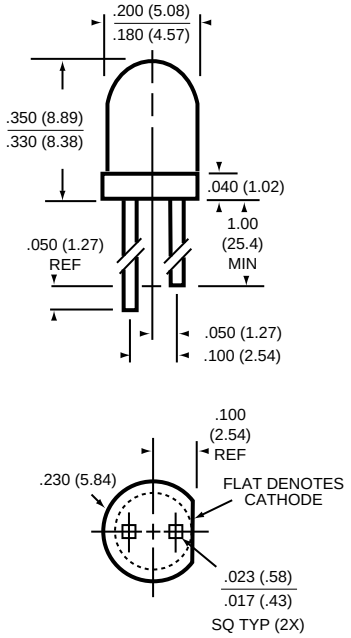
SUPER BRIGHT AlInGaP T-1 3/4 (5 mm)

LOW CURRENT LED LAMP - Tinted & Diffused

SUPER RED	**HLMP-4700L**
SUPER YELLOW	**HLMP-4719L**

PACKAGE DIMENSIONS

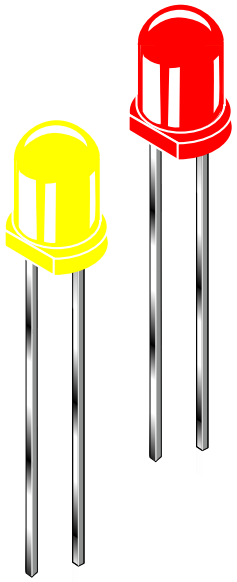


NOTES:

1. Dimensions for all drawings are in inches (mm).
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under the flange is 1.5 mm (0.059") max.

FEATURES

- Popular T-1 3/4 package with 100 mil. lead spacing
- Super high brightness at low current (2 mA)
- Solid state reliability
- Tinted and diffused
- CMOS and TTL compatible



DESCRIPTION

These T-1 3/4 super bright low current lamps have a moderate viewing angle of 35°. The HLMP-47XXL series is made with an AlInGaP LED, which delivers performance, reliability and brightness superior to that of standard products.

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Operating Temperature	T_{OPR}	-55 to +100	°C
Storage Temperature	T_{STG}	-55 to +100	°C
Lead Soldering Time	T_{SOL}	260 for 5 sec	°C
Continuous Forward Current	I_F	7.5	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I_F	150	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	25	mW

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ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Part Number	HLMP-4700L	HLMP-4719L	Condition
Luminous Intensity (mcd)			I_F = 2 mA
Minimum	5	6	
Typical	8	10	
Forward Voltage (V)			I_F = 2 mA
Maximum	2.4	2.4	
Typical	2.0	2.0	
Wavelength (nm)			I_F = 2 mA
Peak	640	590	
Dominant	631	589	
Spectral Line Half Width (nm)	20	15	I_F = 2 mA
Viewing Angle (°)	35	35	I_F = 2 mA

TYPICAL PERFORMANCE CURVES

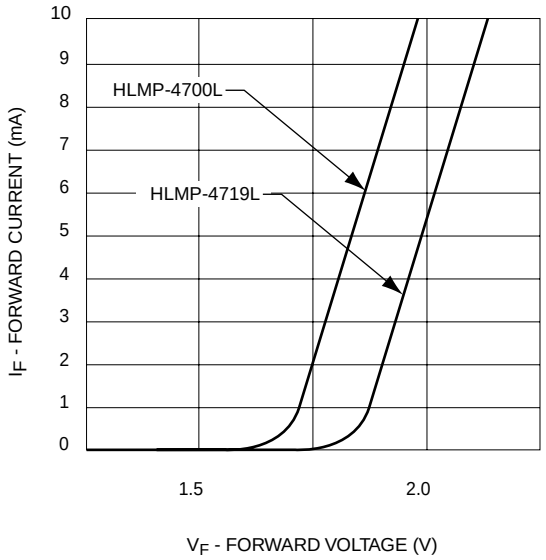


Fig. 1 Forward Current vs. Forward Voltage

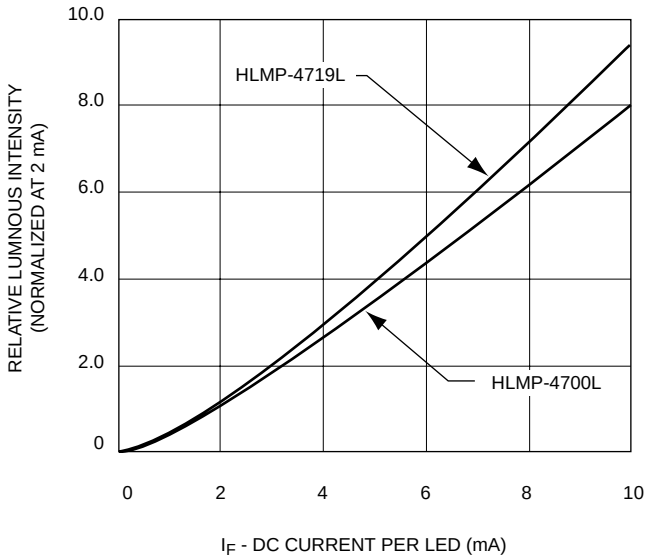


Fig. 2 Relative Luminous Intensity vs. Forward Current

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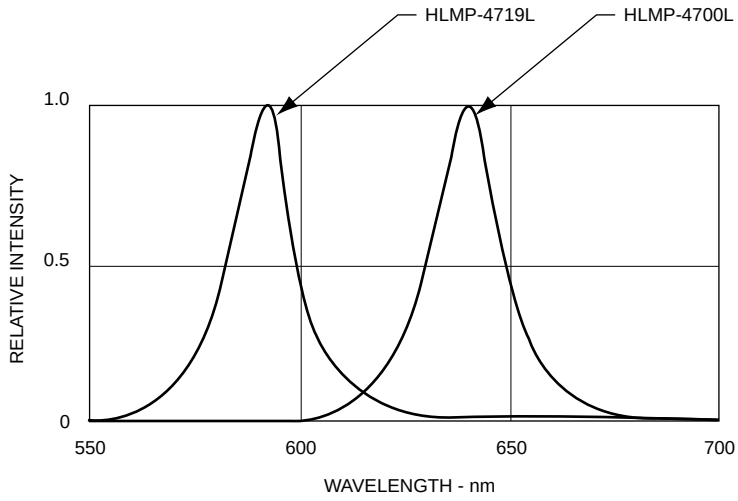


Fig. 3 Relative Intensity vs Peak Wavelength

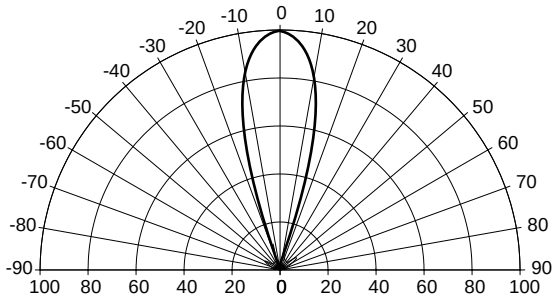


Fig. 4 Radiation Diagram

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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