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# LED Light Bars

## Technical Data

**HLCP-A100, -B100, -C100,  
-D100, -E100, -F100, -G100,  
-H100**  
**HLMP-2300, -2350, -2400,  
-2450, -2500, -2550, -2600,  
-2620, -2635, -2655, -2670,  
-2685, -2700, -2720, -2735,  
-2755, -2770, -2785, -2800,  
-2820, -2835, -2855, -2870,  
-2885, -2950, -2965**

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### Features

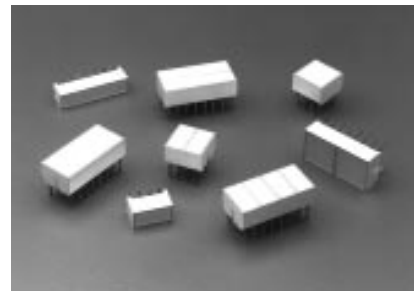
- **Large Bright, Uniform Light Emitting Areas**
- **Choice of Colors**
- **Categorized for Light Output**
- **Yellow and Green Categorized for Dominant Wavelength**
- **Excellent ON-OFF Contrast**
- **X-Y Stackable**
- **Flush Mountable**
- **Can be Used with Panel and Legend Mounts**
- **Light Emitting Surface Suitable for Legend Attachment per Application Note 1012**
- **HLCP-X100 Series Designed for Low Current Operation**
- **Bicolor Devices Available**

### Applications




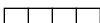
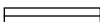





- **Business Machine Message Annunciators**
- **Telecommunications Indicators**
- **Front Panel Process Status Indicators**
- **PC Board Identifiers**
- **Bar Graphs**

### Description

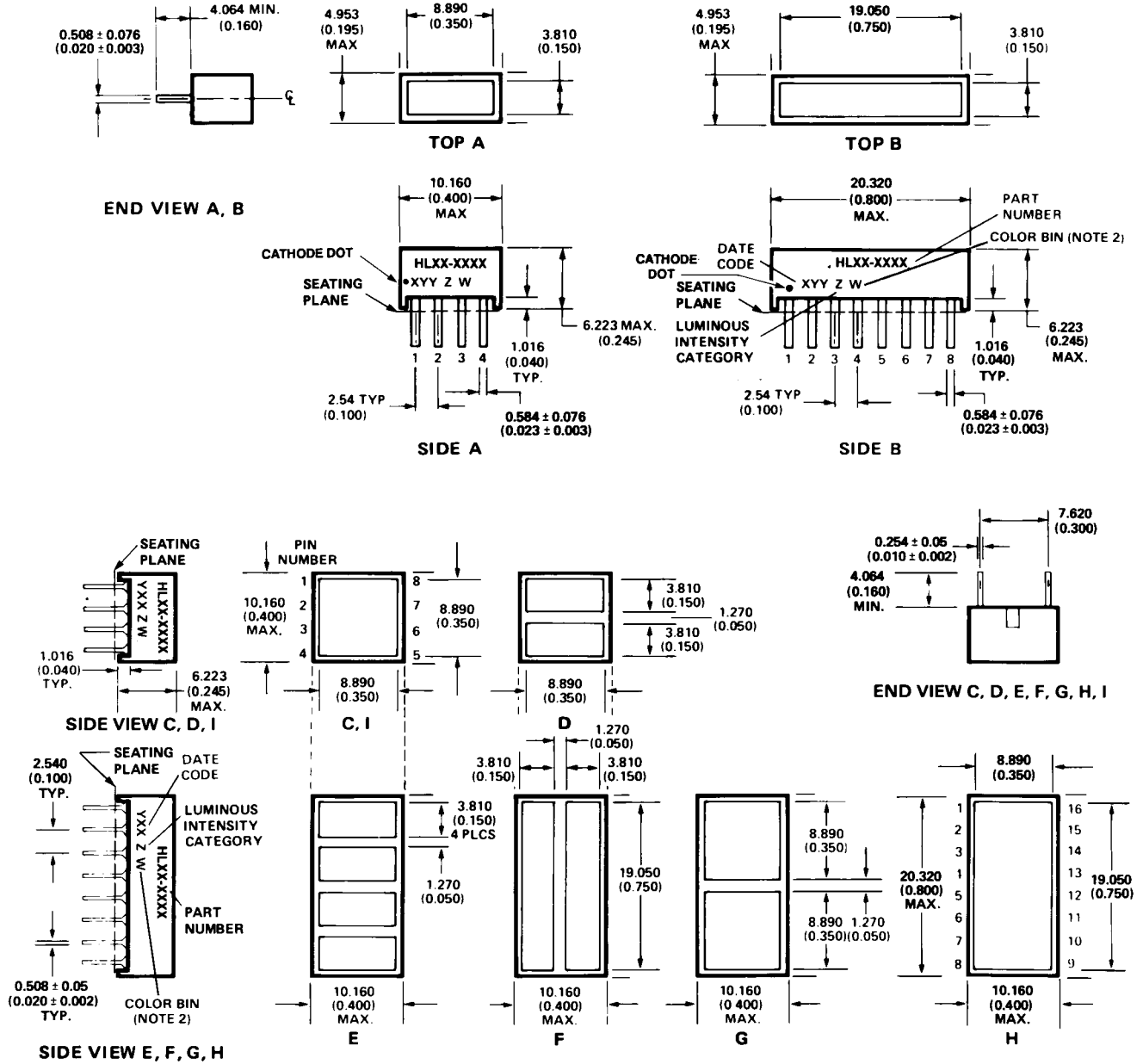
The HLCP-X100 and HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line and dual-in-line packages that contain either single or segmented light emitting areas. The AlGaAs Red HLCP-X100 series LEDs use double heterojunction AlGaAs on a GaAs substrate. The HER HLMP-2300/2600 and Yellow HLMP-2400/2700 series LEDs have their p-n junctions diffused into a GaAsP epitaxial layer on a GaP substrate. The Green HLMP-2500/2800 series LEDs use a liquid phase GaP epitaxial layer on a GaP substrate. The bicolor HLMP-2900 series use a combination of HER/Yellow or HER/Green LEDs.



