



# American Opto Plus LED Corp.

## L317SRSGW

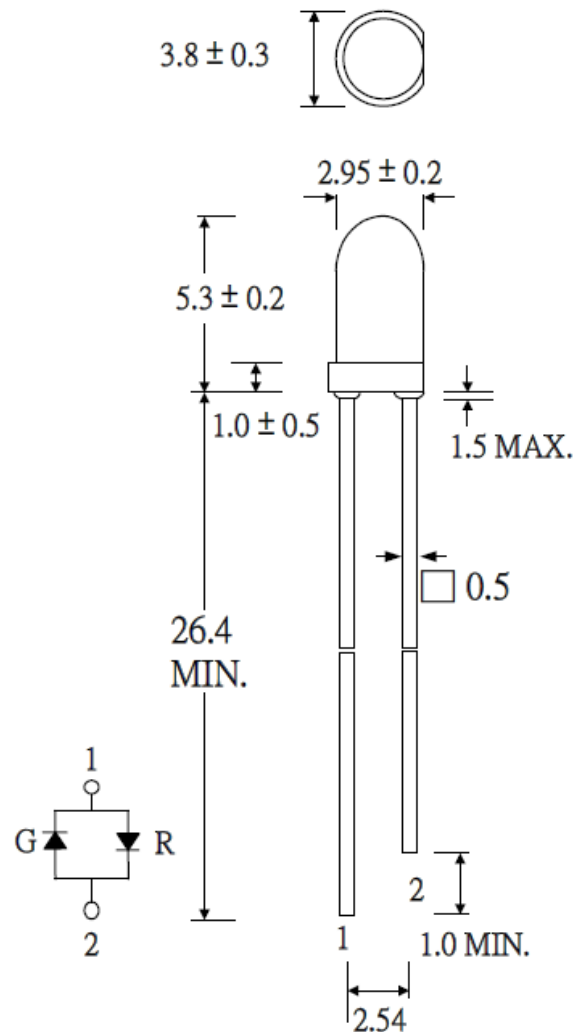
### 3mm Super Red and Green Bi-Color LED Lamp

#### DESCRIPTION

- Round Type
- 3mm Diameter
- Lens Color: White Diffused
- With Flange
- Solder leads without standoffs

#### FEATURES

- Emitted Color: Super Red/Green
- High Luminous Intensity
- Technology: GaAIAs/GaP
- Viewing Angle: 60°



#### NOTES:

1. All dimensions are in millimeters tolerance is  $\pm 0.25$  mm unless otherwise noted
2. Lead Spacing is measured where the lead emerge from the package

Part Number	Material	Lens Color	
		Emitted	Lens
L317SRSGW	GaAIAs/GaP	Super Red/Green	White Diffused



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3mm Super Red and Green Bi-Color LED Lamp

### ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Peak Pulsed Forward Current	I <sub>FP</sub>	Red: 50	mA
		Green: 50	
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>d</sub>	Red: 80	mW
		Green: 80	
Operating temperature range	Topr	-40~+85	°C
Storage temperature range	Tstg	-40~+85	°C
Solder Dipping Temperature	Tsld	230°C for 3 sec	

### OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Parameter	Symbol	Test Condition	Color	Min	Typ	Max	Unit
Luminous Intensity	I <sub>v</sub>	IF=20mA	SR	--	35	--	mcd
			G	--	6	--	
Forward Voltage	V <sub>F</sub>	IF=20mA	SR	--	1.9	2.4	V
			G	--	2.1	2.6	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	SR	--	--	10	μA
			G	--	--	10	
Peak Wavelength	λ <sub>P</sub>	IF=20mA	SR	--	660	--	nm
			G	--	568	--	
Dominant Wavelength	λ <sub>D</sub>	IF=20mA	SR	--	645	--	nm
			G	--	570	--	
Spectrum Halfwidth	Δλ	IF=20mA	SR	--	25	--	nm
			G	--	30	--	
Viewing Angle	2θ1/2	IF=20mA		--	60	--	deg

