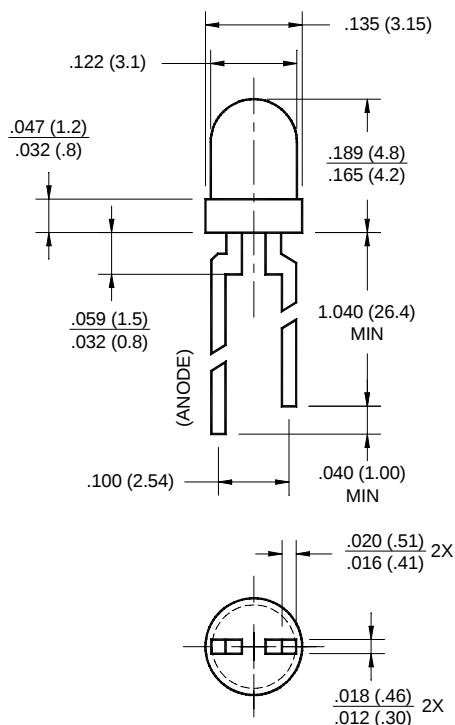


HER  
YELLOW  
GREEN

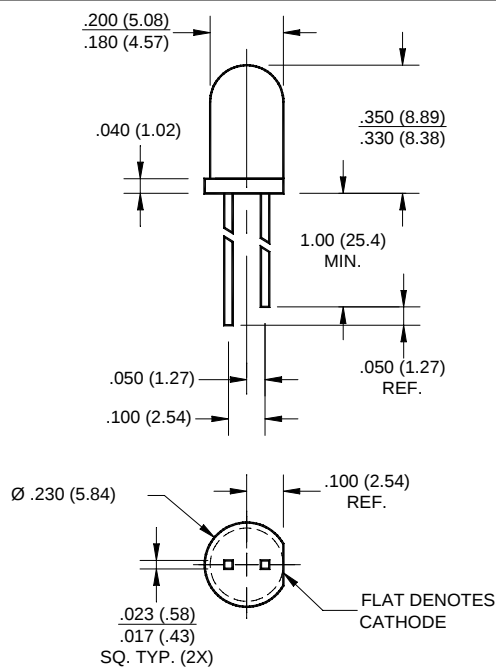
HLMP-1700  
HLMP-1719  
HLMP-1790

HLMP-4700  
HLMP-4719  
HLMP-4740 (MV2454)

## PACKAGE DIMENSIONS



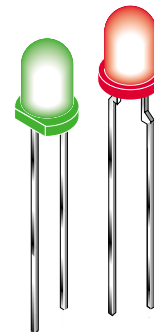
**HLMP-17XX**



**HLMP-47XX**

## FEATURES

- Low power consumption ( low current drive at 2mA)
- Solid state reliability
- Tinted and diffused



## DESCRIPTION

The T-1 3/4 HLMP-47XX series and T-100 HLMP-17XX series are tinted diffused, providing a moderate viewing angle. These parts are optimized for low current and are brighter than the standard LED lamps operated at very low current.

## NOTES:

1. ALL DIMENSIONS ARE IN INCHES (mm).
2. TOLERANCE ARE  $\pm .010"$  UNLESS OTHERWISE SPECIFIED.
3. AN EPOXY MENISCUS MAY EXTEND ABOUT .040"(1 mm) DOWN THE LEADS.

**ABSOLUTE MAXIMUM RATING** (T<sub>A</sub> = 25°C)

| Parameter                                       | HER         | YELLOW      | GREEN       | UNITS                  |
|-------------------------------------------------|-------------|-------------|-------------|------------------------|
| Power Dissipation (derated from 92°C at 1mA/°C) | 27          | 24          | 27          | mW                     |
| Peak Forward Current (PW ≤ 1 ms, DF ≤ 30 %)     | 25          | 20          | 25          | mA                     |
| Continuous Forward Current                      | 7.5         | 7.5         | 7.5         | mA                     |
| Lead Soldering Time at 260° C                   | 5           | 5           | 5           | sec                    |
| Reverse Breakdown Voltage (V)                   | 5           | 5           | 5           | I <sub>R</sub> = 100μA |
| Operating Temperature                           | -55 to +100 | -55 to +100 | -55 to +100 | °C                     |
| Storage Temperature                             | -55 to +100 | -55 to +100 | -55 to +100 | °C                     |

**ELECTRICAL / OPTICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C)

| Parameter                | HER<br>HLMP-1700/4700 | YELLOW<br>HLMP-1719/4719 | GREEN<br>HLMP-1790/4740<br>(MV2454) | Condition            |
|--------------------------|-----------------------|--------------------------|-------------------------------------|----------------------|
| Luminous Intensity (mcd) |                       |                          |                                     | I <sub>F</sub> = 2mA |
| Minimum                  | 1.0/1.2               | 1.0/1.2                  | 1.0/1.2                             |                      |
| Typical                  | 2.0/2.0               | 2.0/2.0                  | 2.0/3.0                             |                      |
| Forward Voltage (V)      |                       |                          |                                     | I <sub>F</sub> = 2mA |
| Maximum                  | 2.2                   | 2.7                      | 2.7                                 |                      |
| Typical                  | 1.8                   | 1.9                      | 1.9                                 |                      |
| Peak Wavelength (nm)     | 635                   | 585                      | 565                                 | I <sub>F</sub> = 2mA |
| Spectral Line Half Width | 45                    | 35                       | 30                                  | I <sub>F</sub> = 2mA |
| Viewing Angle (°)        | 50/35                 | 50/35                    | 50/35                               | I <sub>F</sub> = 2mA |

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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.