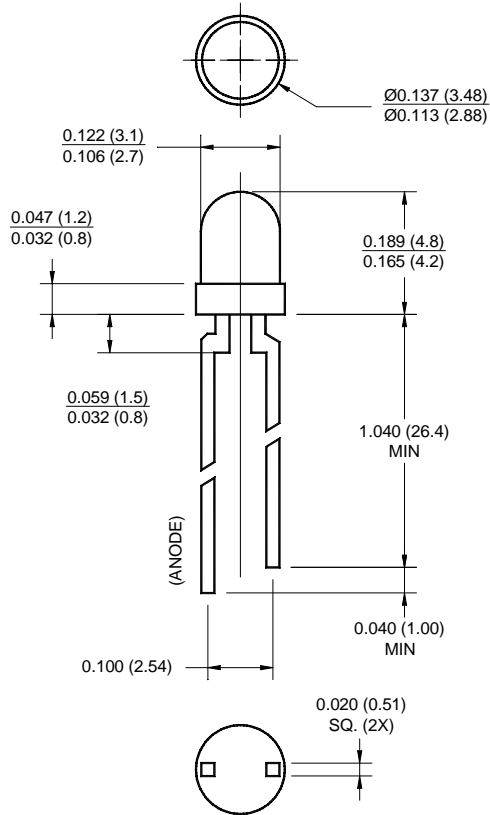


SUPER BRIGHT AlInGaP T-100 (3 mm)

LOW CURRENT LED LAMP - Tinted & Diffused

PACKAGE DIMENSIONS



NOTES:

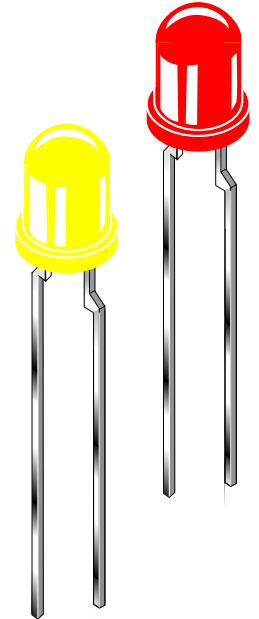
1. Dimensions for all drawings are in inches (mm).
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under the flange is 1.5 mm (0.059") max.

SUPER RED
SUPER YELLOW

HLMP-1700L
HLMP-1719L

FEATURES

- Popular T-100 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-100 super bright low current lamps have a moderate viewing angle of 50°. The HLMP-17XXL 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

SUPER BRIGHT AlInGaP T-100 (3 mm) LOW CURRENT LED LAMP - Tinted & Diffused

**SUPER RED
SUPER YELLOW**

**HLMP-1700L
HLMP-1719L**

ELECTRICAL / OPTICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)			
Part Number	HLMP-1700L	HLMP-1719L	Condition
Luminous Intensity (mcd)			$I_F = 2 \text{ mA}$
Minimum	5	6	
Typical	7.5	9.5	
Forward Voltage (V)			$I_F = 2 \text{ mA}$
Maximum	2.4	2.4	
Typical	2.0	2.0	
Wavelength (nm)			$I_F = 2 \text{ mA}$
Peak	640	590	
Dominant	631	589	
Spectral Line Half Width (nm)	20	15	$I_F = 2 \text{ mA}$
Viewing Angle ($^\circ$)	50	50	$I_F = 2 \text{ mA}$