\*Note: I<sub>FP</sub> = Pulse Width ≤ 10ms, Duty Ratio ≤ 1/10

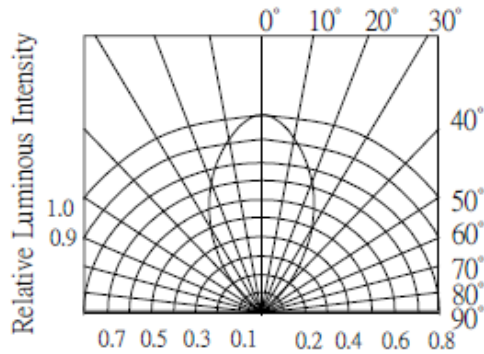


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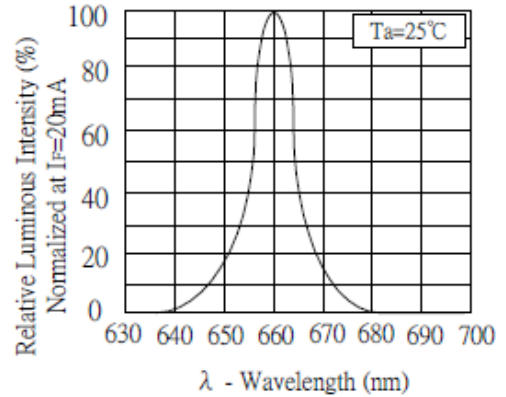
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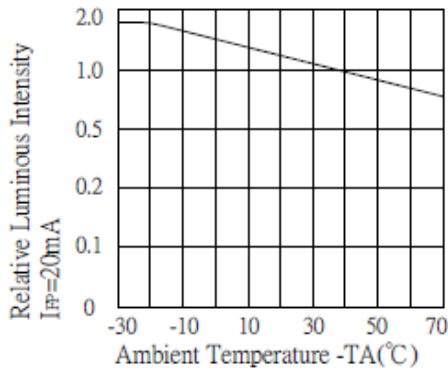
### TYPICAL ELECTRICAL-OPTICAL CHARACTERISTIC CURVES ( SUPER RED)



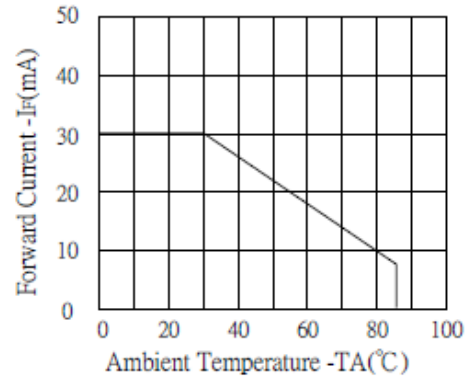
**RADIATION DIAGRAM**



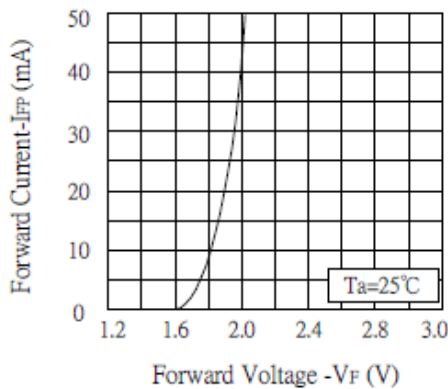
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



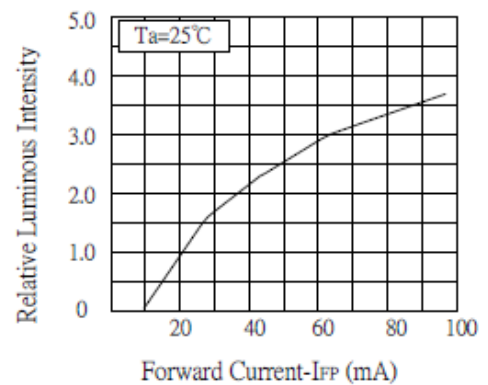
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**

