#### **OVFSxxC8**



#### **Features:**

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



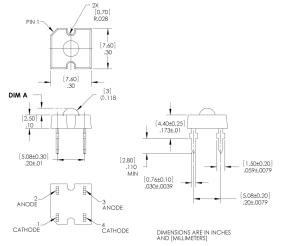
#### **Description:**

The OVFSxxC8 series 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

Part Number	DIM A	Beam Angle	Material	Emitted Color	Flux Typ. mlm	Lens Color
OVFSB7C8	[1.29] .051	70°	InGaN	Blue	2500	Clear
OVFSG7C8	[1.29] .051	70°	InGaN	Green	8500	Clear
OVFSRAC8	[1.50] .059	100°	AllnGaP	Red	8000	Clear
OVFSW6C8	[1.90] .075	60°	InGaN	White	7000	Clear





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

### **OVFSxxC8**



### **Electrical Specifications**

Absolute Maximum Ratings T<sub>A</sub> = 25° C unless otherwise noted

Storage Temperature Range	Blue, Green, Red, White	-40 ~ +100 °C
	Blue, Green, Red	-40 ~ +100 °C
Operating Temperature Range	White	-40 ~ +95 °C
Reverse Voltage	5 V	
Continuous Famurand Consent	Blue, Green, White	35 mA
Continuous Forward Current	Red	70 mA
Deals Farmand Comment (400) Data Code (1111)	Blue, Green, White	100 mA
Peak Forward Current (10% Duty Cycle, 1 kHz)	Red	200 mA
Downer Dissipation	Blue, Green, White	154 mW
Power Dissipation	Red	210 mW
Lead Soldering Temperature (3mm from the base of	260° C / 3 sec max	
Electrostatic Discharge Classification (JEDE-JESD22-/	Class 2	

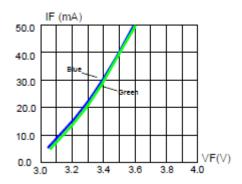
Optical and Electrical Characteristics (T<sub>A</sub> = 25° C)

SYMBOL	PARAMETER	COLOR	MIN	TYP	MAX	UNITS	CONDITIONS	
Φ <sub>v</sub> Luminous Flu		Blue	1650	2500		mlm		
		Green	5500	8500			I <sub>F</sub> = 30 mA	
	Luminous Flux	White	3850	7000				
		Red	5500	8000			I <sub>F</sub> = 70 mA	
V <sub>F</sub> Forward Voltage		Blue & Green		3.6	4.4	V	I <sub>F</sub> = 30 mA	
	Forward Voltage	White		3.6	4.4			
		Red		2.5	3.0		I <sub>F</sub> = 70 mA	
I <sub>R</sub> Reve		Blue & Green			100	μА	V <sub>R</sub> = 5 V	
	Reverse Current	White						
		Red						
$\lambda_{ extsf{D}}$ Dominant		Blue	460	470	475	- nm -	I <sub>F</sub> = 30 mA	
	Dominant Wayalangth	Green	515	527	535			
	Dominant Wavelength	Red	620	628	637		I <sub>F</sub> = 70 mA	
Х	Chromaticity Coordinates White			0.2895			I <sub>F</sub> = 30 mA	
у				0.2905				
20½H-H 50	50% Power Angle	Blue & Green		70		deg	I <sub>F</sub> = 30 mA	
		White		60				
		Red		100			I <sub>F</sub> = 70 mA	

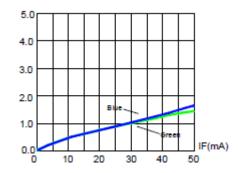
#### **OVFSxxC8**



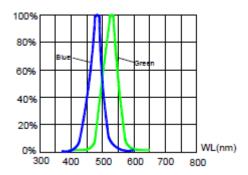
### Typical Electro-Optical Characteristics Curves — OVFSB7C8 (Blue) & OVFSG7C8



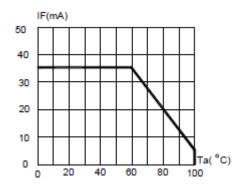
Forward Current vs Forward Voltage



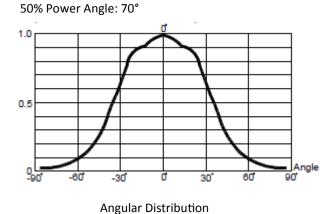
Relative Luminous Flux vs Forward Current

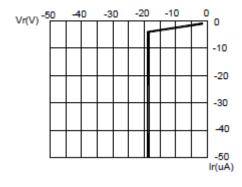


Relative Luminous Flux vs Wavelength



Maximum Forward DC Current vs Ambient Temperature



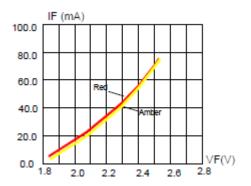


Reverse Current vs Reverse Voltage

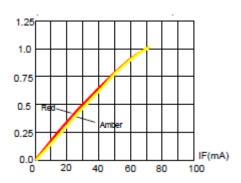
### **OVFSxxC8**



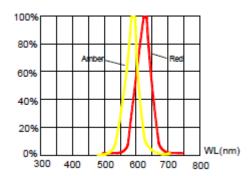
#### Typical Electro-Optical Characteristics Curves — OVFSRAC8



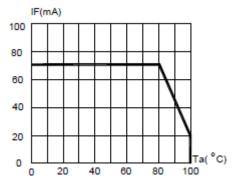
Forward Current vs Forward Voltage



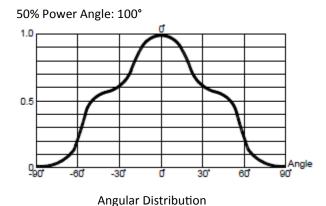
Relative Luminous Flux vs Forward Current

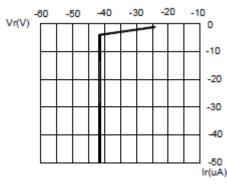


Relative Luminous Flux vs Wavelength



Maximum Forward DC Current vs Ambient Temperature



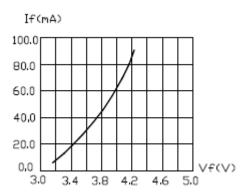


Reverse Current vs Reverse Voltage

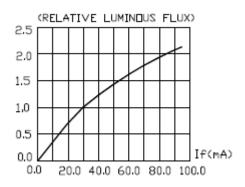
#### **OVFSxxC8**



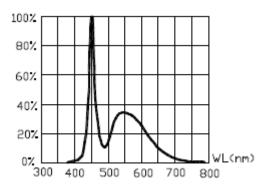
#### Typical Electro-Optical Characteristics Curves — OVFSW6C8 (White)



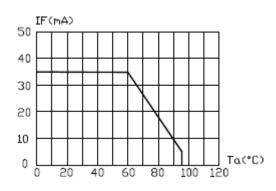
Forward Current vs Forward Voltage



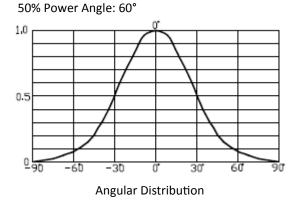
Relative Luminous Flux vs Forward Current

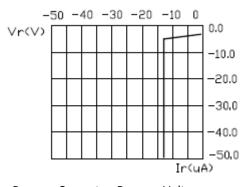


Relative Luminous Flux vs Wavelength



Maximum Forward DC Current vs Ambient





Reverse Current vs Reverse Voltage

### **OVFSxxC8**



### **Packaging**