## Selection Guide

Light Bar Part Number				Size of Light Emitting Areas	Number of Light Emitting Areas	Package Outline		Corresponding Panel and Legend Mount Part No. HLMP-
HLCP-	HLMP-							
AlGaAs	HER	Yellow	Green					
A100	2300	2400	2500	8.89 mm x 3.81 mm (.350 in. x .150 in.)	1	A		2599
B100	2350	2450	2550	19.05 mm x 3.81 mm (.750 in. x .150 in.)	1	B		2598
D100	2600	2700	2800	8.89 mm x 3.81 mm (.350 in. x .150 in.)	2	D		2898
E100	2620	2720	2820	8.89 mm x 3.81 mm (.350 in. x .150 in.)	4	E		2899
F100	2635	2735	2835	3.81 mm x 19.05 mm (.150 in. x .750 in.)	2	F		2899
C100	2655	2755	2855	8.89 mm x 8.89 mm (.350 in. x .350 in.)	1	C		2898
G100	2670	2770	2870	8.89 mm x 8.89 mm (.350 in. x .350 in.)	2	G		2899
H100	2685	2785	2885	8.89 mm x 19.05 mm (.350 in. x .750 in.)	1	H		2899
	2950	2950		8.89 mm x 8.89 mm (.350 in. x .350 in.)	Bicolor	I		2898
	2965		2965	8.89 mm x 8.89 mm (.350 in. x .350 in.)	Bicolor	I		2898

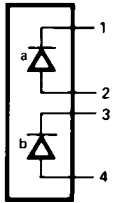
# Package Dimensions



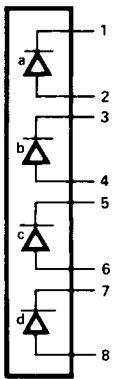
**NOTES:**

1. DIMENSIONS IN MILLIMETRES (INCHES). TOLERANCES ±0.25 mm (±0.010 IN.) UNLESS OTHERWISE INDICATED.
2. FOR YELLOW AND GREEN DEVICES ONLY.

### Internal Circuit Diagrams

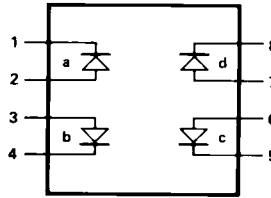


A

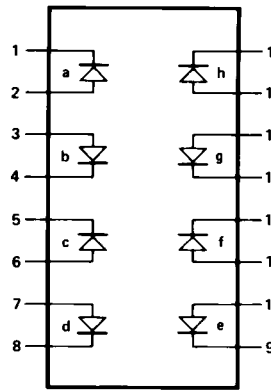


B

PIN FUNCTION		
PIN	A	B
	-2300/-2400 -2500/A100	-2350/-2450 -2550/B100
1	CATHODE a	CATHODE a
2	ANODE a	ANODE a
3	CATHODE b	CATHODE b
4	ANODE b	ANODE b
5		CATHODE c
6		ANODE c
7		CATHODE d
8		ANODE d