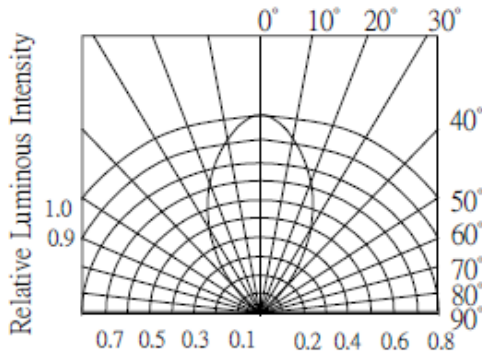


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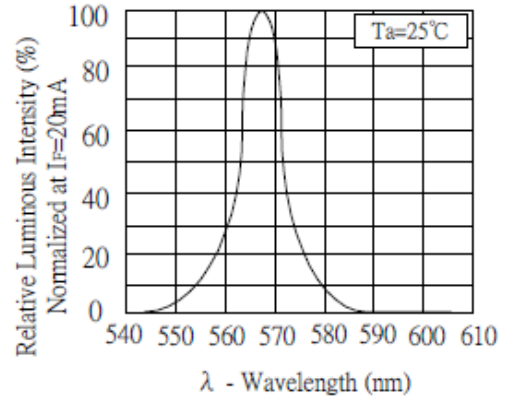
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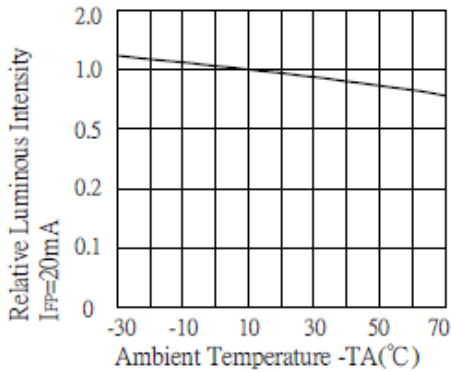
### TYPICAL ELECTRICAL-OPTICAL CHARACTERISTIC CURVES (GREEN)



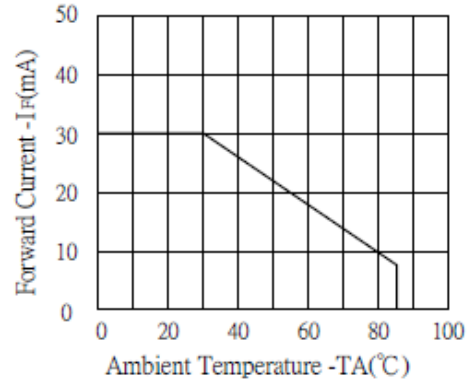
**RADIATION DIAGRAM**



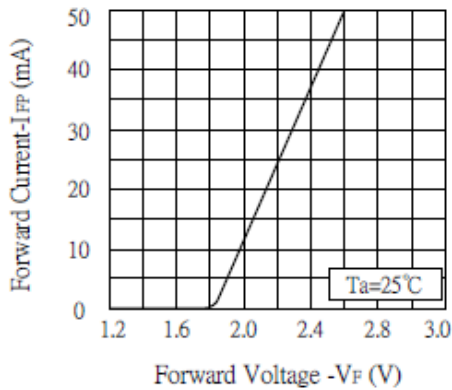
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



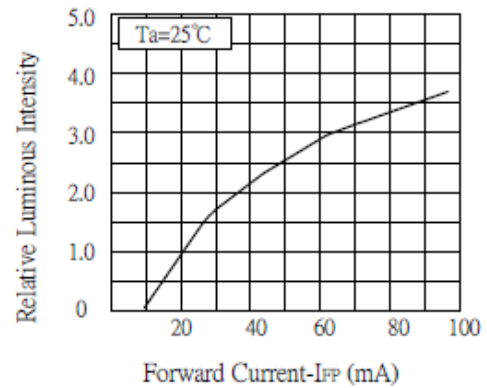
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



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**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**