



# 4-Pin Blue LED Lamp (7.6mm)

## OVFSB6C8

### Absolute Maximum Ratings

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

Storage Temperature Range	-40 ~ +100 °C
Operating Temperature Range	-40 ~ +100 °C
Lead Soldering Temperature (3mm from the base of the epoxy bulb) <sup>1</sup>	260 °C
Reverse Voltage	5 V
Continuous Forward Current <sup>2</sup>	30 mA
Peak Forward Current (10% Duty Cycle, PW ≤ 100 μsec)	100 mA
Power Dissipation	140 mW

Notes:

1. Solder time less than 3 seconds at temperature extreme.

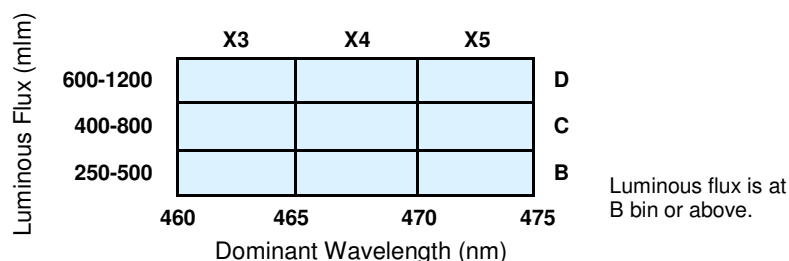
### Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
lumen	Luminous Flux	250	850	----	mlm	$I_F = 30\text{mA}$
$V_F$	Forward Voltage	----	4.0	4.6	V	$I_F = 30\text{mA}$
$I_R$	Reverse Current	----	----	100	μA	$V_R = 5\text{V}$
$\lambda_D$	Dominant Wavelength	462	470	475	nm	$I_F = 30\text{mA}$
2 $\Theta_{1/2}$	50% Power Angle	----	60	----	deg	$I_F = 30\text{mA}$

### Standard Bins ( $I_F = 30\text{mA}$ )

Lamps are sorted to luminous flux ( $\Phi_V$ ), forward voltage ( $V_F$ ), and dominant wavelength ( $\lambda_D$ ) bins shown. Orders for OVFSB6C8 may be filled with any or all bins contained as below.



Forward Voltage ( $V_F$ )

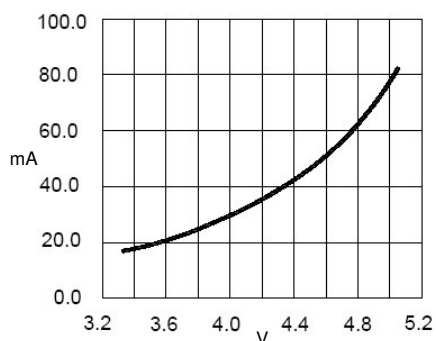
Rank	V9	V10	V11	V12	V13	V14	V15
Voltage (V)	3.2–3.4	3.4–3.6	3.6–3.8	3.8–4.0	4.0–4.2	4.2–4.4	4.4–4.6

### Important Notes:

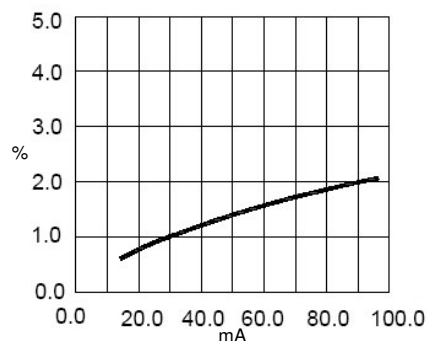
1. All ranks will be included per delivery, rank ratio will be based on the chip distribution.
2. To designate luminous intensity ranks, please contact OPTEK.

