(5 mm, 15º Viewing Angle)

OVLEW1CB9

Features:

- Narrow beam angle
- High luminous intensity
- Water clear plastic package
- InGaN White
- Pb-free





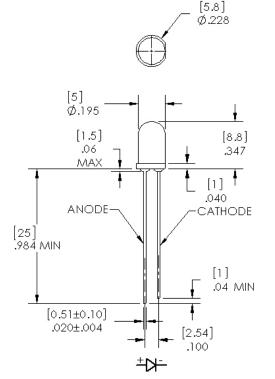
Description:

The round **OVLEW1CB9** is designed for applications that require a focused high luminous output, such as indoor and outdoor displays, marker lights and optical indicators. The phosphor used in the reflector converts the blue emission of the InGaN chip to the ideal white light.

Applications:

- Indoor/outdoor displays and applications
- Message boards
- Store front signage
- Indicators

| Part Number | Material | Emitted Color | Intensity Typ. mcd | Lens Color |
|-------------|----------|---------------|--------------------|------------|
| OVLEW1CB9 | InGaN | White | 35,000 | Clear |



ALL DIMENSIONS ARE IN INCHES [MM].

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE ±.010 [.25].



DO NOT LOOK DIRECTLY AT LED WITH UNSHIELDED EYES OR DAMAGE TO RETINA MAY OCCUR.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

OVLEW1CB9



Electrical Specifications

| Absolute Maximum Ratings (T _A = 25° C unless otherwise noted) | | | | |
|--|----------------|--|--|--|
| Storage Temperature Range | -40 ~ +100 ° C | | | |
| Operating Temperature Range | -40 ~ +95 ° C | | | |
| Reverse Voltage | 5 V | | | |
| Continuous Forward Current | 30 mA | | | |
| Peak Forward Current (10% Duty Cycle, 1 KHz) | 100 mA | | | |
| Power Dissipation | 120 mW | | | |
| Lead Soldering Temperature (3 mm from the base of the epoxy bulb / 3 seconds max). | 260° C | | | |
| Electrostatic Discharge Classification (JEDEC-JESD22-A114F) | Class 2 | | | |

| Electrical Characteristics (T _A = 25° C unless otherwise noted) | | | | | | | | |
|--|--------------------------|--------|--------|--------|-------|------------------------|--|--|
| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS | | |
| I _V | Luminous Intensity | 20,150 | 35,000 | 46,100 | mcd | I _F = 20 mA | | |
| V _F | Forward Voltage | | 3.2 | 4.0 | V | I _F = 20 mA | | |
| I _R | Reverse Current | | | 100 | μΑ | V _R = 5 V | | |
| 2 0½ | 50% Power Angle | | 15 | | deg | I _F = 20 mA | | |
| х | Charamatiaita Canadinata | | 0.2895 | | | I _F = 20 mA | | |
| У | Chromaticity Coordinates | | 0.2905 | | | I _F = 20 mA | | |

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OVLEW1CB9



Performance

Typical Electro-Optical Characteristics Curves

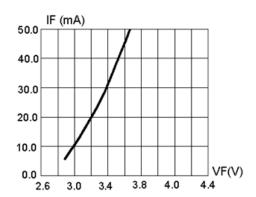


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

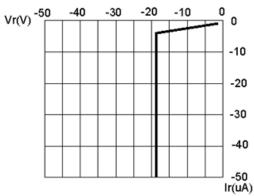
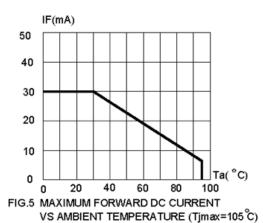


FIG.3 REVERSE CURRENT VS. REVERSE VOLTAGE.



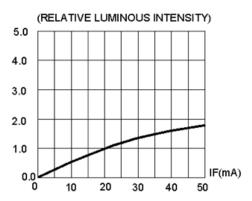


FIG.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

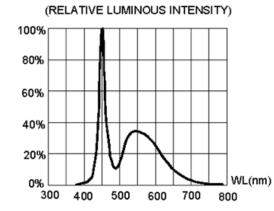
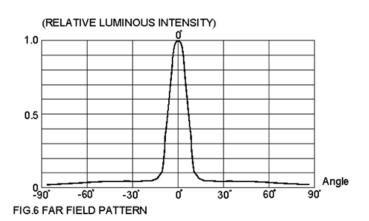


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.



OVLEW1CB9



Packaging

Packaging: 500 pcs per anti-static bag with desiccant

