

OVLAB6CB8 Datasheet



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DiGi Electronics Part Number	OVLAB6CB8-DG
Manufacturer	TT Electronics/Optek Technology
Manufacturer Product Number	OVLAB6CB8
Description	LED BLUE DIFFUSED 3MM T/H
Detailed Description	Blue 470nm LED Indication - Discrete 3.6V Radial

This model OVLAB6CB8 is available at DiGi Electronics.

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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

OVLAB6CB8

Series:

-

Color:

Blue

Lens Color:

White

Millicandela Rating:

600mcd

Lens Size:

3.20mm Dia

Current - Test:

20mA

Mounting Type:

Through Hole

Wavelength - Peak:

-

Package / Case:

Radial

Size / Dimension:

-

Manufacturer:

TT Electronics/Optek Technology

Product Status:

Obsolete

Configuration:

Standard

Lens Transparency:

Diffused

Lens Style:

Round with Domed Top

Voltage - Forward (Vf) (Typ):

3.6V

Viewing Angle:

65°

Wavelength - Dominant:

470nm

Features:

-

Supplier Device Package:

3mm

Height (Max):

9.50mm

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

REACH Status:

REACH Unaffected

HTSUS:

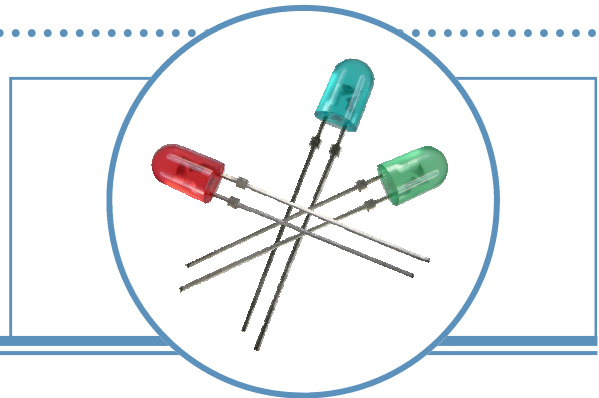
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Round Blue LED Lamp (3mm)



OVLAB6CB8

- 65° viewing angle
- Diffused lens for uniform light output
- Available on tape or reel
- Blue color (470nm)

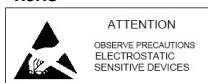
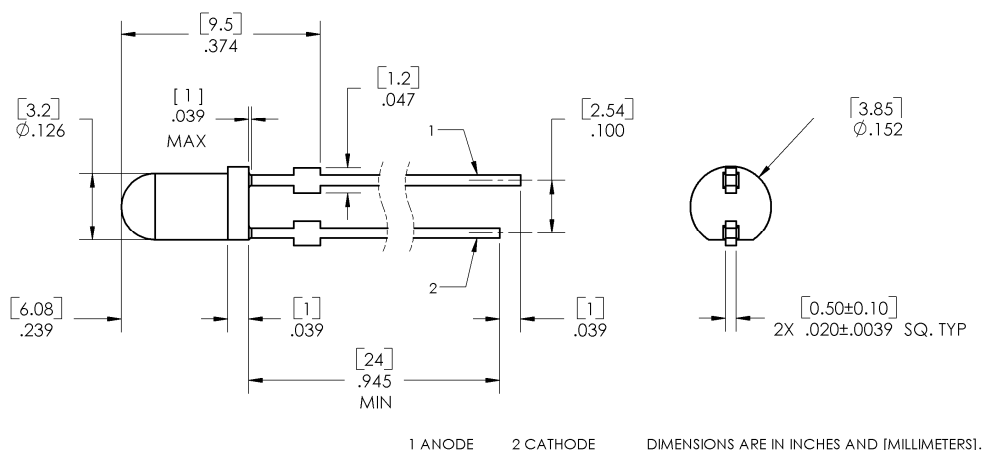


The OVLAB6CB8 is designed for wide-angle, uniform light output. The industry standard leads have a stand-off making this package ideal for PC board process assembly.

Applications

- Indicators for Medical, Industrial, Consumer, and Office Equipment
- Indicators for White Goods and Home Appliances
- Interior and Exterior Architectural and Accent Lighting
- Signs and Digital Information Displays, Video Screen Non-color and RGB Presentation
- Automotive Backlighting and Indicators

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVLAB6CB8	InGaN	Blue	600	White Diffused



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

Round Blue LED Lamp (3mm)

OVLAB6CB8



Absolute Maximum Ratings

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

Storage Temperature Range	-40 ~ +100 °C
Operating Temperature Range	-40 ~ +95 °C
Reverse Voltage	5 V
Continuous Forward Current	25 mA
Peak Forward Current (10% Duty Cycle, 1KHz)	100 mA
Power Dissipation	105 mW
Lead Soldering Temperature (3mm from the base of the epoxy bulb) ¹	260 °C

Note:

- Solder time less than 3 seconds at temperature extreme.

