4-Pin Green LED Lamp (7.6 mm)



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





The **OVFSG6C8** 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
- Traffic signals, pedestrian and walkway signs







Absolute Maximum Ratings $T_{A} = 25^{\circ} C$ unless otherwise noted

Storage Temperature Range	-40 ~ +100 ° C
Operating Temperature Range	-40 ~ +100 ° C
Lead Soldering Temperature (3 mm from the base of the epoxy bulb) ¹	260°C
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	SYMBOL PARAMETER		MIN TYP		UNITS	CONDITIONS	
lumen	Luminous Flux	1500	2500		mlm	I _F = 30 mA	
V _F	Forward Voltage		4.0	4.6	V	I _F = 30 mA	
I _R	Reverse Current			100	μA	$V_R = 5 V$	
λ_{D}	Dominant Wavelength	515	527	535	nm	I _F = 30 mA	
2 01⁄2	50% Power Angle		60		deg	I _F = 30 mA	

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

Lamps are sorted to luminous flux (Φ_V), forward voltage (V_F), and dominant wavelength (λ_D) bins shown. Orders for OVFSG6C8 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.

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



Typical Electro-Optical Characteristics Curves



Forward Current vs Forward Voltage



50% Power Angle: 60°

Far Field Pattern



Relative Luminous Flux vs Forward Current



Temperature



Reverse Current vs Reverse Voltage

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100%

80%

60%

40%

20%

0%



Moisture Resistant Packaging



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