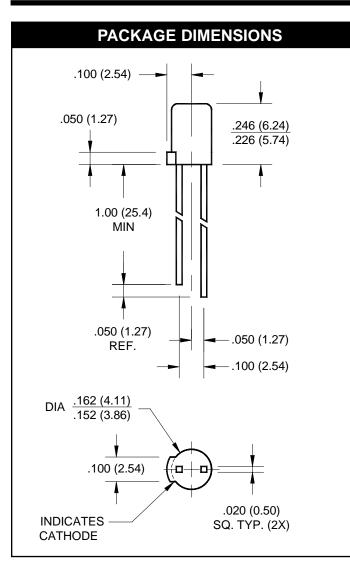


# 4 mm FLAT TOP LAMPS

## HER YELLOW GREEN

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

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



### 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		NCHES (mm).
NOTES. ALL	DIVIENSIONS	

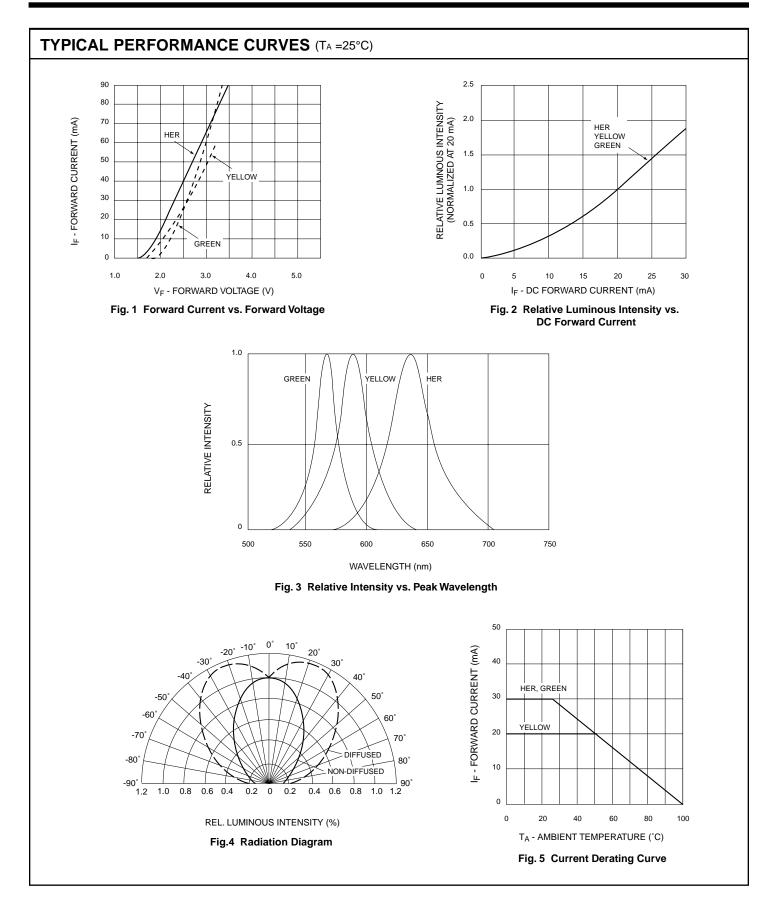
ABSOLUTE MAXIMUM RATING (TA =25°C)					
Parameters	HER	YELLOW	GREEN	UNITS	
Power Dissipation	135	120	135	mW	
Peak Forward Current					
(1 $\mu$ S pulse width, 0.3% duty cycle)	90	60	90	mA	
Reverse Voltage	5	5	5	V	
Lead Soldering Time at 260° C	5	5	5	sec	
Continuous Forward Current	30	20	30	mA	
Operating 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 (TA =25°C)				
	HER	YELLOW	GREEN	
Pararmeter	HLMP-M200/M201	HLMP-M300/M301	HLMP-M500/M501	Condition
Luminous Intensity (mcd)				$I_F = 20 mA$
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)				$I_F = 20 mA$
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.3	
Peak Wavelength (nm)	635	585	565	$I_F = 20 mA$
Reverse Voltage (V)	5	5	5	I <sub>R</sub> = 100μA
Viewing Angle (°)	135	135	135	$I_F = 20 mA$

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)					
	HER	YELLOW	GREEN		
Pararmeter	HLMP-M250/M251	HLMP-M350/M351	HLMP-M550/M551	Condition	
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)				$I_F = 20 mA$	
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 <sub>R</sub> = 100μA	
Viewing Angle (°)	80	80	80	I <sub>F</sub> = 10mA	



# 4 mm FLAT TOP LAMPS





# 4 mm FLAT TOP LAMPS

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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.