



OVLLB8C7

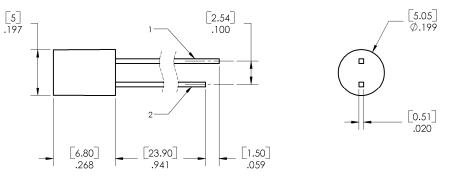
- Wide viewing angle
- High-brightness indicator
- Industry standard lead spacing
- Unique lens shape for flexible applications

The **OVLLB8C7** is designed for superior performance in signage and lighting applications that require wide-angle, uniform light output. This device combines a high-intensity InGaN LED with a unique flat-topped T-1³/₄ package to provide both high brightness and a wide spatial radiation pattern.

Applications

- Channel letter and other signage backlighting
- Decorative architectural indoor and outdoor lighting accents
- Industrial and consumer indicators

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVLLB8C7	InGaN	Blue	300	Water Clear



1 ANODE 2 CATHODE DIMENSIONS ARE IN INCHES AND [MILLIMETERS].





OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.



Absolute Maximum Ratings $T_{A} = 25^{\circ} C$ unless otherwise noted

$I_A = 25^{\circ}C$ unless otherwise noted		
Storage Temperature Range	-40 ~ +100 ° C	
Operating Temperature Range	-40 ~ +85°C	
Reverse Voltage	5 V	
Continuous Forward Current	20 mA	
Peak Forward Current (10% Duty Cycle, 1KHz)	50 mA	
Power Dissipation	80 mW	
Lead Soldering Temperature (4mm from the base of the epoxy bulb) ¹	260°C	
LED Junction Temperature	125°C	
Current Linearity vs. Ambient Temperature	-0.2 mA/° C	

Note:

1. Solder time less than 5 seconds at temperature extreme.

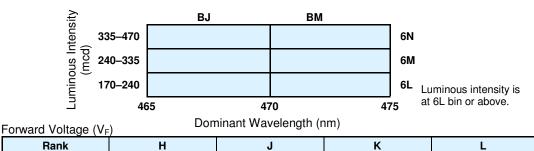
Electrical Characteristics

$T_A = 25^{\circ} C$ unless otherwise noted

SYMBOL	PARAMETER	MIN	ТҮР	МАХ	UNITS	CONDITIONS
l _v	Luminous Intensity	170	300		mcd	I _F = 20 mA
V _F	Forward Voltage		3.4	4.0	V	I _F = 20 mA
I _R	Reverse Current			50	μA	$V_R = 5 V$
λ_{P}	Peak Wavelength		466		nm	I _F = 20 mA
λ_{D}	Dominant Wavelength		470		nm	I _F = 20 mA
2⊝¹⁄₂H-H	50% Power Angle		85		deg	I _F = 20 mA

Standard Bins $(I_F = 20 \text{ mA})$

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) bins shown. Orders for OVLLB8C7 may be filled with any or all bins contained as below.



3.0-3.3

Notes:

1. All ranks will be included per delivery, rank ratio will be based on the chip distribution.

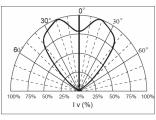
2.6-3.0

2. To designate luminous intensity ranks, please contact OPTEK.

Voltage

3. Pb content <1000 PPM.

Beam Pattern



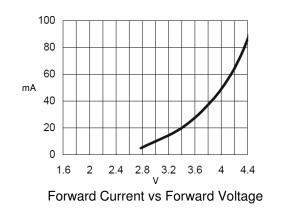
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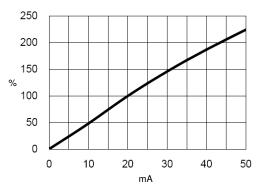
3.3–3.6

3.6-4.0

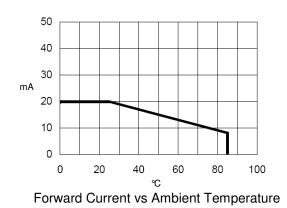


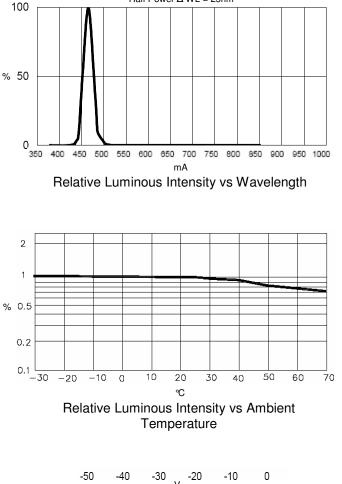
Typical Electro-Optical Characteristics Curves



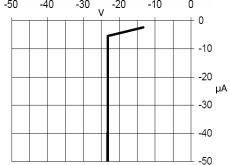


Relative Luminous Intensity vs Forward Current





Half Power Δ WL = 25nm



Reverse Current vs Reverse Voltage

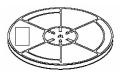
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Packing Information: Available in bulk or reel

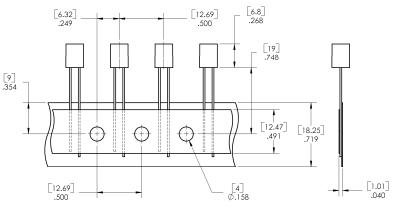


Bulk: 500 pcs/bag



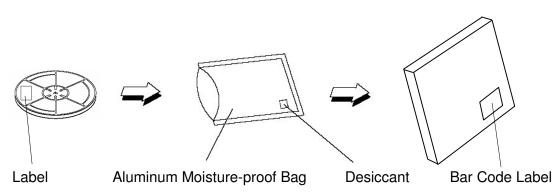
13-inch reel: 2000 pcs/reel

Carrier Tape Dimensions: Loaded quantity 2000 pieces per reel



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Moisture Resistant Packaging



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