF=20mA		563		nm
	Red				645		
Spectrum Radiation Bandwidth	Green	Δ λ	IF=20mA		30		nm
	Red				25		

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



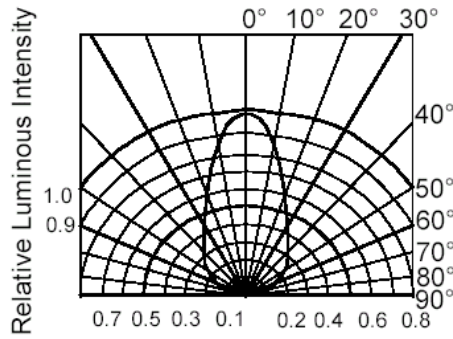
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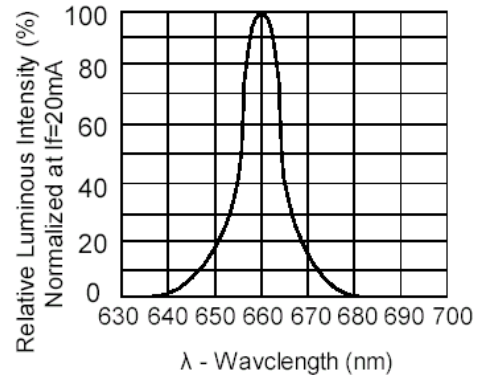
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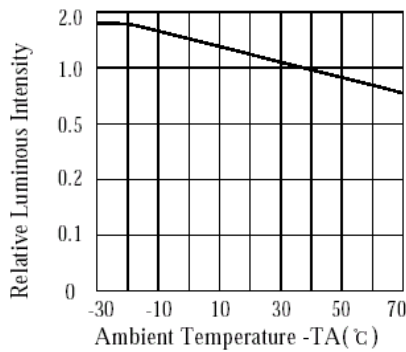
## TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



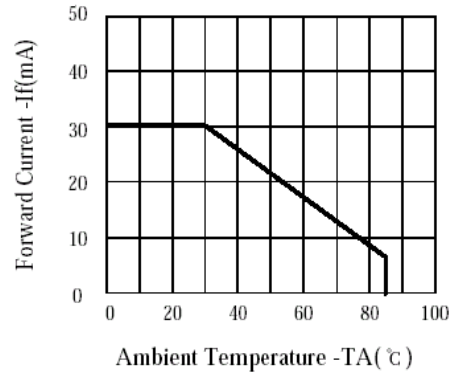
**RADIATION DIAGRAM**



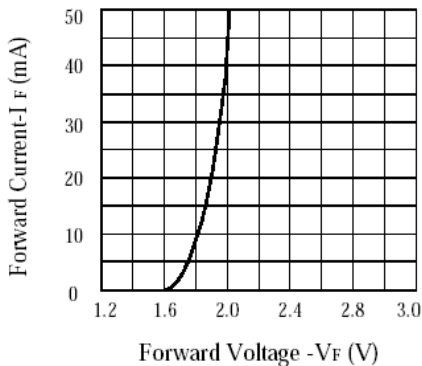
**RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH**



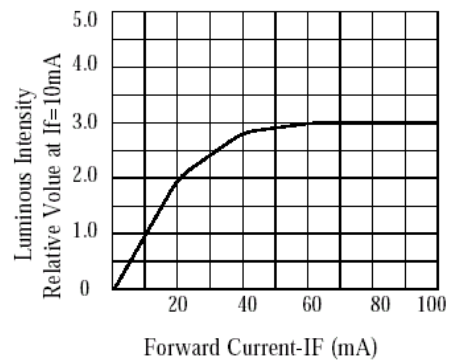
**LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE**



**FORWARD CURRENT VS. AMBIENT TEMPERATURE**



**FORWARD CURRENT VS. FORWARD VOLTAGE**



**LUMINOUS INTENSITY VS. FORWARD CURRENT**

(RED)



