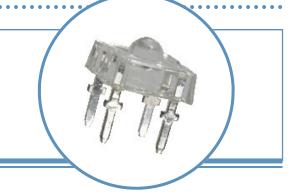
4-Pin Blue LED Lamp (7.6mm)



OVFSB6C8

- Packaged in tubes
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Mono-color type
- Pb-free

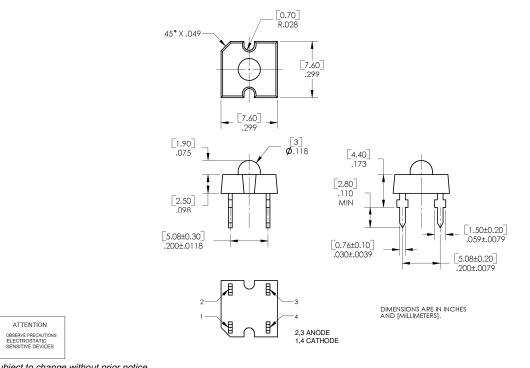


The OVFSB6C8 is designed with higher forward voltage to maximize brightness and incorporates a low-profile lens to enhance efficient light distribution. Response time is fast and it consumes less power resulting in low current requirements from circuit power supply. Tubular arrays replace neon in outdoor and indoor signs. This square package allows high-density arrays to form light engines.

Applications

- Automotive: Rear Stop/Turn Signal Lamps/Truck Marker Lamps
 - Mood-setting Decoration and Landscape Lighting
 - Special Decorative Interior/Exterior Lighting
 - Special Effects Stage Lighting
- Illumination for Signs and Channel Letters

Part Number	Part Number Material		Flux Typ. mlm	Lens Color	
OVFSB6C8	InGaN	Blue	850	Water Clear	



Data is subject to change without prior notice.



Absolute Maximum Ratings

I _A = 25° 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) ¹	260 ℃
Reverse Voltage	5 V
Continuous Forward Current ²	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.

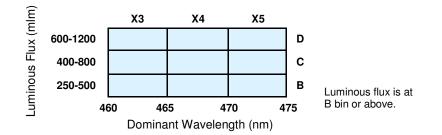
Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	ТҮР	MAX	UNITS	CONDITIONS
lumen	Luminous Flux	250	850		mlm	I _F = 30mA
V _F	Forward Voltage		4.0	4.6	V	$I_F = 30 \text{mA}$
I _R	Reverse Current			100	μA	$V_R = 5V$
λ_{D}	Dominant Wavelength	462	470	475	nm	$I_F = 30 \text{mA}$
2 Θ1⁄2	50% Power Angle		60		deg	I _F = 30mA

Standard Bins (I_F = 30mA)

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



Forward Voltage (V_F)

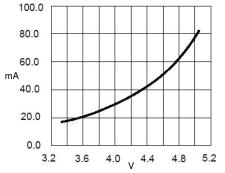
Rank	V9	V10	V11	V12	V13	V14	V15
Voltage (V)	3.2–3.4	3.4–3.6	3.6–3.8	3.8–4.0	4.0-4.2	4.2–4.4	4.4–4.6

Important Notes:

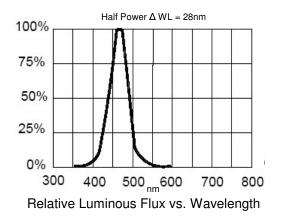
- 1. All ranks will be included per delivery, rank ratio will be based on the chip distribution.
- 2. To designate luminous intensity ranks, please contact OPTEK.

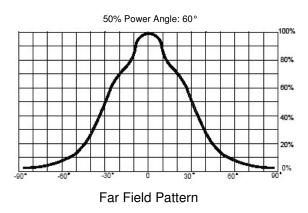


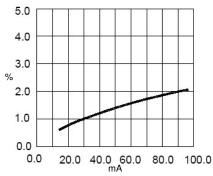
Typical Electro-Optical Characteristics Curves



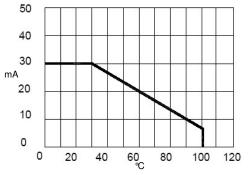
Forward Current vs. Forward Voltage



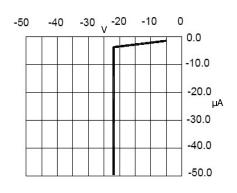




Relative Luminous Flux vs. Forward Current



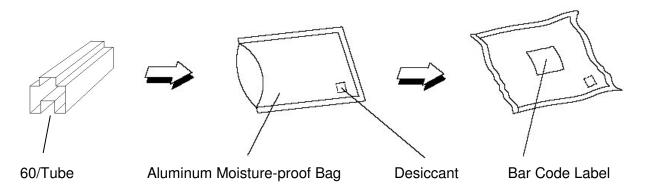
Maximum Forward DC Current vs. Ambient Temperature



Reverse Current vs. Reverse Voltage



Moisture Resistant Packaging



4-Pin Blue LED Lamp (7.6mm) OVFSB6C8



Change Description	Approval	Date
Initial Release	R. Bailey	5/19/05