

4-Pin White LED Lamp (7.6 mm)

OVFSW6C8

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

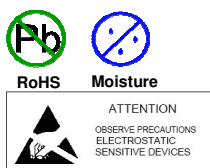
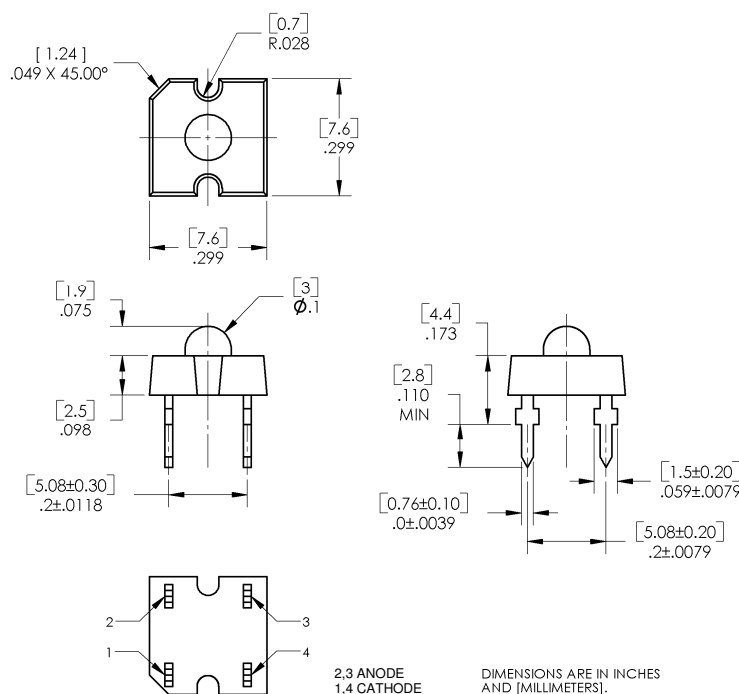


The **OVFSW6C8** is designed with higher forward voltage to maximize brightness and incorporates a low-profile lens to enhance efficient light distribution. Response time is fast and consumes less power, resulting in low current requirements from circuit power supply. Tubular arrays replace neon in outdoor 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	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVFSW6C8	InGaN	White	1200	Water Clear



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

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

4-Pin White LED Lamp

OVFSW6C8

Absolute Maximum Ratings

T_A = 25° C unless otherwise noted

Storage Temperature Range	-30 ~ +80° C
Operating Temperature Range	-20 ~ +75° C
Lead Soldering Temperature (3 mm from the base of the epoxy bulb) ¹	260° C
Reverse Voltage	5 V
Continuous Forward Current	30 mA
Peak Forward Current (10% Duty Cycle, PW ≤ 100 μsec)	100 mA
Power Dissipation	140 mW

Note:

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

Electrical Characteristics

T_A = 25° C unless otherwise noted

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I _V	Luminous Intensity	770	1200	----	mcd	I _F = 30 mA
V _F	Forward Voltage	----	4.0	4.6	V	I _F = 30 mA
I _R	Reverse Current	----	----	100	μA	V _R = 5 V
x	Chromaticity Coordinates	----	0.31	----	----	I _F = 30 mA
y		----	0.32	----	----	I _F = 30 mA
2 Θ _{1/2}	50% Power Angle	----	60	----	deg	I _F = 30 mA

Standard Bins (I_F = 30 mA)

Lamps are sorted to luminous intensity (I_V), forward voltage (V_F), and dominant wavelength (λ_D) bins shown. Orders for OVFSW6C8 may be filled with any or all bins contained as below.

Luminous Intensity (mcd)	Chromaticity Coordinates				
	A	B1	B2	C	
	1520-2130				
	1100-1520				
770-1100					S

Luminous intensity is at S bin or above.

Rank		A				B1				B2				C			
Chromaticity Coordinates	x	0.280	0.264	0.283	0.296	0.287	0.283	0.330	0.330	0.296	0.287	0.330	0.330	0.330	0.330	0.361	0.356
	y	0.248	0.267	0.305	0.276	0.295	0.305	0.360	0.339	0.276	0.295	0.339	0.318	0.318	0.360	0.385	0.351

Forward Voltage (V_F)

