

## 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

## **PACKAGE DIMENSIONS** .100 (2.54) -.050 (1.27) .246 (6.24) .226 (5.74) 1.00 (25.4) MÌN .050 (1.27) .050 (1.27) REF. .100 (2.54) DIA .162 (4.11) .152 (3.86) .100 (2.54) $\leftarrow$ .020 (0.50) **INDICATES** SQ. TYP. (2X) CATHODE

#### **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).

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



# 4 mm FLAT TOP LAMPS

## ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)

HER YELLOW Pararmeter HLMP-M200/M201 HLMP-M300/M301 Luminous Intensity (mcd) Minimum 3.4 / 5.4 3.6 / 5.7 Typical 5.0 / 7.0 5.0 / 7.0 Forward Voltage (V) Maximum 3.0 3.0 Typical 2.2 2.2 Peak Wavelength (nm) 635 585 Reverse Voltage (V) 5 5 Viewing Angle (°) 135 135

**GREEN HLMP-M500/M501**4.2 / 6.7 7.0 / 10.0
3.0 2.3 565 5 135

Condition IF = 20mA IF = 20mA IF = 20mA IR = 100µA IF = 20mA

### ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)

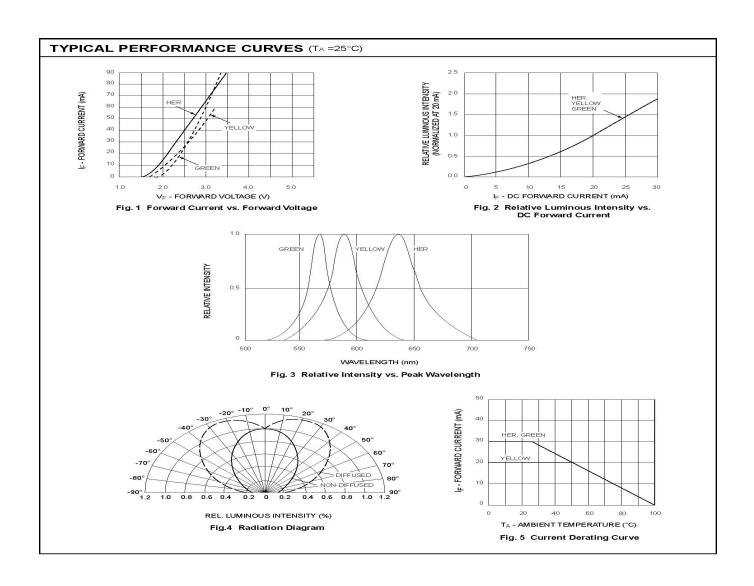
HER YELLOW Pararmeter HLMP-M250/M251 HLMP-M350/M351 Luminous Intensity (mcd) Minimum 3.4 / 5.4 3.6 / 5.7 Typical 5.0 / 7.0 5.0 / 7.0 Forward Voltage (V) Maximum 3.0 3.0 Typical 2.2 2.2 Peak Wavelength (nm) 635 585 Reverse Voltage (V) 5 5 Viewing Angle (°) 80 80

**GREEN HLMP-M550/M551**4.2 / 6.7 10.0 / 16.0
3.0 2.3 565 5 80

Condition IF = 10mA IF = 20mA IF = 10mA IR = 100µA IF = 10mA



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- A critical component in any component of a life support device or system whose failure to perform can be implant into reasonably expected to cause the failure of the life and (c) device or system, or to affect its safety or effectiveness.