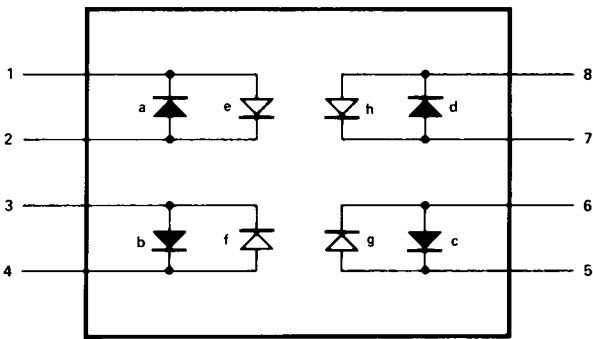




C,D



E,F,G,H

PIN	PIN FUNCTION	
	C, D	E, F, G, H
1	CATHODE a	CATHODE a
2	ANODE a	ANODE a
3	ANODE b	ANODE b
4	CATHODE b	CATHODE b
5	CATHODE c	CATHODE c
6	ANODE c	ANODE c
7	ANODE d	ANODE d
8	CATHODE d	CATHODE d
9		CATHODE e
10		ANODE e
11		ANODE f
12		CATHODE f
13		CATHODE g
14		ANODE g
15		ANODE h
16		CATHODE h



 HIGH EFFICIENCY RED LED    
  YELLOW OR GREEN LED

PIN	PIN FUNCTION	
	HER	YELLOW/ GREEN
1	CATHODE a	ANODE e
2	ANODE a	CATHODE e
3	ANODE b	CATHODE f
4	CATHODE b	ANODE f
5	CATHODE c	ANODE g
6	ANODE c	CATHODE g
7	ANODE d	CATHODE h
8	CATHODE d	ANODE h

## Absolute Maximum Ratings

Parameter	AlGaAs Red HLCP-X100 Series	HER HLMP-2300/ 2600/29XX Series	Yellow HLMP-2400/ 2700/2950 Series	Green HLMP-2500/ 2800/2965 Series
Average Power Dissipated per LED Chip	37 mW <sup>[1]</sup>	135 mW <sup>[2]</sup>	85 mW <sup>[3]</sup>	135 mW <sup>[2]</sup>
Peak Forward Current per LED Chip	45 mA <sup>[4]</sup>	90 mA <sup>[5]</sup>	60 mA <sup>[5]</sup>	90 mA <sup>[5]</sup>
Average Forward Current per LED Chip	15 mA	25 mA	20 mA	25 mA
DC Forward Current per LED Chip	15 mA <sup>[1]</sup>	30 mA <sup>[2]</sup>	25 mA <sup>[3]</sup>	30 mA <sup>[2]</sup>
Reverse Voltage per LED Chip	5 V	6 V <sup>[6]</sup>		
Operating Temperature Range	-20°C to +100°C <sup>[7]</sup>	-40°C to +85°C		-20°C to +85°C
Storage Temperature Range	-40°C to +85°C			
Lead Soldering Temperature 1.6 mm (1/16 inch) Below Seating Plane <sup>3</sup>	260°C for 3 seconds <sup>[8]</sup>			

### Notes:

- Derate above 87°C at 1.7 mW/°C per LED chip. For DC operation, derate above 91°C at 0.8 mA/°C.
- Derate above 25°C at 1.8 mW/°C per LED chip. For DC operation, derate above 50°C at 0.5 mA/°C.
- Derate above 50°C at 1.8 mW/°C per LED chip. For DC operation, derate above 60°C at 0.5 mA/°C.
- See Figure 1 to establish pulsed operation. Maximum pulse width is 1.5 mS.
- See Figure 6 to establish pulsed operation. Maximum pulse width is 2 mS.
- Does not apply to bicolor parts.
- For operation below -20°C, contact your local Agilent sales representative.
- Maximum tolerable component side temperature is 134°C during solder process.

## Electrical/Optical Characteristics at T<sub>A</sub> = 25°C

### AlGaAs Red HLCP-X100 Series

Parameter	HLCP-	Symbol	Min.	Typ.	Max.	Units	Test Conditions
Luminous Intensity per Lighting Emitting Area <sup>[1]</sup>	A100/D100/E100	I <sub>V</sub>	3	7.5		mcd	I <sub>F</sub> = 3 mA
	B100/C100/F100/G100		6	15		mcd	
	H100		12	30		mcd	
Peak Wavelength		λ <sub>PEAK</sub>		645		nm	
Dominant Wavelength <sup>[2]</sup>		λ <sub>d</sub>		637		nm	
Forward Voltage per LED		V <sub>F</sub>		1.8	2.2	V	I <sub>F</sub> = 20 mA
Reverse Breakdown Voltage per LED		V <sub>R</sub>	5	15		V	I <sub>R</sub> = 100 μA
Thermal Resistance LED Junction-to-Pin		Rθ <sub>J-PIN</sub>		250		°C/W/ LED	