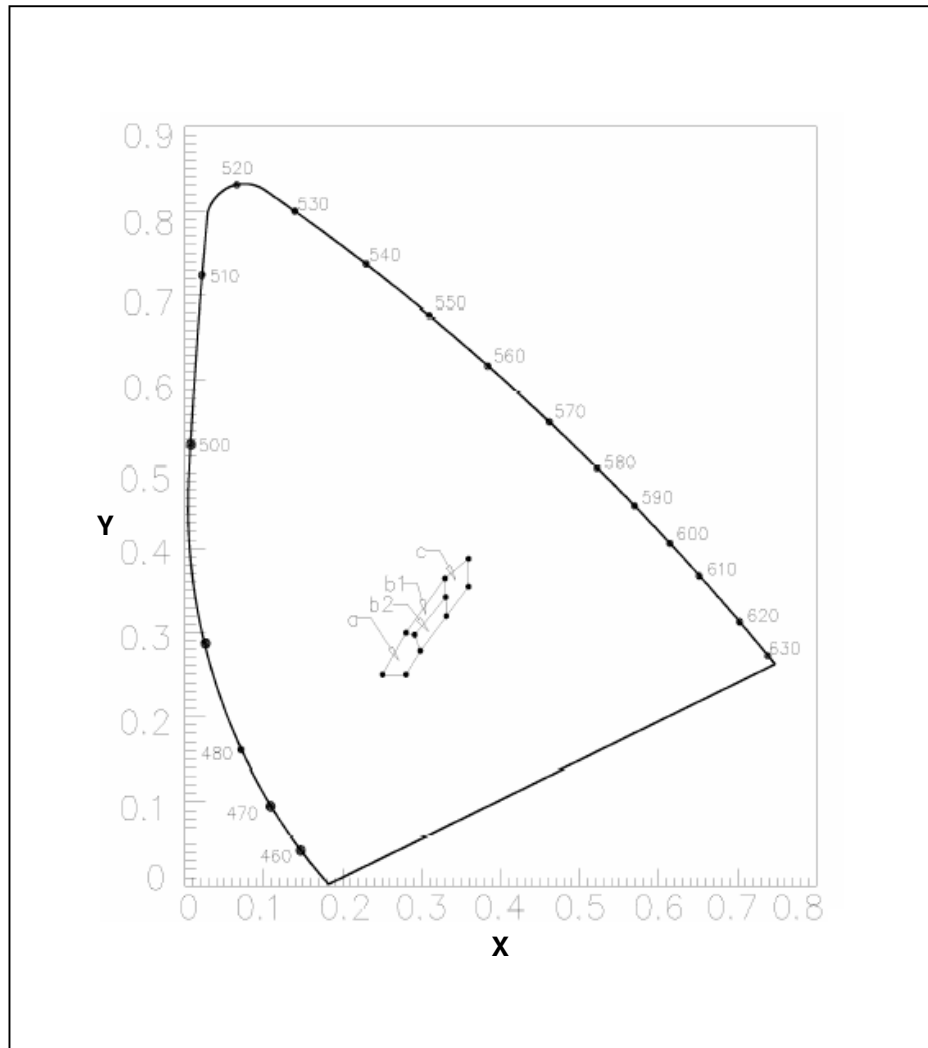
Rank	V10	V11	V12	V13	V14	V15
Voltage (V)	3.4–3.6	3.6–3.8	3.8–4.0	4.0–4.2	4.2–4.4	4.4–4.6

