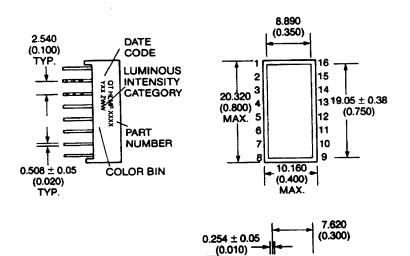


Super Bright Blue HLMP-2B85

PACKAGE DIMENSIONS



4.064 (0.160), MIN,

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.

NOTE: Dimensions are in mm (inch). Tolerances are \pm 0.25 (0.1) unless otherwise noted. All pins are 0.5 (.02).

MODEL NUMBER

Part NumberColourDescriptionHLMP-2B85BlueIndividual LED addressable.(For other color options, contact your local area Sales Office)



ABSOLUTE MAXIMUM RATING ($T_A = 25^{\circ}C$ 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 range25°C to +85°C			25°C to +85°C	
Soldering time at 260°C			3 sec	
(1/16" below seating plane)				
Electrostatic Discharge Threshold (HBM)				
ESD is measured by simulating ESD using a rapid avalanche energy test (RAET). The RAET procedures are designed to approximate the ESD threshold shown. See Special Handling below.				

ELECTRO - OPTICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

	Blue	Test <u>Condition</u>
Luminous Intensity/Dot		
Digit average (Typical)	3600ucd	l _F = 20mA
Forward voltage (V _F)		
typical	5.0V	l _F = 20 mA
maximum	5.5V	l _F = 20 mA
Peak wavelength (nm)	430nm	l _F = 20 mA
Spectral line half width (nm)	65nm	l _F = 20mA
Reverse breakdown voltage V _R	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.

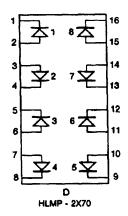


LED LIGHT BARS

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

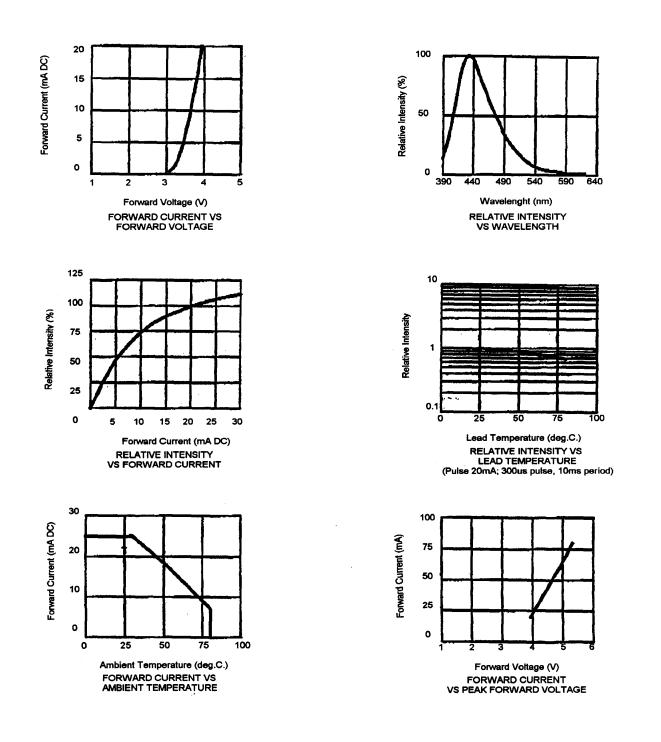
SCHEMATIC: : HLMP-2B85





LED LIGHT BARS

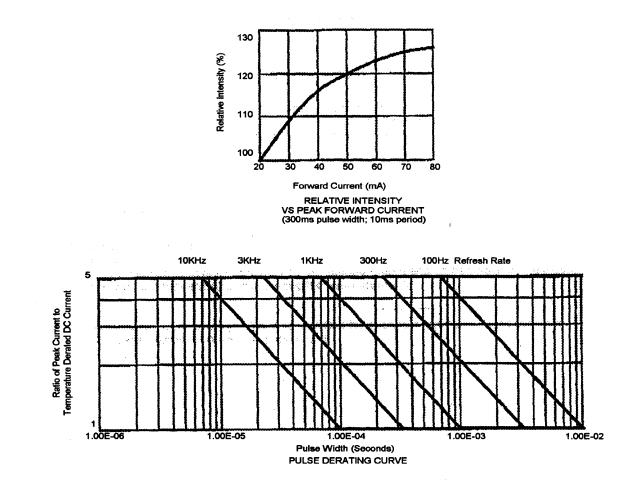
GRAPHICAL DETAIL: Blue (T_A = 25°C unless otherwise specified)





LED LIGHT BARS

GRAPHICAL DETAIL: Blue continued (T_A = 25°C unless otherwise specified)





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