**High Efficiency Red HLMP-2300/2600/2900 Series**

Parameter	HLMP-	Symbol	Min.	Typ.	Max.	Units	Test Conditions
Luminous Intensity per Lighting Emitting Area <sup>[1]</sup>	2300/2600/2620	$I_V$	6	23		mcd	$I_F = 20 \text{ mA}$
	2350/2635/2655/2670/2950 <sup>[3]</sup>		13	45		mcd	
	2965 <sup>[4]</sup>		19	45		mcd	
	2685		22	80		mcd	
Peak Wavelength		$\lambda_{\text{PEAK}}$		635		nm	
Dominant Wavelength <sup>[2]</sup>		$\lambda_d$		626		nm	
Forward Voltage per LED		$V_F$		2.0	2.6	V	$I_F = 20 \text{ mA}$
Reverse Breakdown Voltage per LED <sup>[5]</sup>		$V_R$	6	15		V	$I_R = 100 \text{ }\mu\text{A}$
Thermal Resistance LED Junction-to-Pin		$R\theta_{\text{J-PIN}}$		150		$^{\circ}\text{C/W/LED}$	

**Yellow HLMP-2400/2700/2950 Series**

Parameter	HLMP-	Symbol	Min.	Typ.	Max.	Units	Test Conditions
Luminous Intensity per Lighting Emitting Area <sup>[1]</sup>	2400/2700/2720	$I_V$	6	20		mcd	$I_F = 20 \text{ mA}$
	2450/2735/2755/2770/2950 <sup>[3]</sup>		13	38		mcd	
	2785		26	70		mcd	
Peak Wavelength		$\lambda_{\text{PEAK}}$		583		nm	
Dominant Wavelength <sup>[2]</sup>		$\lambda_d$		585		nm	
Forward Voltage per LED		$V_F$		2.1	2.6	V	$I_F = 20 \text{ mA}$
Reverse Breakdown Voltage per LED <sup>[5]</sup>		$V_R$	6	15		V	$I_R = 100 \text{ }\mu\text{A}$
Thermal Resistance LED Junction-to-Pin		$R\theta_{\text{J-PIN}}$		150		$^{\circ}\text{C/W/LED}$	

### High Performance Green HLMP-2500/2800/2965 Series

Parameter	HLMP-	Symbol	Min.	Typ.	Max.	Units	Test Conditions
Luminous Intensity per Lighting Emitting Area <sup>[1]</sup>	2500/2800/2820	$I_V$	5	25		mcd	$I_F = 20 \text{ mA}$
	2550/2835/2855/2870		11	50		mcd	
	2965 <sup>[4]</sup>		25	50		mcd	
	2885		22	100		mcd	
Peak Wavelength		$\lambda_{\text{PEAK}}$		565		nm	
Dominant Wavelength <sup>[2]</sup>		$\lambda_d$		572		nm	
Forward Voltage per LED		$V_F$		2.2	2.6	V	$I_F = 20 \text{ mA}$
Reverse Breakdown Voltage per LED <sup>[5]</sup>		$V_R$	6	15		V	$I_R = 100 \text{ }\mu\text{A}$
Thermal Resistance LED Junction-to-Pin		$R\theta_{\text{J-PIN}}$		150		$^{\circ}\text{C/W/LED}$	

#### Notes:

1. These devices are categorized for luminous intensity. The intensity category is designated by a letter code on the side of the package.
2. The dominant wavelength,  $\lambda_d$ , is derived from the CIE chromaticity diagram and is the single wavelength which defines the color of the device. Yellow and Green devices are categorized for dominant wavelength with the color bin designated by a number code on the side of the package.
3. This is an HER/Yellow bicolor light bar. HER electrical/optical characteristics are shown in the HER table. Yellow electrical/optical characteristics are shown in the Yellow table.
4. This is an HER/Green bicolor light bar. HER electrical/optical characteristics are shown in the HER table. Green electrical/optical characteristics are shown in the Green table.
5. Does not apply to HLMP-2950 or HLMP-2965.

