# **Excellent Integrated System Limited**

Stocking Distributor

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Fairchild Semiconductor HLMP2B85

For any questions, you can email us directly: <a href="mailto:sales@integrated-circuit.com">sales@integrated-circuit.com</a>





### **Super Bright Blue HLMP-2B85**

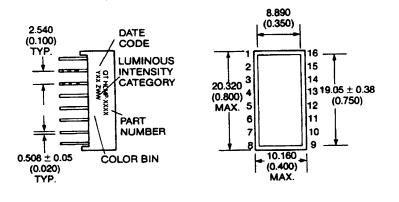
#### PACKAGE DIMENSIONS

#### **DESCRIPTION**

The HLMP-2B85 is, large area light bar utilizing GaN on SiC LED chip.

#### **FEATURES**

19mm by 9mm light emitting area Low power requirement.
Wide 100° viewing angle.
High brightness and contrast
X-Y stack able.
Easy mounting on P.C. board.



0.254 ± 0.05 (0.010)

(0.160) \(\frac{\psi}{\psi}\) MIN.

Dimensions are in mm (inch).

Tolerances are  $\pm$  0.26 (0.1) unless otherwise noted. All pins are 0.5 (.02).

NOTE:

#### **MODEL NUMBER**

Part Number

Colour

**Description** 

HLMP-2B85 Blue Individual LED addressable.

(For other color options, contact your local area Sales Office)

(0.300)





## **ABSOLUTE MAXIMUM RATING** (T<sub>A</sub> = 25°C unless otherwise specified)

		Blue	Units
Peak forward current per segment		100	mA
(Duty cycle 1/10, 1KHz)			
Continous IF per segment		30	mA
Power dissipation per segment		150*	mW
*Derate linearly from 25°C		2.5	mW/°C
Reverse voltage VR per segments	Minimum 5V	Typically 10V	Volts
Operating and storage temperature ra	ınge		25°C to +85°C
Soldering time at 260°C			3 sec
(1/16" below seating plane)			
<b>Electrostatic Discharge Threshold (HI</b>	BM)		200 Volts
ESD is measured by simulating ESD using a r designed to approximate the ESD threshold sl	rapid avalanche energ	y test (RAET). The RAE	

## **ELECTRO - OPTICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise specified)

		Test
	Blue	<u>Condition</u>
Luminous Intensity/Dot		
Digit average (Typical)	3600ucd	$I_F = 20mA$
Forward voltage (V <sub>F</sub> )		
typical	5.0V	$I_F = 20 \text{ mA}$
maximum	5.5V	$I_F = 20 \text{ mA}$
Peak wavelength (nm)	430nm	I <sub>F</sub> = 20 mA
Spectral line half width (nm)	65nm	$I_F = 20mA$
Reverse breakdown voltage V <sub>R</sub>	10V (typically)	$I_R = 100uA$

#### **SPECIAL HANDLING INSTRUCTIONS:**

PLEASE NOTE - THIS DEVICE IS SENSITIVE TO STATIC DISCHARGE - TAKE ESD PRECAUTIONS WHEN HANDLING THIS COMPONENT TO PREVENT FAILURE.

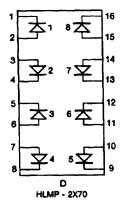




### **PIN CONNECTION: HLMP-2B85**

Pin	Connection
1	Cathode LED 1
2	Anode LED 1
3	Anode LED 2
4	Cathode LED 2
5	Cathode LED 3
6	Anode LED 3
7	Anode LED 4
8	Cathode LED 4
9	Cathode LED 5
10	Anode LED 5
11	Anode LED 6
12	Cathode LED 6
13	Cathode LED 7
14	Anode LED 7
15	Anode LED 8
16	Cathode LED 8

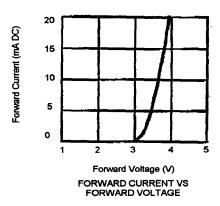
### **SCHEMATIC: : HLMP-2B85**

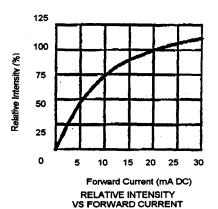


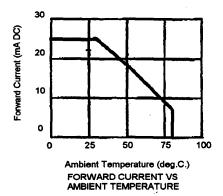


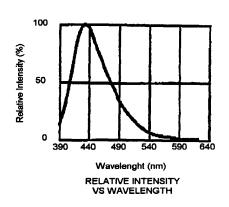


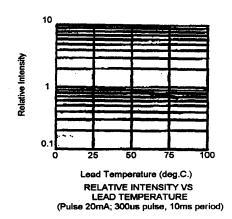
**GRAPHICAL DETAIL: Blue** (T<sub>A</sub> = 25°C unless otherwise specified)

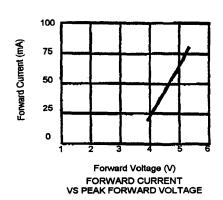








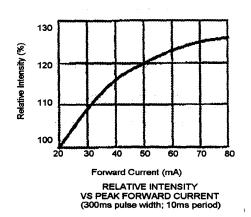


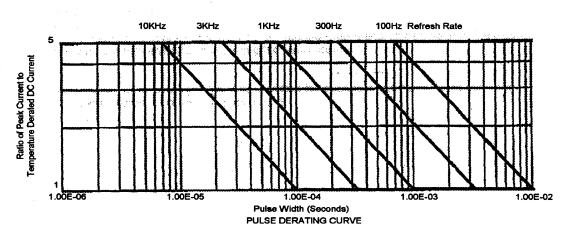






**GRAPHICAL DETAIL: Blue continued** (T<sub>A</sub> = 25°C unless otherwise specified)







#### Distributor of Fairchild Semiconductor: Excellent Integrated System Limited

Datasheet of HLMP2B85 - LED LT BAR BLUE 19X9MM 16-DIP

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



#### LED LIGHT BARS

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