

# Red PLCC4 Surface Mount LED

## OVSASBC2R8

- High intensity with low power consumption
- White PLCC4 packaged in 8 mm tape on 7" diameter reel
- Compatible with automatic placement equipment
- Dimensions: 3.5 x 2.8 x 1.95 mm
- 120° viewing angle

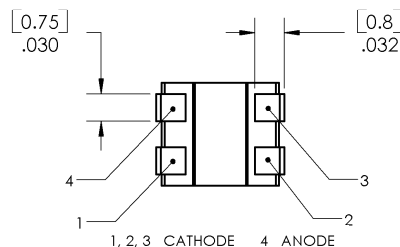
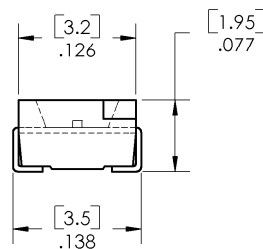
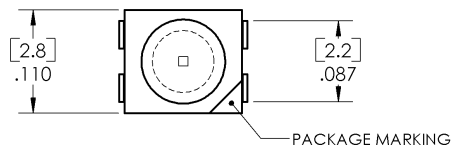


The **OVSASBC2R8** is designed for wide angle, uniform light output. Its internal reflector and colorless clear lens optimize luminous intensity and make it ideal for backlighting applications and for coupling with light guides.

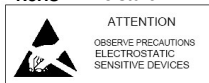
### Applications

- Traffic lights
- Signal and symbol luminaire
- Mono-color indicators
- Backlighting (LCD, switches, displays and illuminated advertising)
- Interior automotive lighting (instrumentation clusters)
- Safety marker lights (steps, exit ways)

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVSASBC2R8	AlInGaP	Red	900	Water Clear



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].



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

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### Absolute Maximum Ratings

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

Storage Temperature Range	-40 ~ +100° C
Operating Temperature Range	-40 ~ +100° C
Junction Temperature	110° C
Reverse Voltage	5 V
Continuous Forward Current	70 mA
Peak Forward Current (10% Duty Cycle, PW ≤ 100 μsec)	200 mA
Power Dissipation	225 mW

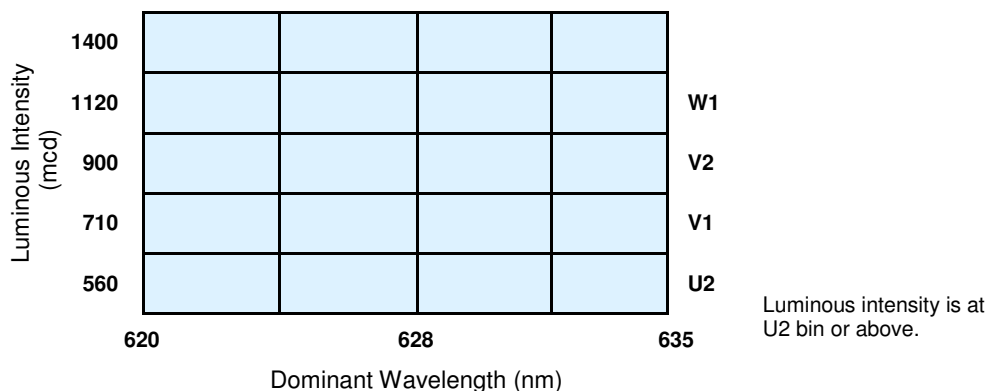
### Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I <sub>V</sub>	Luminous Intensity	560	900	----	mcd	I <sub>F</sub> = 50 mA
V <sub>F</sub>	Forward Voltage	----	2.5	3.2	V	I <sub>F</sub> = 50 mA
I <sub>R</sub>	Reverse Current	----	----	10	μA	V <sub>R</sub> = 5 V
λ <sub>D</sub>	Dominant Wavelength	620	628	635	nm	I <sub>F</sub> = 50 mA
2 Θ <sub>1/2</sub>	50% Power Angle	----	120	----	deg	I <sub>F</sub> = 50 mA

### Standard Bins (I<sub>F</sub> = 50 mA)

Lamps are sorted to luminous intensity (I<sub>V</sub>) and dominant wavelength (λ<sub>D</sub>) bins shown. Orders for OVSASBC2R8 may be filled with any or all bins contained as below.