AlGaAs Red

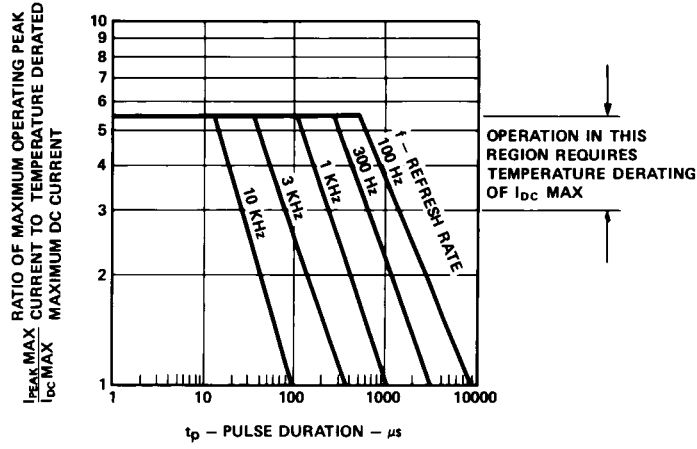


Figure 1. Maximum Allowable Peak Current vs. Pulse Duration.

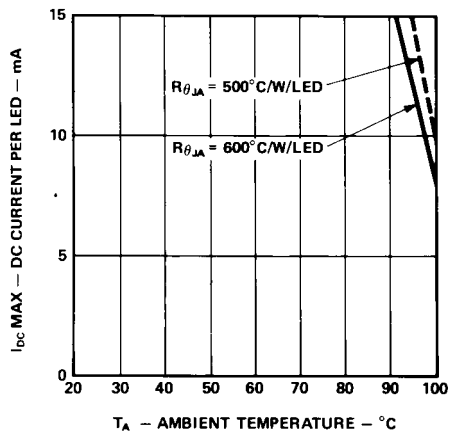


Figure 2. Maximum Allowed DC Current per LED vs. Ambient Temperature,  $T_{j,MAX} = 110^{\circ}C$ .

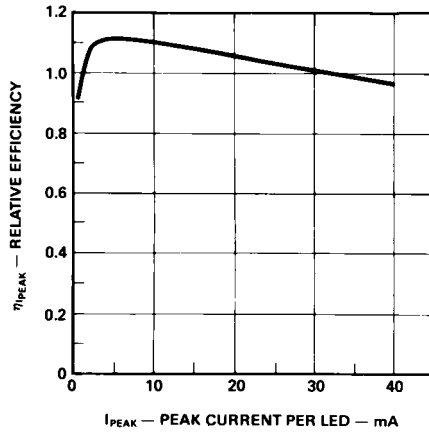


Figure 3. Relative Efficiency (Luminous Intensity per Unit Current) vs. Peak LED Current.

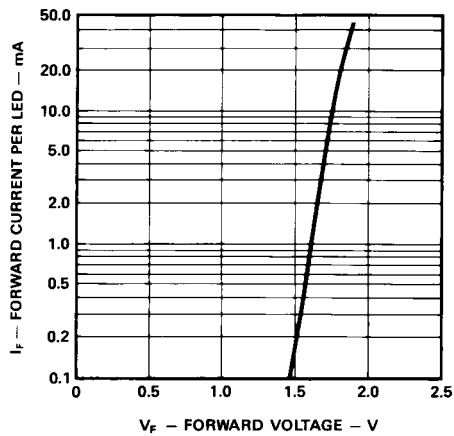


Figure 4. Forward Current vs. Forward Voltage.

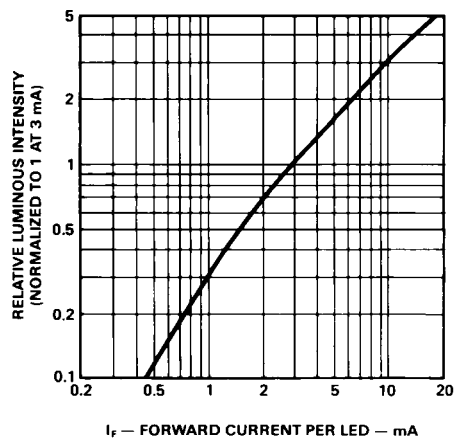


Figure 5. Relative Luminous Intensity vs. DC Forward Current.



HER, Yellow, Green

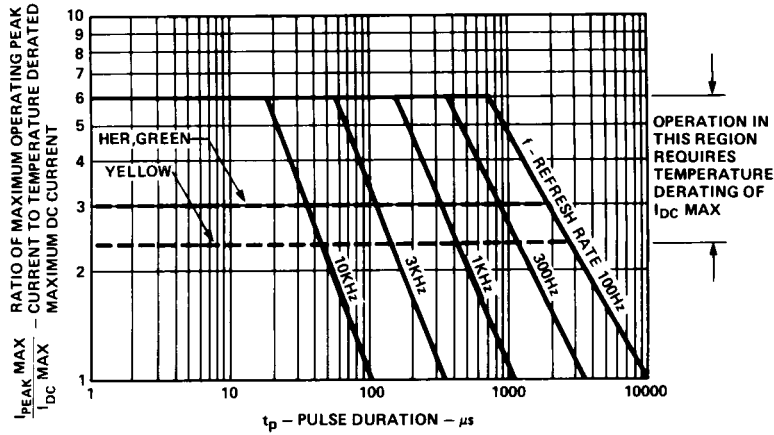


Figure 6. Maximum Allowed Peak Current vs. Pulse Duration.

