



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





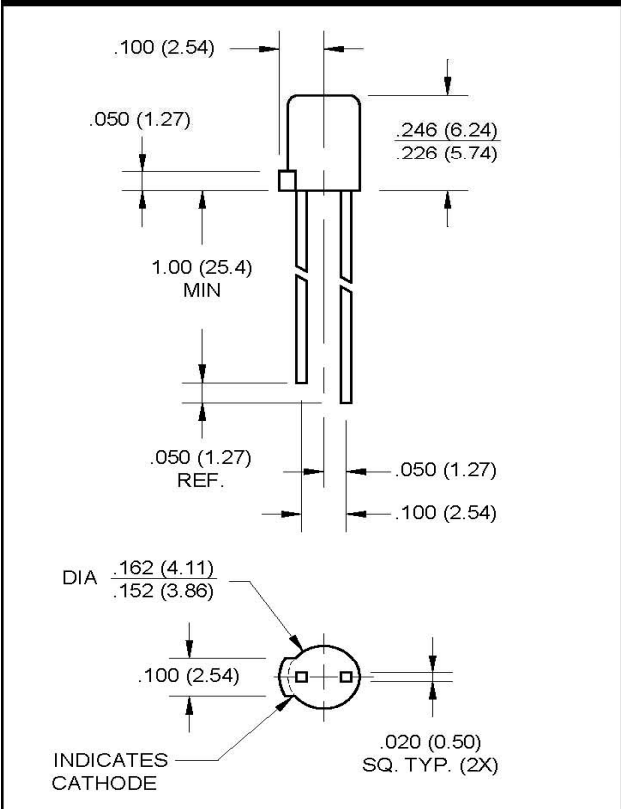
4 mm FLAT TOP LAMPS

HER
YELLOW
GREEN

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

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

PACKAGE DIMENSIONS



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



4 mm FLAT TOP LAMPS

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)			
HER YELLOW	Parammeter	HLMP-M200/M201	HLMP-M300/M301
Minimum 3.4 / 5.4	3.6 / 5.7	Typical 5.0 / 7.0	5.0 / 7.0
Typical 2.2	2.2	Peak Wavelength (nm)	635 585
135		Reverse Voltage (V)	5 5
		Viewing Angle (°)	135
		GREEN	HLMP-M500/M501
		4.2 / 6.7	7.0 / 10.0
		3.0	2.3 565 5 135
		Condition	I_F =
			= 20mA
			20mA I _F =
			20mA I _R =
			100μA I _F =
			20mA

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)			
HER YELLOW	Parammeter	HLMP-M250/M251	HLMP-M350/M351
Minimum 3.4 / 5.4	3.6 / 5.7	Typical 5.0 / 7.0	5.0 / 7.0
Typical 2.2	2.2	Peak Wavelength (nm)	635 585
80		Reverse Voltage (V)	5 5
		Viewing Angle (°)	80
		GREEN	HLMP-M550/M551
		4.2 / 6.7	10.0 / 16.0
		3.0	2.3 565 5 80
		Condition	I_F =
			= 10mA
			20mA I _F =
			10mA I _R =
			100μA I _F =
			10mA



4 mm FLAT TOP LAMPS

TYPICAL PERFORMANCE CURVES (T_A = 25°C)

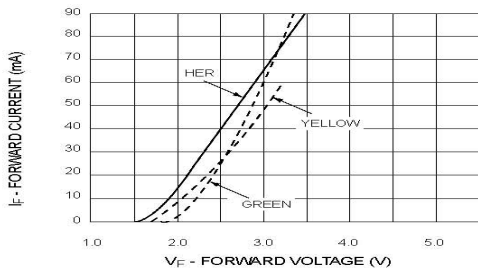


Fig. 1 Forward Current vs. Forward Voltage

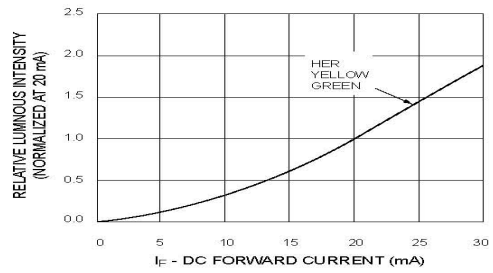


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

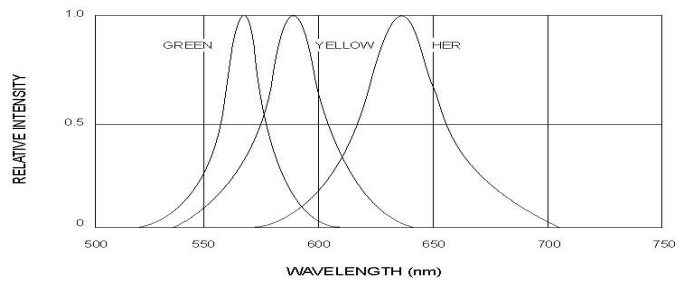


Fig. 3 Relative Intensity vs. Peak Wavelength

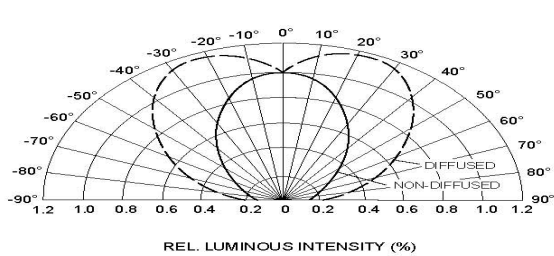


Fig. 4 Radiation Diagram

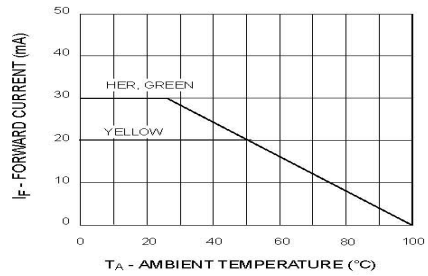


Fig. 5 Current Derating Curve



4 m m FLAT TOP LAMPS

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical the body, or (b) support or sustain life, whose failure to perform when properly support used in accordance with instructions for use provided in labeling, can be reasonably expected to result in a significant injury of the user.
2. 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.