TYPICAL PERFORMANCE CURVES

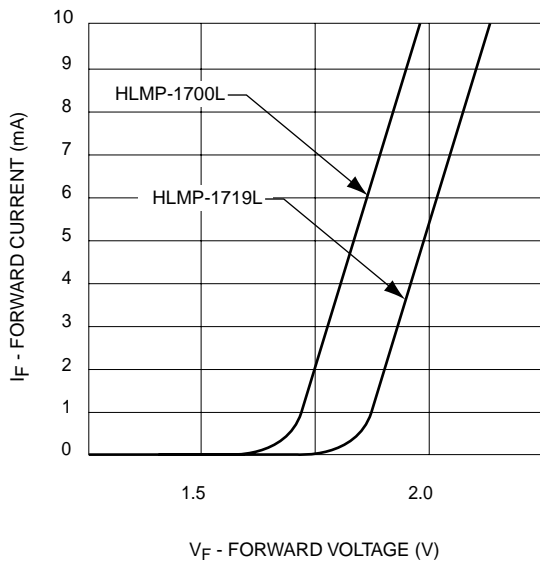


Fig. 1 Forward Current vs. Forward Voltage

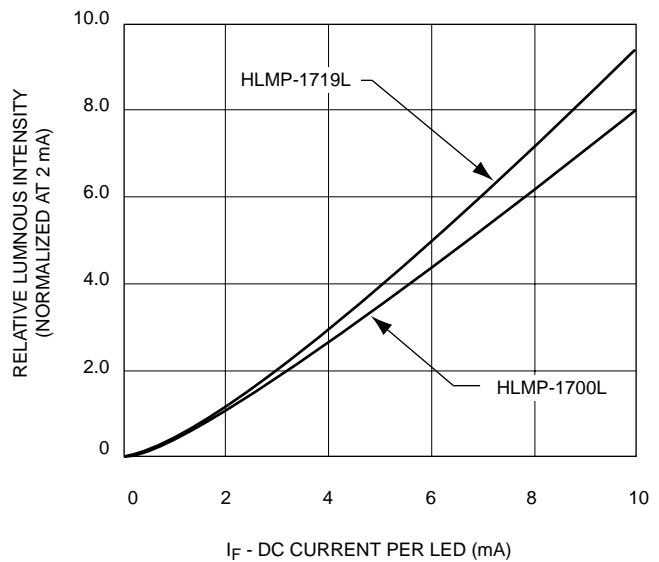


Fig. 2 Relative Luminous Intensity vs. Forward Current

SUPER BRIGHT AlInGaP T-100 (3 mm) LOW CURRENT LED LAMP - Tinted & Diffused

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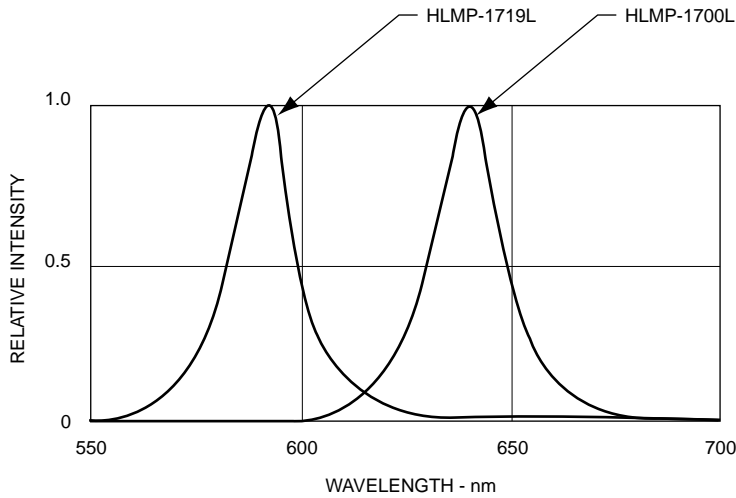


Fig. 3 Relative Intensity vs Peak Wavelength

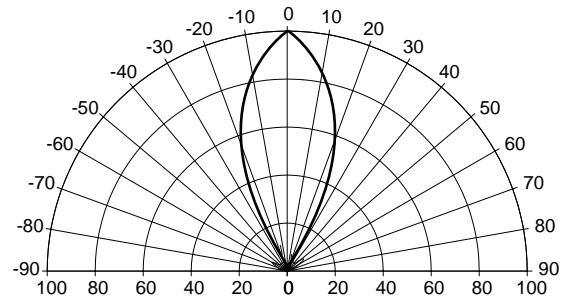


Fig. 4 Radiation Diagram

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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.