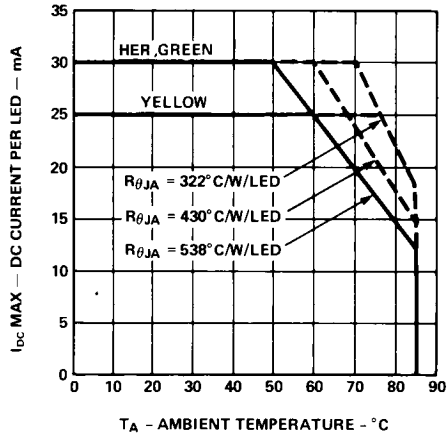


Figure 7. Maximum Allowable DC Current per LED vs. Ambient Temperature,  $T_J$  MAX = 100°C.

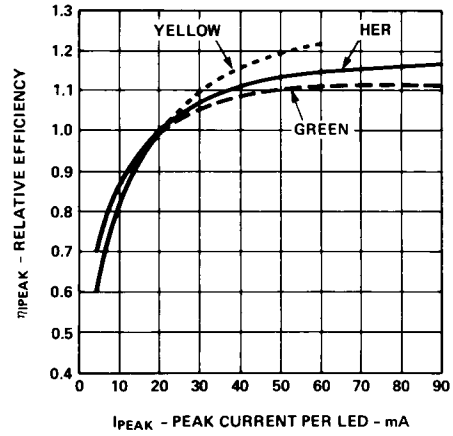


Figure 8. Relative Efficiency (Luminous Intensity per Unit Current) vs. Peak LED Current.

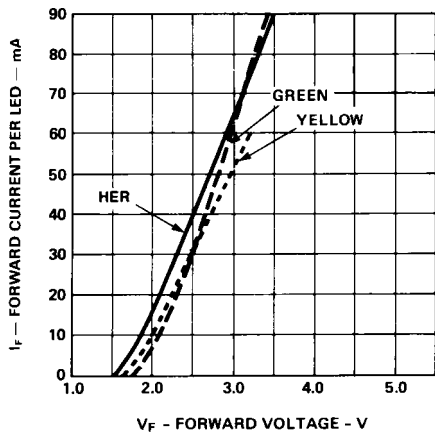


Figure 9. Forward Current vs. Forward Voltage Characteristics.

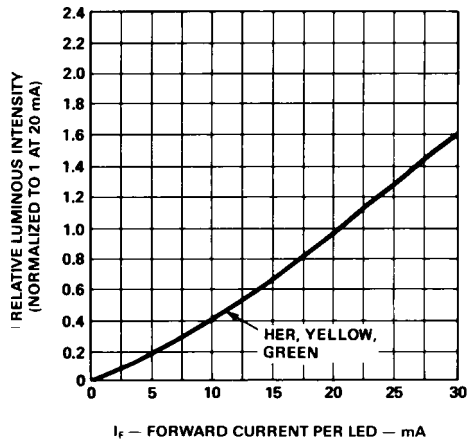


Figure 10. Relative Luminous Intensity vs. DC Forward Current.

*For a detailed explanation on the use of data sheet information and recommended soldering procedures, see Application Notes 1005, 1027, and 1031.*

## Electrical

These light bars are composed of two, four, or eight light emitting diodes, with the light from each LED optically scattered to form an evenly illuminated light emitting surface.

The anode and cathode of each LED is brought out by separate pins. This universal pinout arrangement allows the LEDs to be connected in three possible configurations: parallel, series, or series parallel. The typical forward voltage values can be scaled from Figures 4 and 9. These values should be used to calculate the current limiting resistor value and typical power consumption. Expected maximum  $V_F$  values for driver circuit design and maximum power dissipation,

may be calculated using the following  $V_{FMAX}$  models:

