



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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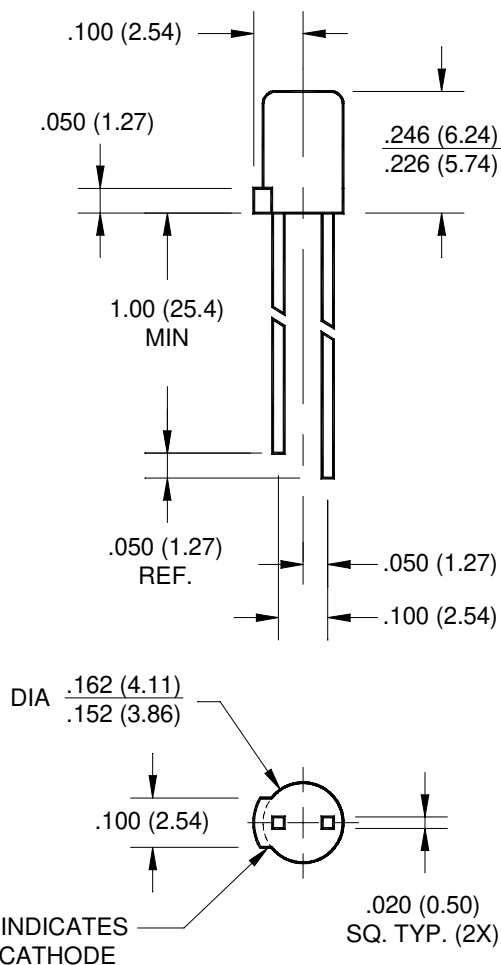


HER
YELLOW
GREEN

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

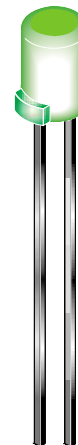
HLMP-M250/M251
HLMP-M350/M351
HLMP-M550/M551

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°C)

Parameter	HER	YELLOW	GREEN	Condition
	HLMP-M200/M201	HLMP-M300/M301	HLMP-M500/M501	
Luminous Intensity (mcd)				I _F = 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 _F = 20mA
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.3	
Peak Wavelength (nm)	635	585	565	I _F = 20mA
Reverse Voltage (V)	5	5	5	I _R = 100μA
Viewing Angle (°)	135	135	135	I _F = 20mA

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Parameter	HER	YELLOW	GREEN	Condition
	HLMP-M250/M251	HLMP-M350/M351	HLMP-M550/M551	
Luminous Intensity (mcd)				I _F = 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 = 20mA
Maximum	3.0	3.0	3.0	
Typical	2.2	2.2	2.3	
Peak Wavelength (nm)	635	585	565	I _F = 10mA
Reverse Voltage (V)	5	5	5	I _R = 100μA
Viewing Angle (°)	80	80	80	I _F = 10mA

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

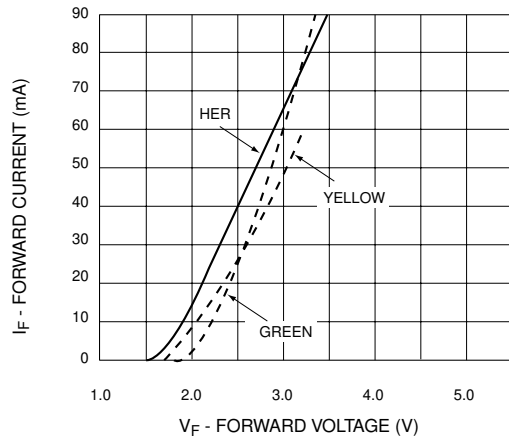


Fig. 1 Forward Current vs. Forward Voltage

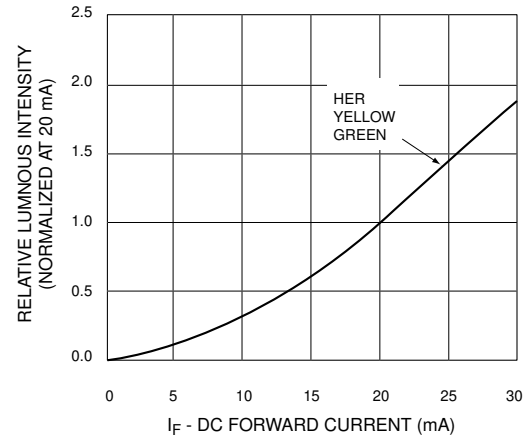


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

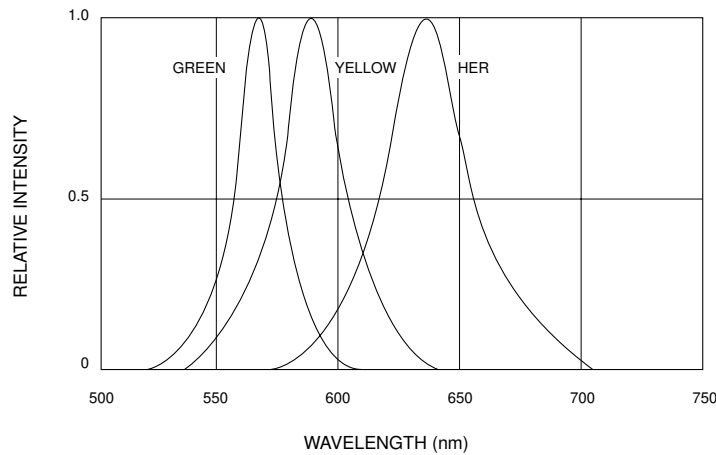


Fig. 3 Relative Intensity vs. Peak Wavelength

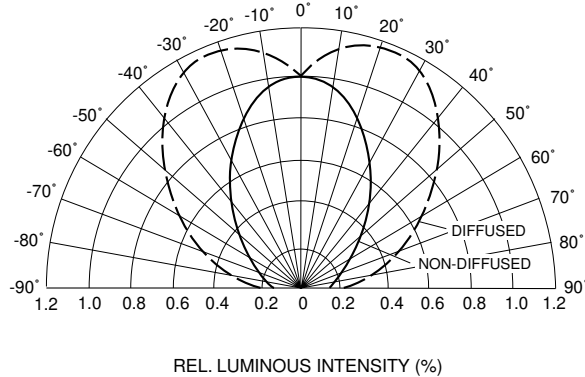


Fig. 4 Radiation Diagram

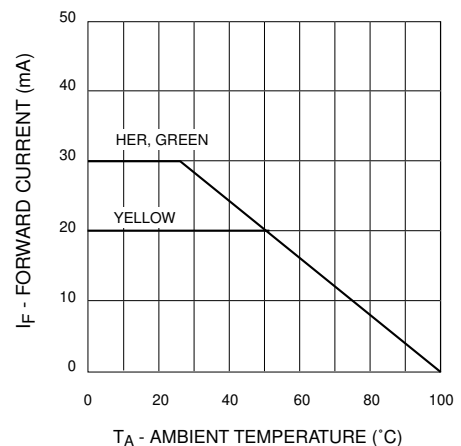


Fig. 5 Current Derating Curve

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