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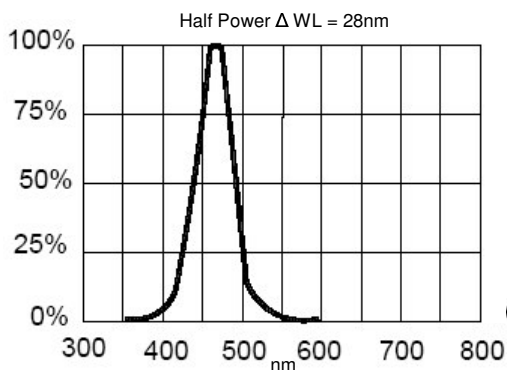
## Typical Electro-Optical Characteristics Curves



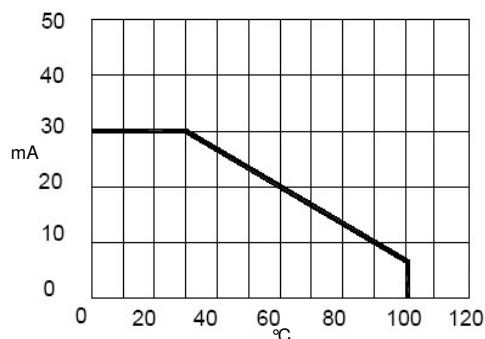
Forward Current vs. Forward Voltage



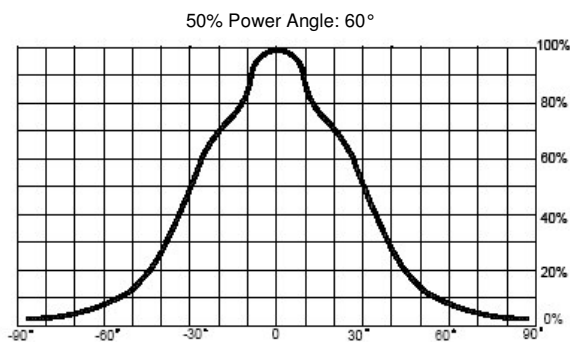
Relative Luminous Flux vs. Forward Current



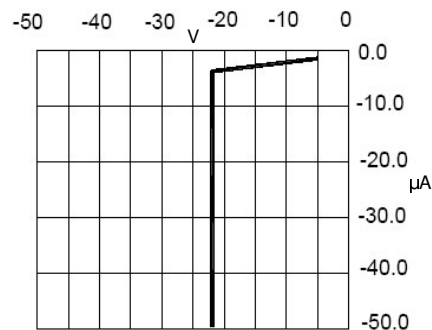
Relative Luminous Flux vs. Wavelength



Maximum Forward DC Current vs. Ambient Temperature



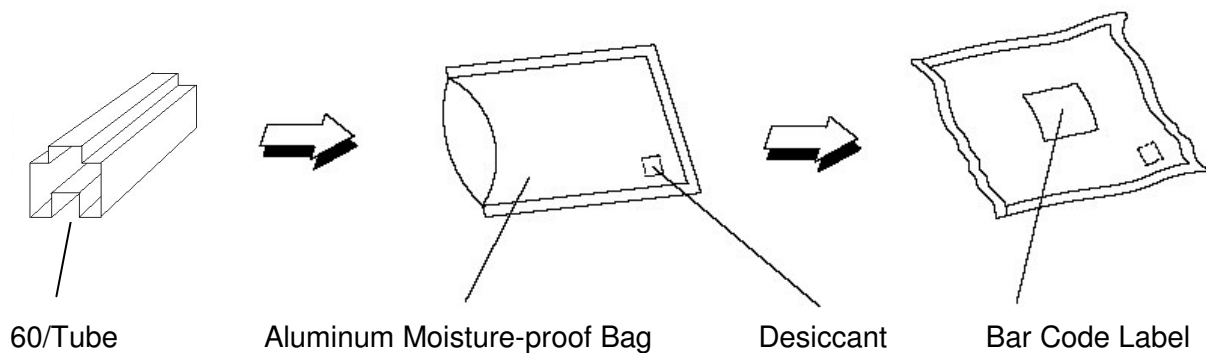
Far Field Pattern



Reverse Current vs. Reverse Voltage

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## Moisture Resistant Packaging



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[illegible]