AlGaAs Red HLCP-X100 series

$$V_{FMAX} = 1.8 \text{ V} + I_{PEAK} (20 \Omega)$$

$$\text{For: } I_{PEAK} \leq 20 \text{ mA}$$

$$V_{FMAX} = 2.0 \text{ V} + I_{PEAK} (10 \Omega)$$

$$\text{For: } 20 \text{ mA} \leq I_{PEAK} \leq 45 \text{ mA}$$

HER (HLMP-2300/2600/2900),  
Yellow (HLMP-2400/2700/2900)  
and Green (HLMP-2500/2800/  
2900) series

$$V_{FMAX} = 1.6 + I_{PEAK} (50 \Omega)$$

$$\text{For: } 5 \text{ mA} \leq I_{PEAK} \leq 20 \text{ mA}$$

$$V_{FMAX} = 1.8 + I_{PEAK} (40 \Omega)$$

$$\text{For: } I_{PEAK} \geq 20 \text{ mA}$$

The maximum power dissipation can be calculated for any pulsed or DC drive condition. For DC operation, the maximum power

dissipation is the product of the maximum forward voltage and the maximum forward current. For pulsed operation, the maximum power dissipation is the product of the maximum forward voltage at the peak forward current times the maximum average forward current. Maximum allowable power dissipation for any given ambient temperature and thermal resistance ( $R\theta_{JA}$ ) can be determined by using Figure 2 or 7. The solid line in Figure 2 or 7 ( $R\theta_{JA}$  of 600/538 C/W) represents a typical thermal resistance of a device socketed in a printed circuit board. The dashed lines represent achievable thermal resistances that can be obtained through improved thermal design. Once the maximum allowable power dissipation is determined, the maximum pulsed or DC forward current can be calculated.

## Optical

Size of Light Emitting Area	Surface Area	
	Sq. Metres	Sq. Feet
8.89 mm x 8.89 mm	$67.74 \times 10^{-6}$	$729.16 \times 10^{-6}$
8.89 mm x 3.81 mm	$33.87 \times 10^{-6}$	$364.58 \times 10^{-6}$
8.89 mm x 19.05 mm	$135.48 \times 10^{-6}$	$1458.32 \times 10^{-6}$
3.81 mm x 19.05 mm	$72.85 \times 10^{-6}$	$781.25 \times 10^{-6}$

The radiation pattern for these light bar devices is approximately Lambertian. The luminous sterance may be calculated using one of the two following formulas:

$$L_v (\text{cd/m}^2) = \frac{I_v (\text{cd})}{A (\text{m}^2)}$$

$$L_v (\text{footlamberts}) = \frac{\pi I_v (\text{cd})}{A (\text{ft}^2)}$$

Refresh rates of 1 kHz or faster provide the most efficient operation resulting in the maximum possible time average luminous intensity.

The time average luminous intensity may be calculated using the relative efficiency characteristic of Figure 3 or 8,  $\eta_{I_{PEAK}}$ , and adjusted for operating ambient temperature. The time average luminous intensity at  $T_A = 25^\circ\text{C}$  is calculated as follows:

$$I_{v \text{ TIME AVG}} = \left[ \frac{I_{AVG}}{I_{TEST}} \right] (\eta_{I_{PEAK}}) (I_v \text{ Data Sheet})$$

where:

$$I_{TEST} = 3 \text{ mA for AlGaAs Red (HLMP-X000 series)} \\ 20 \text{ mA for HER, Yellow and Green (HLMP-2XXX series)}$$

Example:

For HLMP-2735 series

$$\eta_{I_{PEAK}} = 1.18 \text{ at } I_{PEAK} = 48 \text{ mA}$$

$$I_{v \text{ TIME AVG}} = \left[ \frac{12 \text{ mA}}{20 \text{ mA}} \right] (1.18) (35 \text{ mcd}) \\ = 25 \text{ mcd}$$

The time average luminous intensity may be adjusted for operating ambient temperature by the following exponential equation:

$$I_v(T_A) = I_v(25^\circ\text{C})e^{[K(T_A - 25^\circ\text{C})]}$$

Color	K
AlGaAs Red	-0.0095/°C
HER	-0.0131/°C
Yellow	-0.0112/°C
Green	-0.0104/°C

Example:

$$I_v(80^\circ\text{C}) = (25 \text{ mcd})e^{[-0.0112(80-25)]}$$

$$= 14 \text{ mcd.}$$

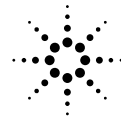
### Mechanical

These light bar devices may be operated in ambient temperatures above +60°C without derating when installed in a PC board configuration that provides a thermal resistance pin to ambient value less than 280°C/W/LED. See Figure 2 or 7 to determine the maximum allowed thermal resistance for the PC board,  $R_{\theta_{PC-A}}$ , which will permit nonderated operation in a given ambient temperature.

