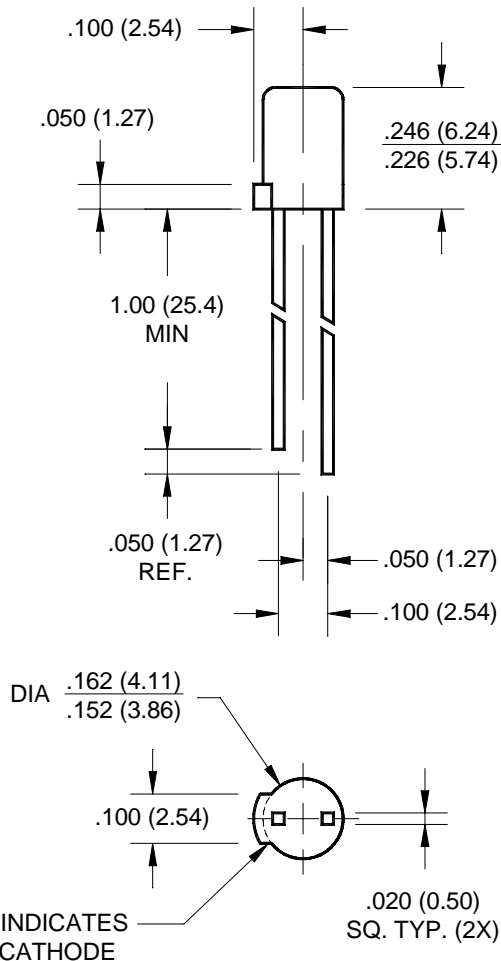


**HER  
YELLOW  
GREEN**

**HLMP-M200/M201  
HLMP-M300/M301  
HLMP-M500/M501**

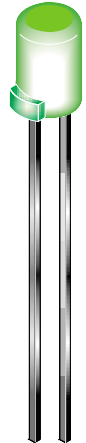
**HLMP-M250/M251  
HLMP-M350/M351  
HLMP-M550/M551**

## PACKAGE DIMENSIONS



## FEATURES

- Wide viewing angle
- Excellent for backlighting small areas
- Solid state reliability
- Choice of tinted clear or tinted diffused package



## DESCRIPTION

Bright illumination and wide viewing angle are two outstanding features of the 4 mm flat top lamps. The cylindrical shape and flat emitting surface make these lamps particularly well suited for applications requiring high light output in minimal space.

NOTES: ALL DIMENSIONS ARE IN INCHES (mm).

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

Parameters	HER	YELLOW	GREEN	UNITS
Power Dissipation	135	120	135	mW
Peak Forward Current (1 μs pulse width, 0.3% duty cycle)	90	60	90	mA
Reverse Voltage	5	5	5	V
Lead Soldering Time at 260° C	5	5	5	sec
Continuous Forward Current	30	20	30	mA
Operating Temperature	-55 to +100	-55 to +100	-55 to +100	°C
Storage Temperature	-55 to +100	-55 to +100	-55 to +100	°C

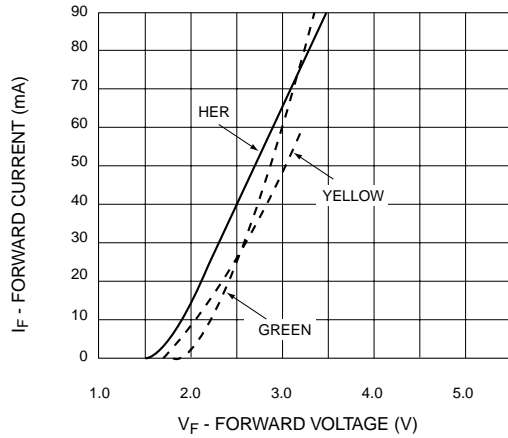
## ELECTRICAL / OPTICAL CHARACTERISTICS (T<sub>A</sub> =25°C)

Parameter	HER	YELLOW	GREEN	Condition
	HLMP-M200/M201	HLMP-M300/M301	HLMP-M500/M501	
Luminous Intensity (mcd)				I <sub>F</sub> = 20mA
Minimum	3.4 / 5.4	3.6 / 5.7	4.2 / 6.7	
Typical	5.0 / 7.0	5.0 / 7.0	7.0 / 10.0	
Forward Voltage (V)				I <sub>F</sub> = 20mA
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.3	
Peak Wavelength (nm)	635	585	565	I <sub>F</sub> = 20mA
Reverse Voltage (V)	5	5	5	I <sub>R</sub> = 100μA
Viewing Angle (°)	135	135	135	I <sub>F</sub> = 20mA