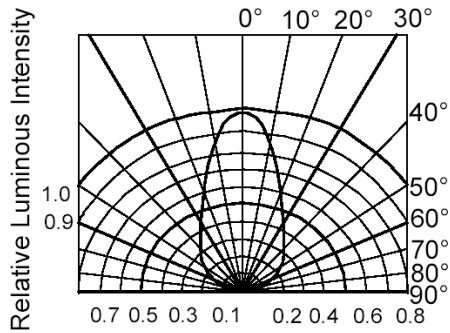
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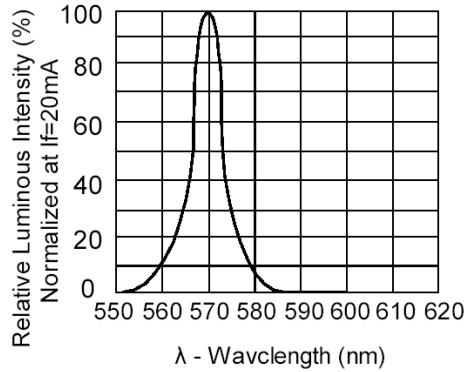
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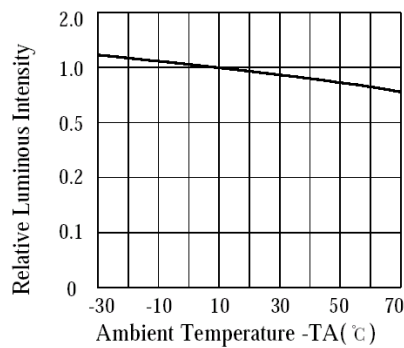
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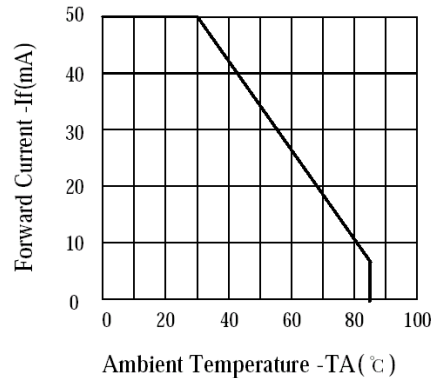
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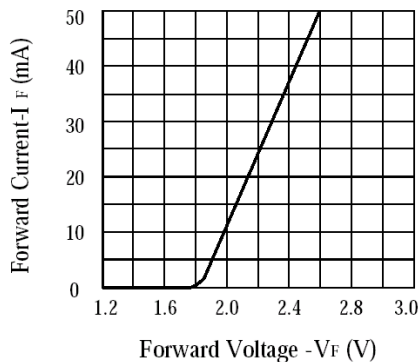
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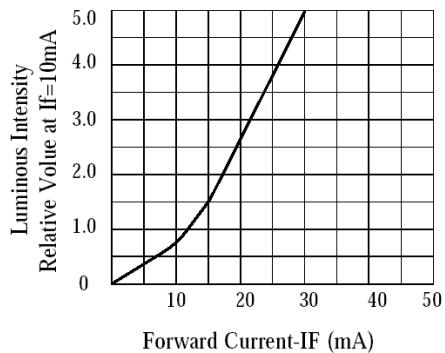
**LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE**



**FORWARD CURRENT VS. AMBIENT TEMPERATURE**



**FORWARD CURRENT VS. FORWARD VOLTAGE**



**LUMINOUS INTENSITY VS. FORWARD CURRENT**

(GREEN)



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**Other Available LED Combinations (Common Anode or Cathode)**

Part No.	Emitted Color	Lens Color	Peak Wavelength (nm)	Luminous Intensity (TYP.) (mcd)	Viewing Angle
L529EYW-H501	Red / Yellow	White diffused	635 / 585	20 / 15	50°
L529EYWCA-H501	Red / Yellow	White diffused	635 / 585	20 / 15	50°
L529GYW-H501	Green / Yellow	White diffused	565 / 585	15 / 15	50°
L529GYWCA-H501	Green / Yellow	White diffused	565 / 585	15 / 15	50°
L529SRSGW-H501	Red / Green	White diffused	660 / 565	150 / 50	50°
L529SRSGWCA-H501	Red / Green	White diffused	660 / 565	150 / 50	50°