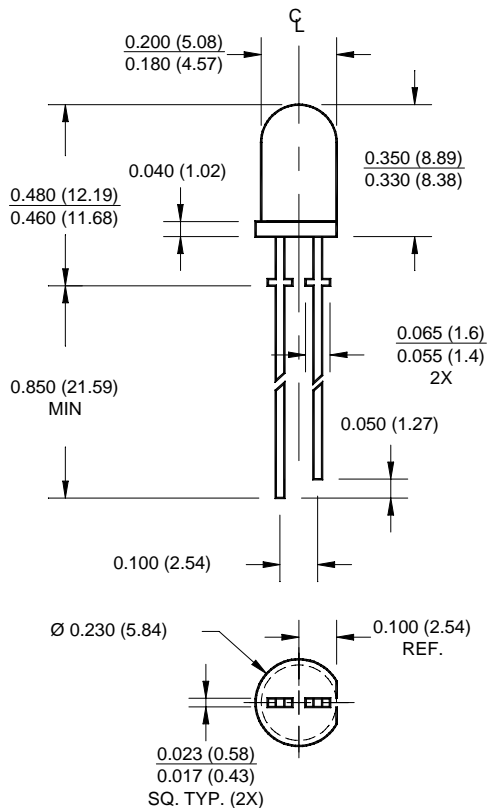
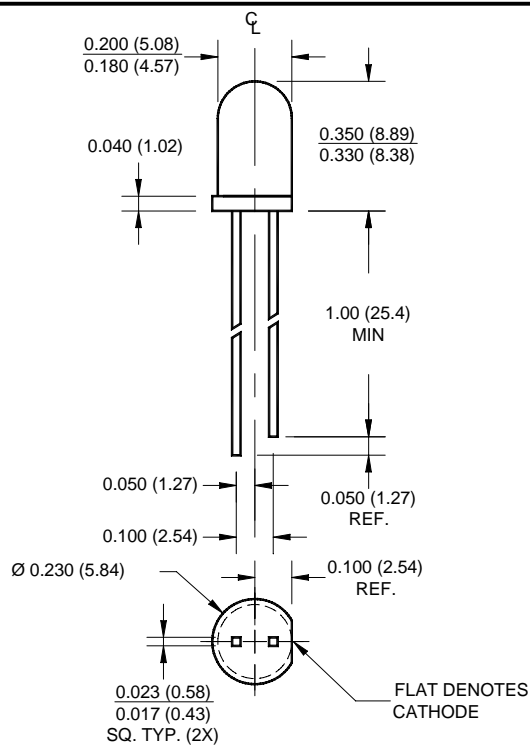
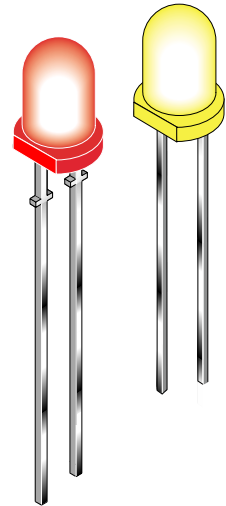


## PACKAGE DIMENSIONS


**HLMP-3X50A**

**MV3X50**
**HLMP-3X50A**  
**MV3X50**

## FEATURES

- Pale tint
- Sturdy leads with or without stand-off on T-1 3/4
- Excellent for small area backlighting
- HER
  - HLMP-3750A
  - MV3750
- Green
  - HLMP-3950A
  - MV3450
- Yellow
  - HLMP-3850A
  - MV3350



## DESCRIPTION

The HLMP-3X50 series consists of tinted and water clear T-1 3/4 LED lamps with standoffs.

The MV3X50 series is the same as Agilent's HLMP-3X50A series, except for the standoffs.

Both series are available in red, yellow and green with a minimum intensity of 80mcd.

## NOTES:

ALL DIMENSIONS ARE IN INCHES (mm).

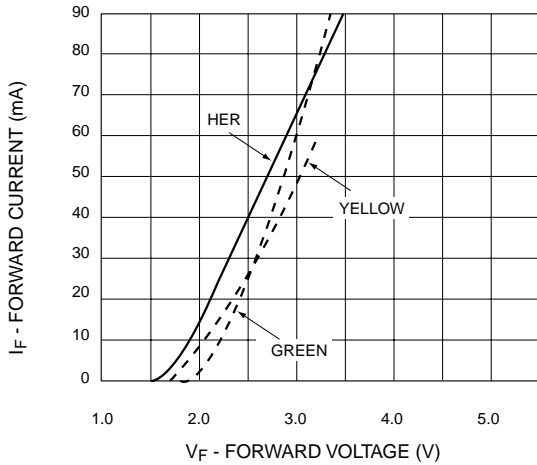
**ABSOLUTE MAXIMUM RATING** (T<sub>A</sub> =25°C)

| Parameter                     | HER         | YELLOW      | GREEN       | UNITS |
|-------------------------------|-------------|-------------|-------------|-------|
| Power Dissipation             | 135         | 85          | 135         | mW    |
| Peak Forward Current          | 90          | 60          | 90          | mA    |
| Continuous DC Forward Current | 30          | 20          | 30          | mA    |
| Lead Soldering Time at 260° C | 5           | 5           | 5           | sec   |
| Operating Temperature         | -55 to +100 | -55 to +100 | -50 to +100 | °C    |
| Storage Temperature           | -55 to +100 | -55 to +100 | -50 to +100 | °C    |

