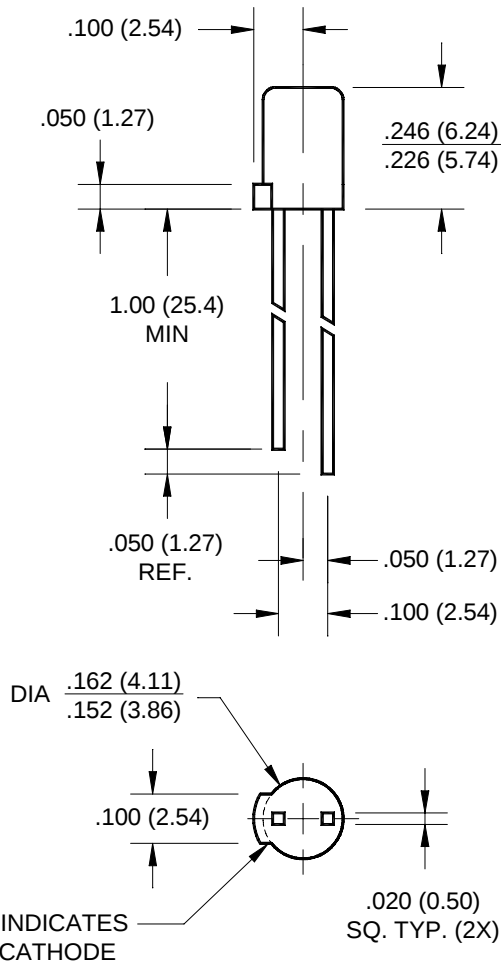


**HER
YELLOW
GREEN**

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

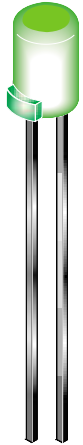
**HLMP-M250/M251
HLMP-M350/M351
HLMP-M550/M551**

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_A = 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 ($T_A = 25^\circ\text{C}$)

Parameter	HER	YELLOW	GREEN	Condition
	HLMP-M200/M201	HLMP-M300/M301	HLMP-M500/M501	
Luminous Intensity (mcd)				$I_F = 20\text{mA}$
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)				$I_F = 20\text{mA}$
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.3	
Peak Wavelength (nm)	635	585	565	$I_F = 20\text{mA}$
Reverse Voltage (V)	5	5	5	$I_R = 100\mu\text{A}$
Viewing Angle (°)	135	135	135	$I_F = 20\text{mA}$

ELECTRICAL / OPTICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

Parameter	HER	YELLOW	GREEN	Condition
	HLMP-M250/M251	HLMP-M350/M351	HLMP-M550/M551	
Luminous Intensity (mcd)				$I_F = 10\text{mA}$
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)				$I_F = 20\text{mA}$
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.3	
Peak Wavelength (nm)	635	585	565	$I_F = 10\text{mA}$
Reverse Voltage (V)	5	5	5	$I_R = 100\mu\text{A}$
Viewing Angle (°)	80	80	80	$I_F = 10\text{mA}$

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

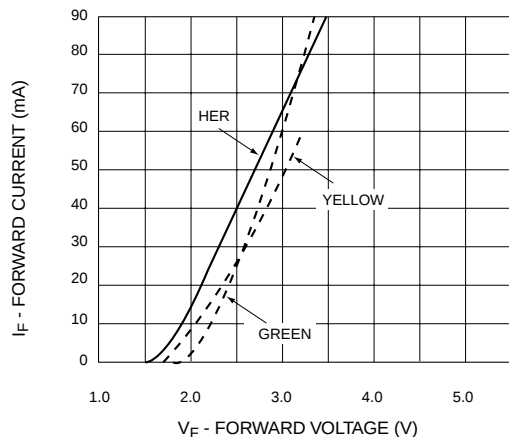


Fig. 1 Forward Current vs. Forward Voltage

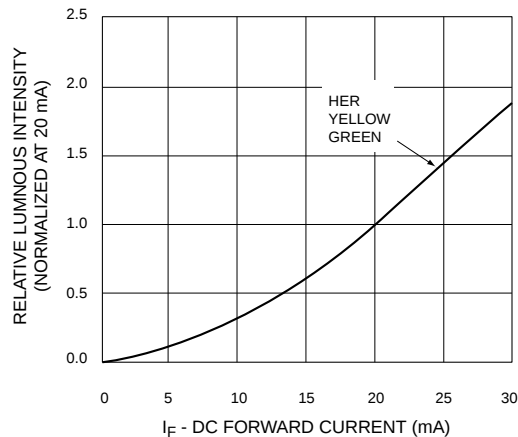


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

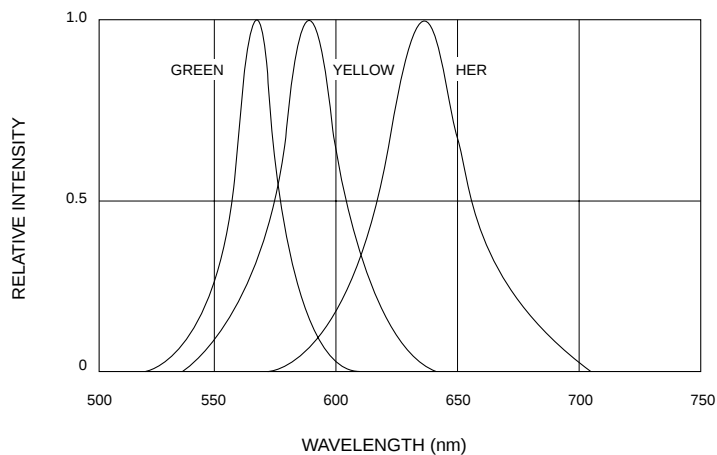


Fig. 3 Relative Intensity vs. Peak Wavelength

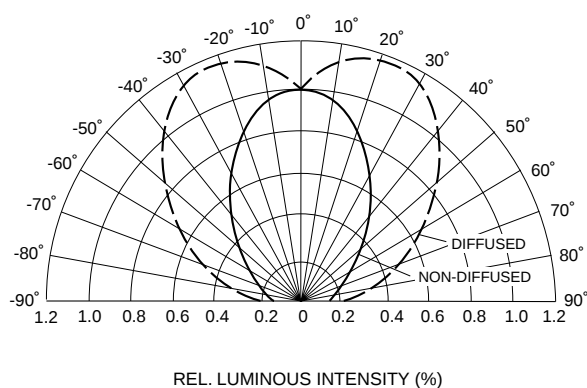


Fig. 4 Radiation Diagram

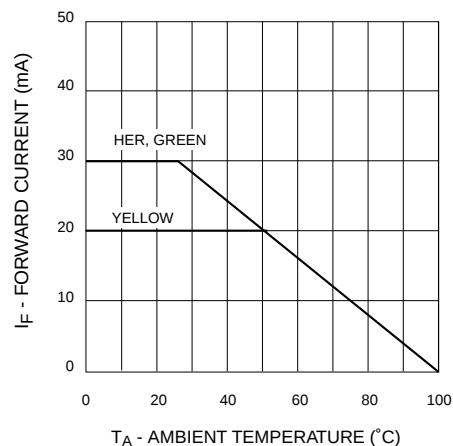


Fig. 5 Current Derating Curve

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