To optimize device optical performance, specially developed plastics are used which restrict the solvents that may be used for cleaning. It is recommended that only mixtures of Freon (F113) and alcohol be used for vapor cleaning processes, with an

immersion time in the vapors of less than two (2) minutes maximum. Some suggested vapor cleaning solvents are Freon TE, Genesolv DES, Arklone A or K. A 60°C (140°F) water cleaning process may also be used, which includes a neutralizer rinse (3% ammonia solution or equivalent), a surfactant rinse (1% detergent solution or equivalent), a hot water rinse and a thorough air dry. Room temperature cleaning may be accomplished with Freon T-E35 or T-P35, Ethanol, Isopropanol or water with a mild detergent.

For further information on soldering LEDs please refer to Application Note 1027.



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Obsoletes 5954-8466, 5954-0925,  
5954-0937

5962-7197E (11/99)

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HLMP-2770-EF000

*This Product is Market Released*

### LED Light Bars

#### FEATURES

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Yellow Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

#### APPLICATIONS

#### DESCRIPTION

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in Dual-in-line that contain segmented light emitting areas. The LEDs have their p-n junctions diffused into a GaAsP epitaxial layer on a GaP substrate.

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HLMP-2620-EF000

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

**APPLICATIONS**

**DESCRIPTION**

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line that contain segmented light emitting areas. The LEDs have their p-n junctions diffused into a GaAsP epitaxial layer on a GaP substrate.

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HLMP-2635-EF000

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### LED Light Bars

#### FEATURES

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

#### APPLICATIONS

#### DESCRIPTION

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in Dual-in-line that contain segmented light emitting areas. The LEDs have their p-n junctions diffused into a GaAsP epitaxial layer on a GaP substrate.

#### Product Data Sheets, Specification, and Performance Information

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**LED Light Bars**

**FEATURES**

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- Categorized for Light Output
- Excellent ON-OFF Contrast
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**APPLICATIONS**

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

**APPLICATIONS**

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HLMP-2700-EF000

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Yellow Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

**APPLICATIONS**

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### LED Light Bars

#### FEATURES

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### LED Light Bars

#### FEATURES

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
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**APPLICATIONS**

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HLMP-2820-FG000

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Green Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
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**APPLICATIONS**

**DESCRIPTION**

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line packages that contain segmented light emitting areas.

The Green LEDs use a liquid phase GaP epitaxial layer on a GaP substrate.

**Product Data Sheets, Specification, and Performance Information**

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HLMP-2855-FG000

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### LED Light Bars

#### FEATURES

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HLMP-2870-FG000

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Green Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

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**APPLICATIONS**

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### LED Light Bars

#### FEATURES

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HLMP-2300-EF000

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Excellent ON-OFF Contrast
- X-Y Stackable
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HLMP-2450-EF000

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**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Yellow Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
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HLMP-2550-FG000

*This Product is Market Released*

**LED Light Bars**

**FEATURES**

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Green Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

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**APPLICATIONS**

**DESCRIPTION**

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line packages that contain single light emitting areas.

The Green LEDs use a liquid phase GaP epitaxial layer on a GaP substrate.

**Product Data Sheets, Specification, and Performance Information**

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HLMP-2500-FG000

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### LED Light Bars

#### FEATURES

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Green Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

#### APPLICATIONS

#### DESCRIPTION

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line packages that contain single light emitting areas.

The Green LEDs use a liquid phase GaP epitaxial layer on a GaP substrate.

#### Product Data Sheets, Specification, and Performance Information

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HLMP-2350-EF000

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### LED Light Bars

#### FEATURES

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

#### APPLICATIONS

#### DESCRIPTION

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line that contain single light emitting areas. The LEDs have their p-n junctions diffused into a GaAsP epitaxial layer on a GaP substrate.

#### Product Data Sheets, Specification, and Performance Information

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HLMP-2400-EF000

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### LED Light Bars

#### FEATURES

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Yellow Categorized for Dominant Wavelength
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

#### APPLICATIONS

#### DESCRIPTION

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line that contain single light emitting areas. The LEDs have their p-n junctions diffused into a GaAsP epitaxial layer on a GaP substrate.

#### Product Data Sheets, Specification, and Performance Information

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HLMP-2600-EF000

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### LED Light Bars

#### FEATURES

- Large Bright, Uniform Light Emitting Areas
- Categorized for Light Output
- Excellent ON-OFF Contrast
- X-Y Stackable
- Flush Mountable
- Can be Used with Panel and Legend Mounts
- Light Emitting Surface Suitable for Legend Attachment per Application Note 1012

#### APPLICATIONS

#### DESCRIPTION

The HLMP-2XXX series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line that contain segmented light emitting areas. The LEDs have their p-n junctions diffused into a GaAsP epitaxial layer on a GaP substrate.

#### Product Data Sheets, Specification, and Performance Information

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