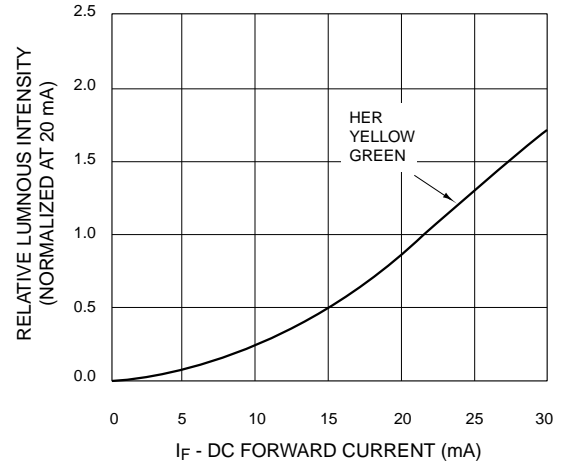
**ELECTRICAL / OPTICAL CHARACTERISTICS** (T<sub>A</sub> =25°C)

| Parameter                | MV3750     | MV3350     | MV3450     | Condition              |
|--------------------------|------------|------------|------------|------------------------|
|                          | HLMP-3750A | HLMP-3850A | HLMP-3950A |                        |
| Luminous Intensity (mcd) |            |            |            | I <sub>F</sub> = 20mA  |
| Minimum                  | 80         | 80         | 80         |                        |
| Typical                  | 150        | 150        | 150        |                        |
| Forward Voltage (V)      |            |            |            | I <sub>F</sub> = 20mA  |
| Maximum                  | 3.0        | 3.0        | 3.0        |                        |
| Typical                  | 2.2        | 2.2        | 2.2        |                        |
| Peak Wavelength (nm)     | 635        | 585        | 565        | I <sub>F</sub> = 20mA  |
| Reverse Voltage (V)      | 5          | 5          | 5          | I <sub>R</sub> = 100μA |
| Viewing Angle (°)        | 24         | 24         | 24         | I <sub>F</sub> = 20mA  |

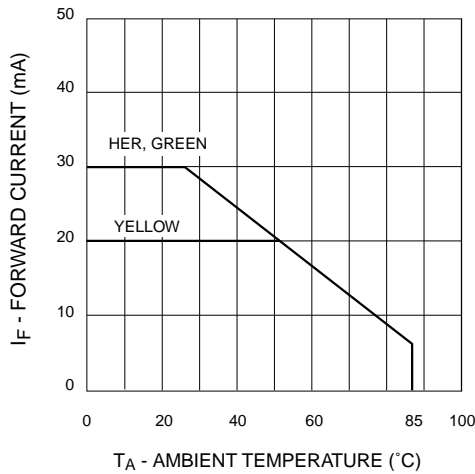
**TYPICAL PERFORMANCE CURVES ( $T_A = 25^\circ\text{C}$ )**



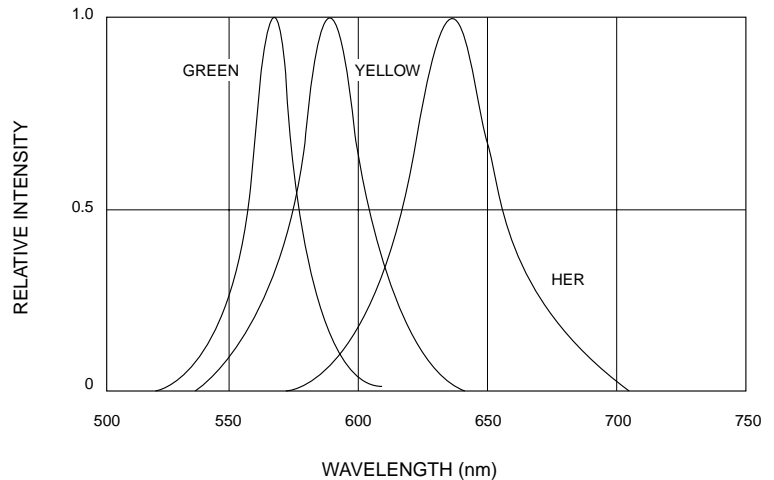
**Fig. 1 Forward Current vs. Forward Voltage**



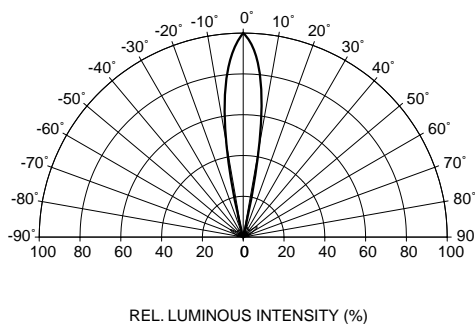
**Fig. 2 Relative Luminous Intensity vs. DC Forward Current**



**Fig. 3 Current Derating Curve**



**Fig. 4 Relative Intensity vs. Peak Wavelength**



**Fig. 5 Radiation Diagram**

## **DISCLAIMER**

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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.