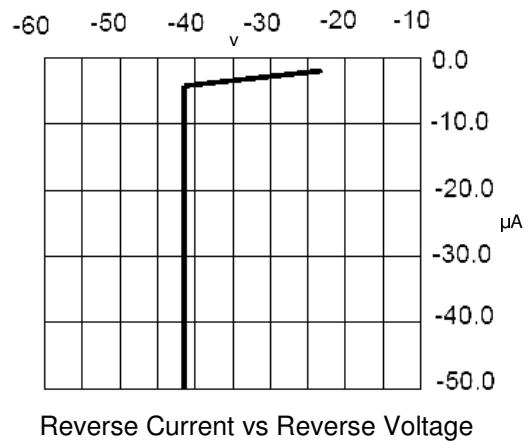
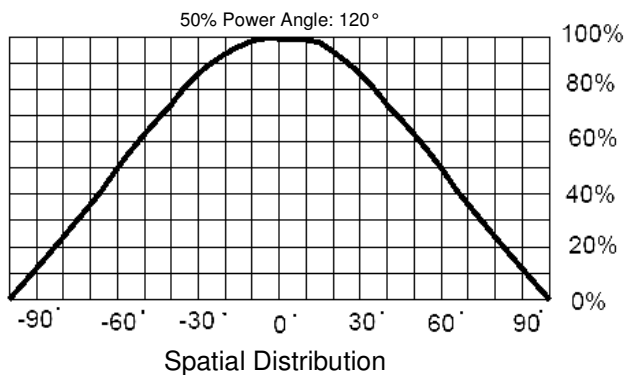
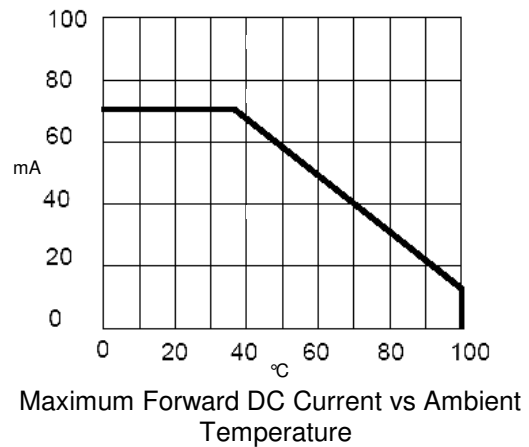
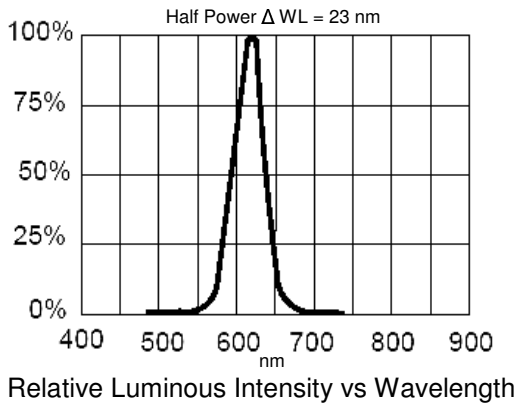
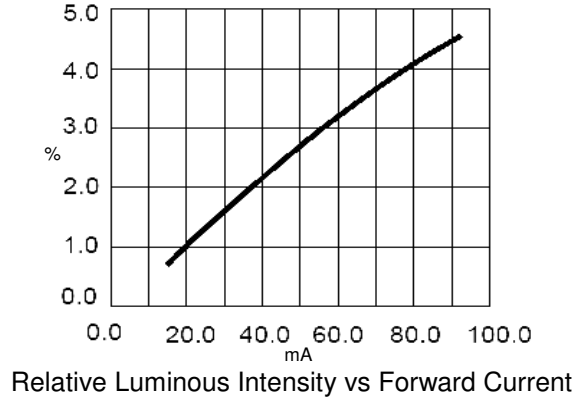
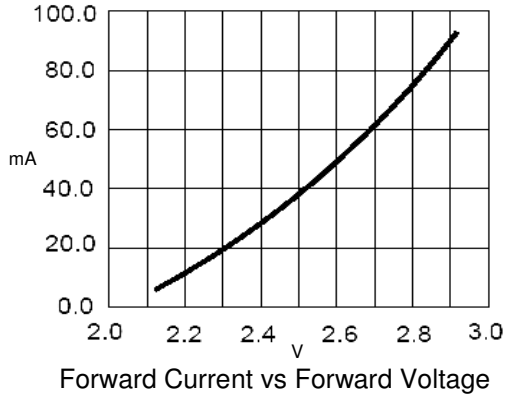


