

PRELIMINARY SPEC

P/N: L-7679C1PBC-H



Technical Data



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Description

Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery

Features:

- *High Luminance output.
- *Design for High Current Operation.
- *Uniform Color.
- *Low Power Consumption.
- *Low Thermal Resistance.
- *Low Profile.
- *Packaged in tubes for use with automatic insertion equipment.
- *RoHS Compliant.

Benefits:

*Outstanding Material Efficiency.

must be electrically grounded.

- *Electricity savings.
- *Maintenance savings.
- *Reliable and Rugged.

Typical Applications:

- *Automotive Exterior Lighting.
- *Electronic Signs and Signals.

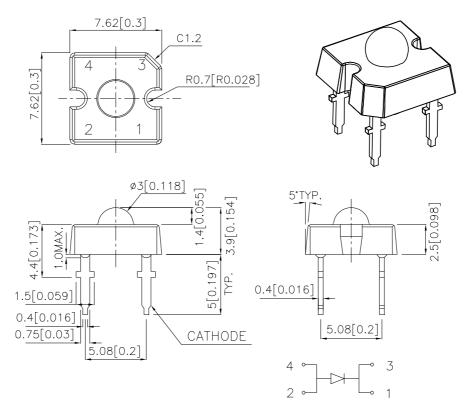
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*Specialty Lighting.

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Outline Drawings



- Notes:
 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.25(0.01") unless otherwise noted.
 3. Lead spacing is measured where the leads emerge from the package.
 4. Specifications are subject to change without notice.

Absolute Maximum Ratings at TA=25°C

PARAMETER	РВ-Н	UNITS	
DC Forward Current ^[1]	50	mA	
Power dissipation	235	mW	
Reverse Voltage	5	V	
Operating Temperature	-40 To +85	° C	
Storage Temperature	-55 To +85	° C	
Lead Solder Temperature ^[2]	260°C For 5 Seconds		

1.Derate as shown in Figures 4.

2.1.5mm[0.06inch]below seating plane.

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Selection Guide

Part No.	LED COLOR	lv(cd) ^[1] @50mA		Viewing Angle ^[2] 2 0 1/2	
		Min.	Тур.	Тур.	
L-7679C1PBC-H	InGaN BLUE	1.2	2.4	70°	

Notes

Optical Characteristics at TA=25°C IF=50mA R_{0j-a}=200°C/W

DEVICE	PEAK	DOMINANT ^[1]	SPECTRAL LINE	
	WAVELENGTH	WAVELENGTH	WAVELENGTH	
TYPE	λΡΕΑΚ (nm)	λDOM (nm)	Δλ1/2(nm)	
	TYP.	TYP.	TYP.	
РВ-Н	467	470	30	

NOTE:

Electrical Characteristics at TA=25°C

DEVICE TYPE	FORWARD VOLTAGE VF(VOLTS) @ IF=50mA		REVERSE CURRENT IR (uA) @ VR=5V	CAPACITANCE C (pF) @ V _F =0V F=1MHZ	THERMAL RESISTANCE Rθj-pin °C/W	
	MIN.	TYP.	MAX.	MAX.	TYP.	TYP.
PB-H	3.8	4.4	4.7	10	110	130

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^{1.}Luminous intensity is measured with an integrating sphere after the device has stabilized.

^{2.01/2} is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

^{1.}The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.

Figures

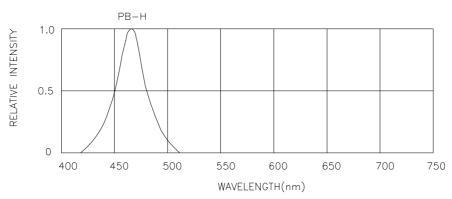
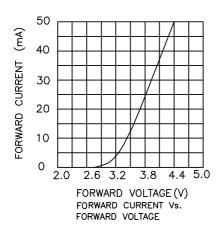
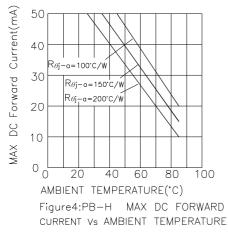
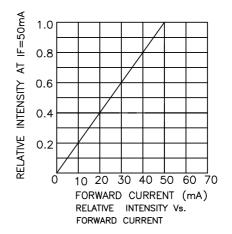
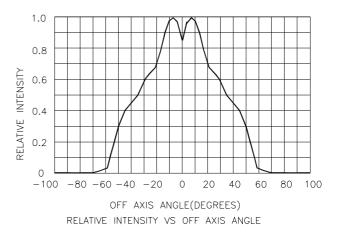


Figure 1: RELATIVE INTENSITY VS. WAVELENGTH









Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity/ luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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