White High-Intensity LED Lamp (5 mm, 15° Viewing Angle)



OVLEW1CB9

Features:

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



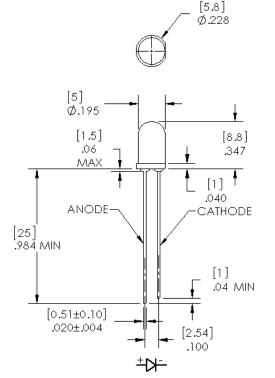
Description:

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.

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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	ТҮР	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 Θ½	50% Power Angle		15		deg	I _F = 20 mA
х	Chromoticity Coordinates		0.2895			I _F = 20 mA
У	Chromaticity Coordinates		0.2905			I _F = 20 mA

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Performance

Typical Electro-Optical Characteristics Curves

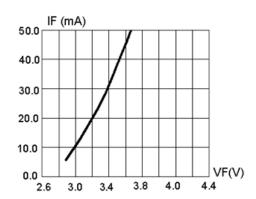


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

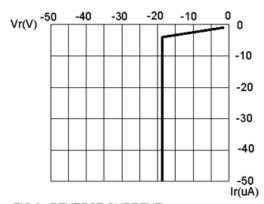
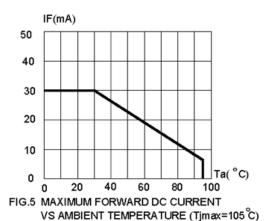


FIG.3 REVERSE CURRENT VS. REVERSE VOLTAGE.



(RELATIVE LUMINOUS INTENSITY)
5.0
4.0
3.0
2.0
1.0
0.0

FIG.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

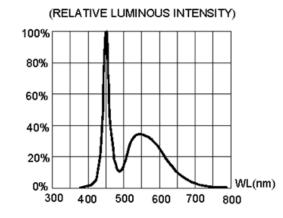
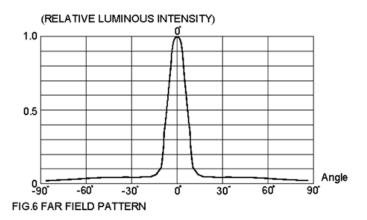


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.



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Packaging

Packaging: 500 pcs per anti-static bag with desiccant