#### Notes:

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

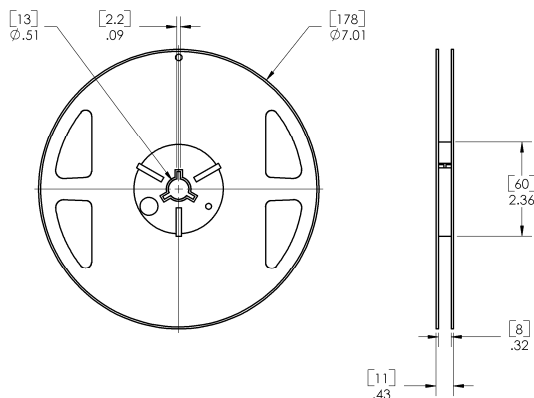


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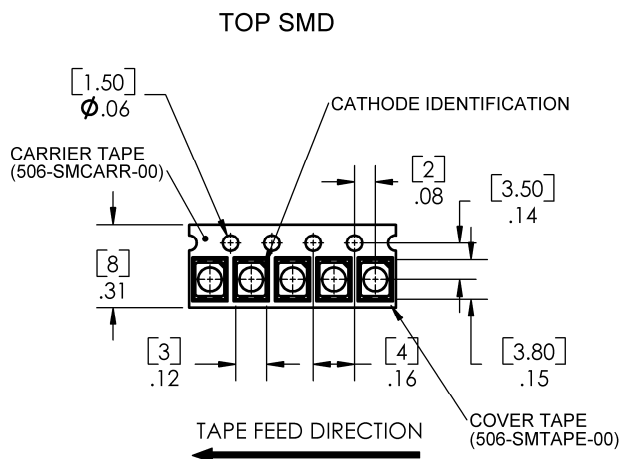
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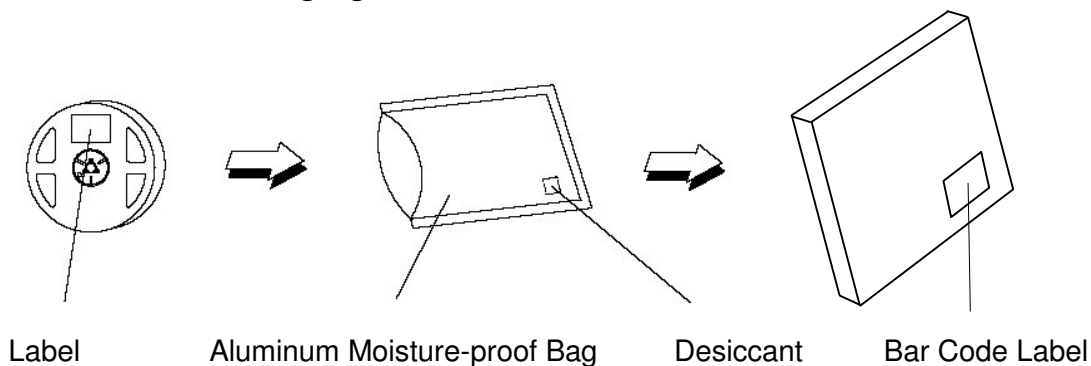
Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 2000 pieces per reel



### Moisture Resistant Packaging



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