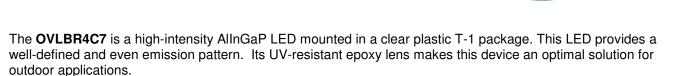
Round Red Through-Hole LED Lamp (3 mm)



OVLBR4C7

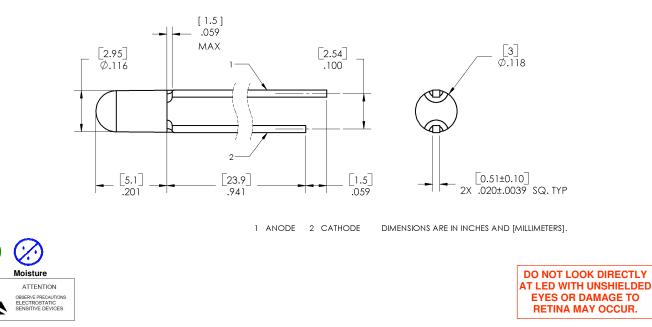
- High brightness with well-defined spatial radiation patterns
- UV-resistant epoxy lens
- Red (623 nm)



Applications

- Pedestrian signals
- Signage and architectural lighting
- Backlighting
- Automotive
- Outdoor/indoor displays

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVLBR4C7	AllnGaP	Red	1800	Water Clear





Absolute Maximum Ratings

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

Storage Temperature Range	-40 ~ +100°C	
Operating Temperature Range	-40 ~ +85° C	
Reverse Voltage	5 V	
Continuous Forward Current	30 mA	
Peak Forward Current (10% Duty Cycle, 1 KHz)	100 mA	
Power Dissipation	78 mW	
Current Linearity vs. Ambient Temperature	-0.5 mA/° C	
LED Junction Temperature	125°C	
Lead Soldering Temperature (3 mm from the base of the epoxy bulb) ¹	260°C	

Note:

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

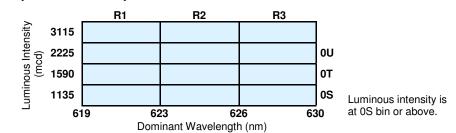
Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
l _v	Luminous Intensity	1135	1800		mcd	I _F = 20 mA
V _F	Forward Voltage		2.2	2.6	V	I _F = 20 mA
I _R	Reverse Current			10	μA	$V_R = 5 V$
λ _P	Peak Wavelength		633		nm	I _F = 20 mA
λ _D	Dominant Wavelength	619	623	630	nm	I _F = 20 mA
2Θ½H-H	50% Power Angle		45		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 OVLBR4C7 may be filled with any or all bins contained as below.



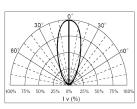
Forward Voltage (V_F)

Rank	G	Н	J	6
Voltage	1.8–2.0	2.0–2.2	2.2–2.4	2.4–2.6

Important Notes:

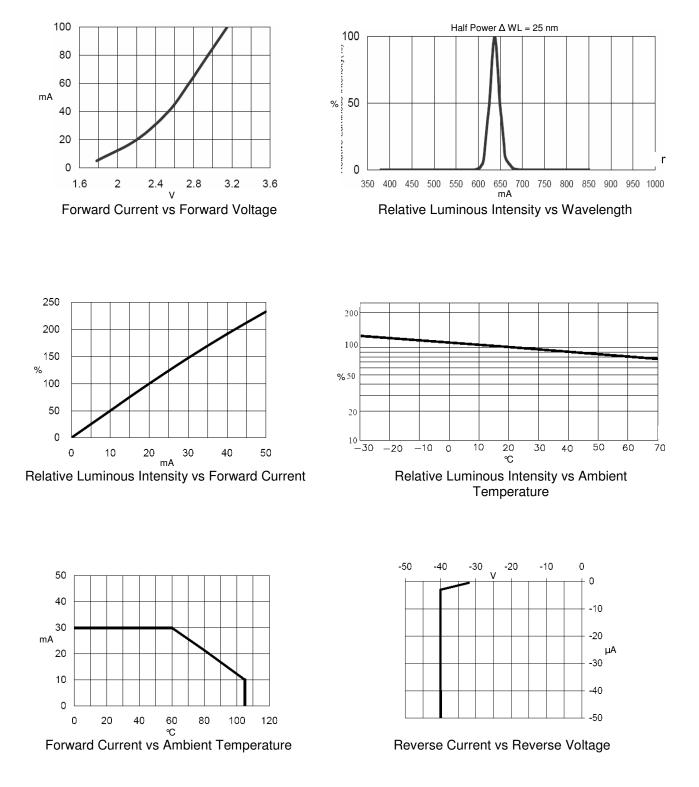
- 1. All ranks will be included per delivery, rank ratio will be based on the chip distribution.
- 2. To designate luminous intensity ranks, please contact OPTEK.
- 3. Pb content <1000 PPM.

Beam Pattern



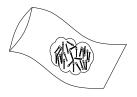


Typical Electro-Optical Characteristics Curves

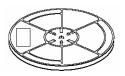




Packing Information: Available in bulk or reel

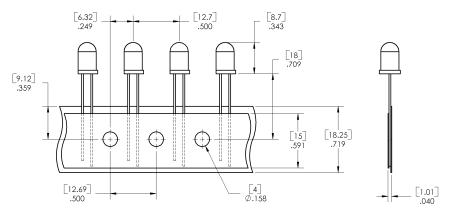


Bulk: 500 pcs/bag



13-Inch reel: 2500 pcs/reel

Carrier Tape Dimensions: Loaded quantity 2500 pieces per reel



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].

Moisture Resistant Packaging