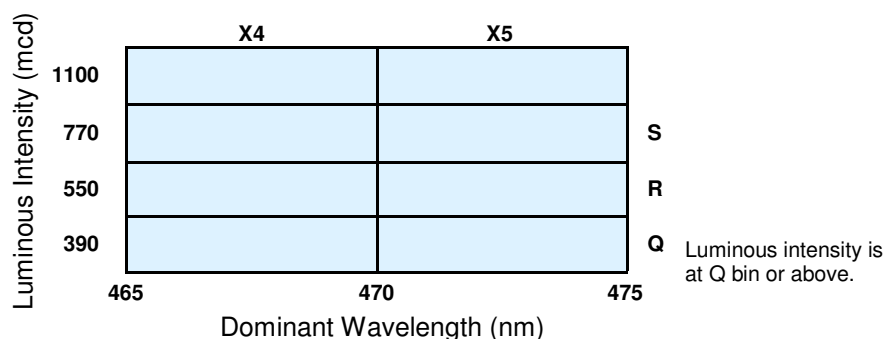
Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I_V	Luminous Intensity	390	600	----	mcd	$I_F = 20\text{mA}$
V_F	Forward Voltage	----	3.6	4.2	V	$I_F = 20\text{mA}$
V_F	Forward Voltage	1.7	----	2.5	V	$I_F = 1.0\mu\text{A}$
I_R	Reverse Current	----	----	100	μA	$V_R = 5\text{V}$
λ_D	Dominant Wavelength	465	470	475	nm	$I_F = 20\text{mA}$
2 $\Theta_{1/2}$ H-H	50% Power Angle	----	65	----	deg	$I_F = 20\text{mA}$

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

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) bins shown. Orders for OVLAB6CB8 may be filled with any or all bins contained as below.



Forward Voltage (V_F)

Rank	V8	V9	V10	V11	V12	V13
Voltage (V)	3.0–3.2	3.2–3.4	3.4–3.6	3.6–3.8	3.8–4.0	4.0–4.2

Important Notes:

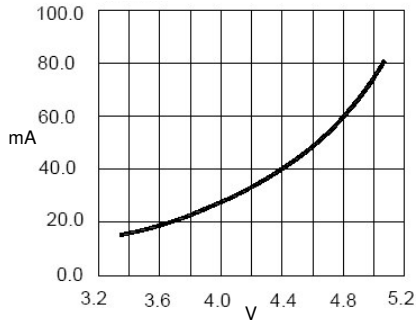
- All ranks will be included per delivery, rank ratio will be based on the chip distribution.
- To designate luminous intensity ranks, please contact OPTEK.
- Pb content <1000PPM.

Round Blue LED Lamp (3mm)

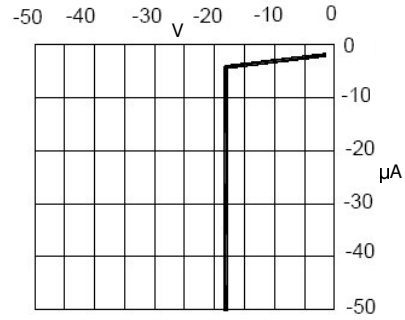
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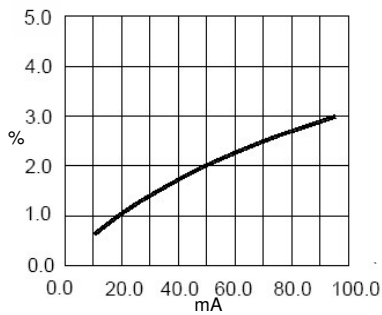
Typical Electro-Optical Characteristics Curves



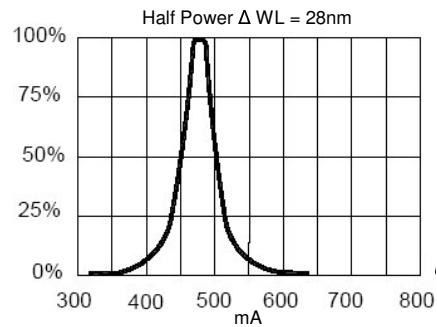
Forward Current vs. Forward Voltage



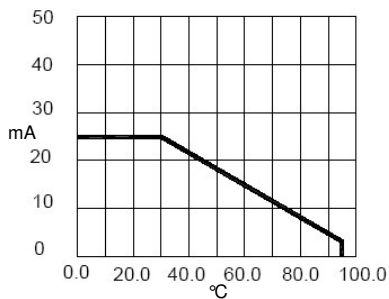
Reverse Current vs. Reverse Voltage



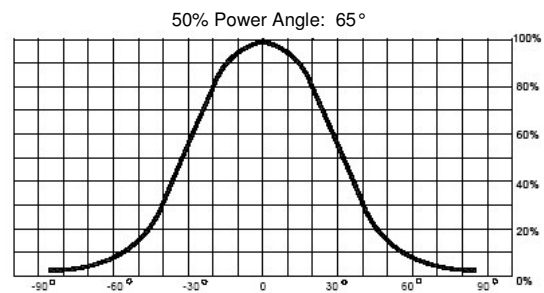
Relative Luminous Intensity vs. Forward Current



Relative Luminous Intensity vs. Wavelength



Maximum Forward DC Current vs. Ambient Temperature



Far Field Pattern

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