

### 0.122 (3.1) 0.106 (2.7) 0.047 (1.2) 0.032 (0.8) 0.189 (4.8) 0.165 (4.2) 0.040 (1.00) MIN 0.020 (0.51) SQ. (2X)

#### NOTES:

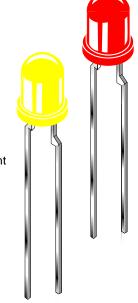
- 1. Dimensions for all drawings are in inches (mm).
- 2. Lead spacing is measured where the leads emerge from the package.
- 3. Protruded resin under the flange is 1.5 mm (0.059") max.

### SUPER RED SUPER YELLOW

HLMP-1700L HLMP-1719L



- 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 AllnGaP LED, which delivers performance, reliability and brightness superior to that of standard products.

ABSOLUTE MAXIMUM RATINGS (T <sub>A</sub> = 25°C unless otherwise specified)			
Parameter	Symbol	Rating	Unit
Operating Temperature	T <sub>OPR</sub>	-55 to +100	°C
Storage Temperature	T <sub>STG</sub>	-55 to +100	°C
Lead Soldering Time	T <sub>SOL</sub>	260 for 5 sec	°C
Continuous Forward Current	I <sub>F</sub>	7.5	mA
Peak Forward Current	I <sub>F</sub>	150	mA
(f = 1.0 KHz, Duty Factor = 1/10)			
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	25	mW



SUPER RED	HLMP-1700L
SUPER YELLOW	HLMP-1719L

Part Number	HLMP-1700L	HLMP-1719L	Condition
Luminous Intensity (mcd)			I <sub>F</sub> = 2 mA
Minimum	5	6	
Typical	7.5	9.5	
Forward Voltage (V)			I <sub>F</sub> = 2 mA
Maximum	2.4	2.4	
Typical	2.0	2.0	
Wavelength (nm)			I <sub>F</sub> = 2 mA
Peak	640	590	
Dominant	631	589	
Spectral Line Half Width (nm)	20	15	I <sub>F</sub> = 2 mA
Viewing Angle (°)	50	50	$I_F = 2 \text{ mA}$

#### TYPICAL PERFORMANCE CURVES

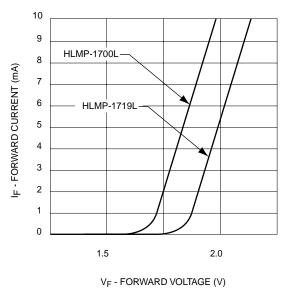


Fig. 1 Forward Current vs. Forward Voltage

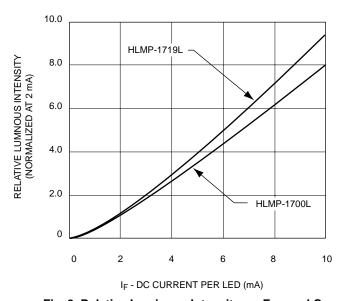


Fig. 2 Relative Luminous Intensity vs. Forward Current



SUPER RED HLMP-1700L SUPER YELLOW HLMP-1719L

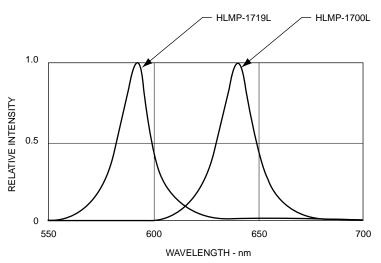


Fig. 3 Relative Intensity vs Peak Wavelength

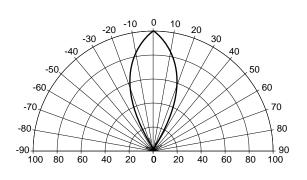


Fig. 4 Radiation Diagram



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- 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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