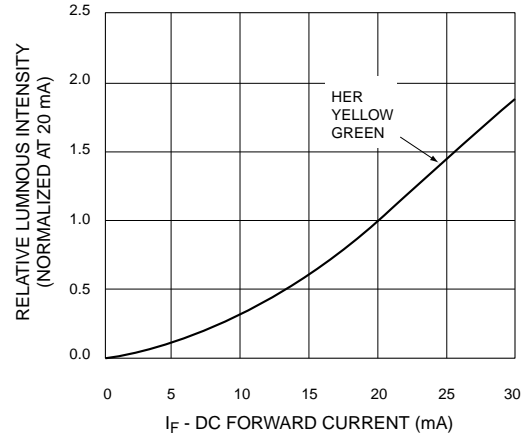
## ELECTRICAL / OPTICAL CHARACTERISTICS (T<sub>A</sub> =25°C)

Parameter	HER	YELLOW	GREEN	Condition
	HLMP-M250/M251	HLMP-M350/M351	HLMP-M550/M551	
Luminous Intensity (mcd)				I <sub>F</sub> = 10mA
Minimum	3.4 / 5.4	3.6 / 5.7	4.2 / 6.7	
Typical	5.0 / 7.0	5.0 / 7.0	10.0 / 16.0	
Forward Voltage (V)				I <sub>F</sub> = 20mA
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.3	
Peak Wavelength (nm)	635	585	565	I <sub>F</sub> = 10mA
Reverse Voltage (V)	5	5	5	I <sub>R</sub> = 100μA
Viewing Angle (°)	80	80	80	I <sub>F</sub> = 10mA

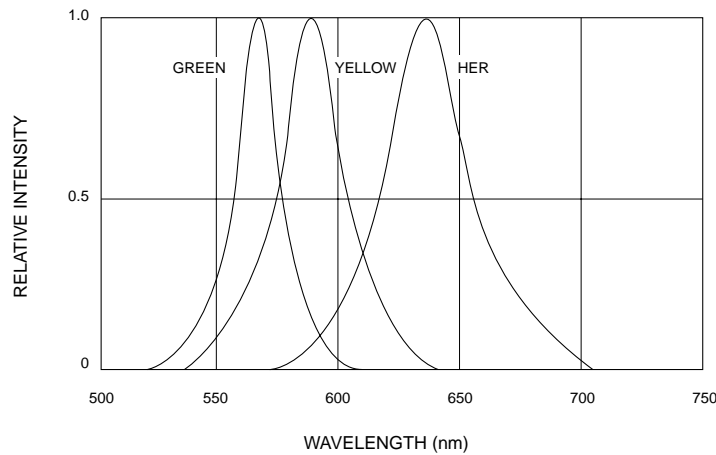
## TYPICAL PERFORMANCE CURVES ( $T_A = 25^\circ\text{C}$ )



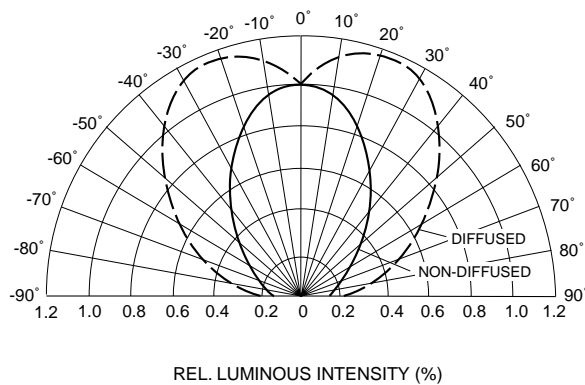
**Fig. 1 Forward Current vs. Forward Voltage**



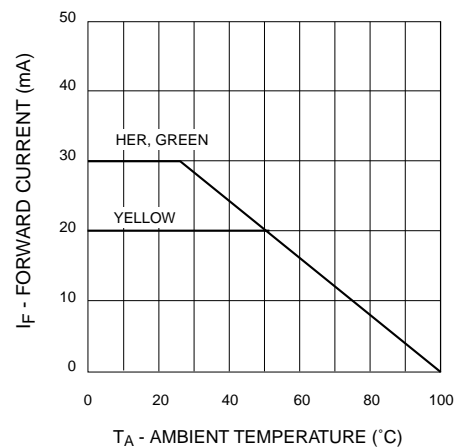
**Fig. 2 Relative Luminous Intensity vs. DC Forward Current**



**Fig. 3 Relative Intensity vs. Peak Wavelength**



**Fig. 4 Radiation Diagram**



**Fig. 5 Current Derating Curve**

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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.