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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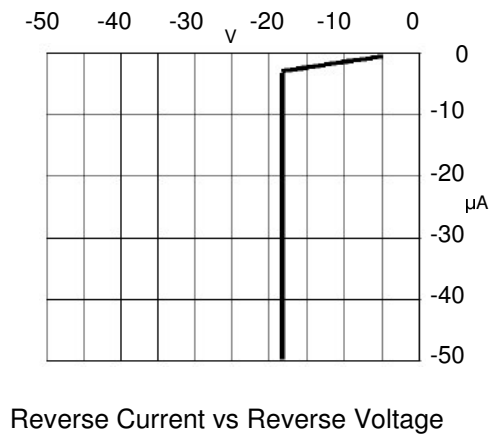
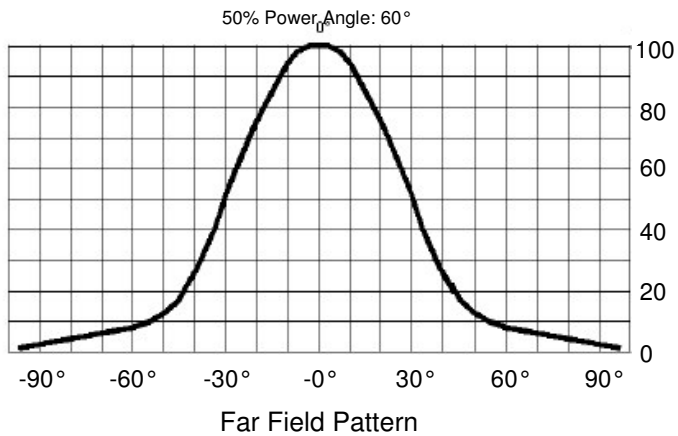
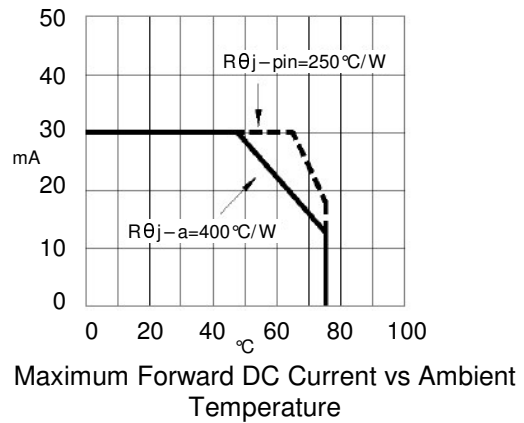
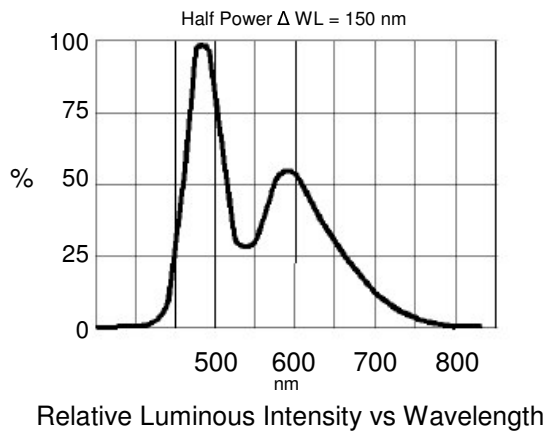
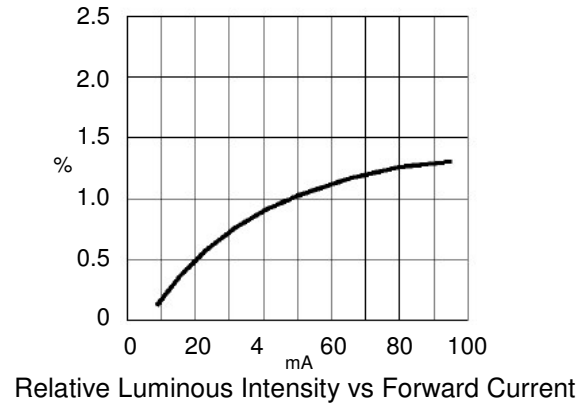
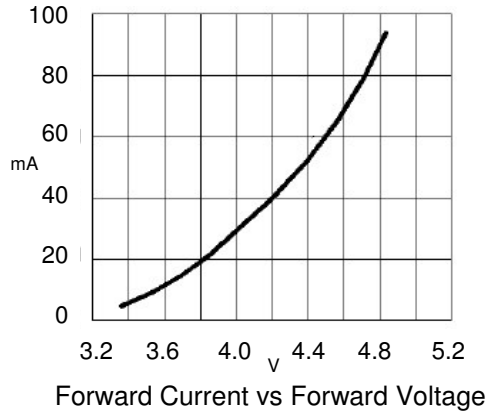
CIE Chromaticity Diagram



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4-Pin White LED Lamp OVFSW6C8

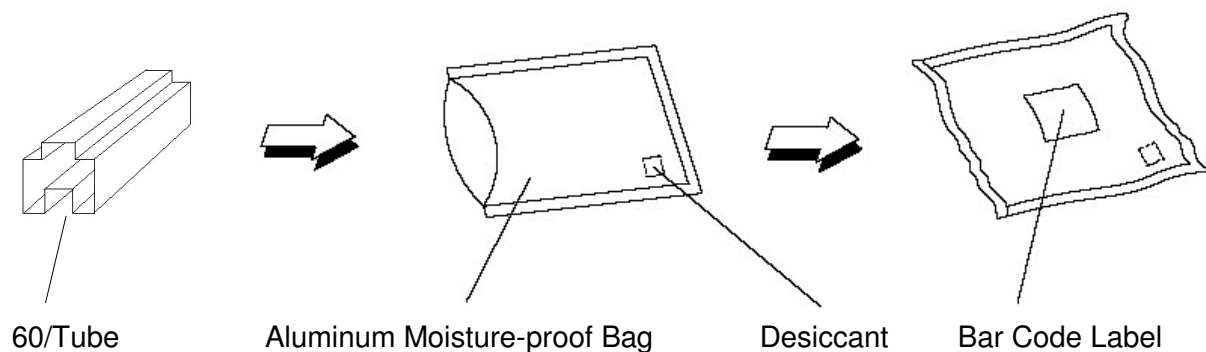
Typical Electro-Optical Characteristics Curves



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4-Pin White LED Lamp OVFSW6C8

Moisture Resistant Packaging



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