

## **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[TT Electronics/Optek Technology](#)  
[OVSASBLCR8](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# Red Top-View Surface Mount LED with Domed Lens



## OVSASBLCR8

- High intensity with low power consumption
- White PLCC4 package with clear domed lens
- Wide viewing angle
- Packaged in 8 mm tape on 7" diameter reel
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Red (628 nm)

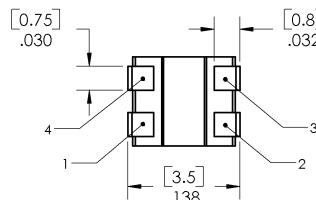
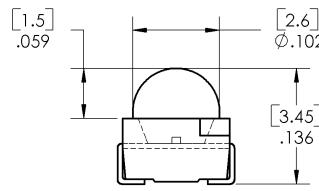
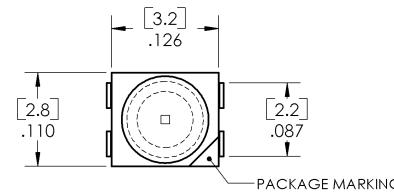


The **OVSASBLCR8** is designed for focused, uniform light output. Its internal reflector and colorless clear lens optimize luminous intensity and make it ideal for backlighting applications and for coupling with light guides.

## Applications

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

Part Number	Material	Emitted Color	Intensity Typ. mcd	Luminous Flux Typ. mlm	Lens Color
OVSASBLCR8	AlInGaP	Red	2200	2550	Water Clear



1, 2, 3 CATHODE      4 ANODE  
 DIMENSIONS ARE IN: [MILLIMETERS] INCHES



RoHS      Moisture



**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.

## Red Top-View SMD LED with Domed Lens OVSASBLCR8



### Absolute Maximum Ratings

$T_A = 25^\circ\text{C}$  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

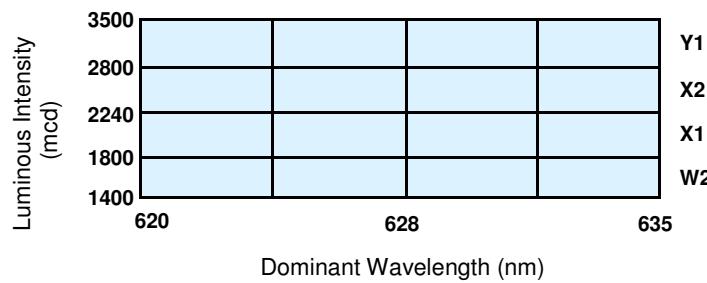
### Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
$I_V$	Luminous Intensity	1400	2200	3550	mcd	$I_F = 50$ mA
$\Phi_V$	Luminous Flux	----	2550	----	mlm	$I_F = 50$ mA
$V_F$	Forward Voltage	----	2.5	3.2	V	$I_F = 50$ mA
$I_R$	Reverse Current	----	----	10	μA	$V_R = 5$ V
$\lambda_D$	Dominant Wavelength	620	628	635	nm	$I_F = 50$ mA
$2\Theta_{1/2}$	50% Power Angle	----	60	----	deg	$I_F = 50$ mA

### Standard Bins ( $I_F = 50$ mA)

Lamps are sorted to luminous intensity ( $I_V$ ) and dominant wavelength ( $\lambda_D$ ) bins shown. Orders for OVSASBLCR8 may be filled with any or all bins contained as below.



#### Notes:

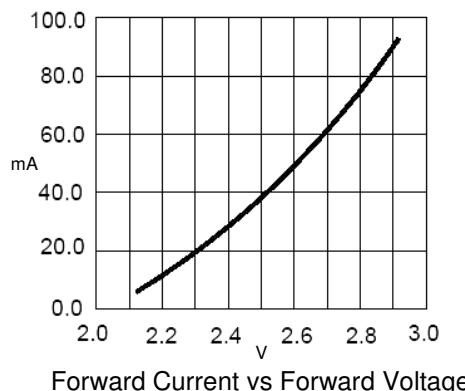
1. All ranks will be included per delivery. Rank ratio will be based on the chip distribution.
2. To designate luminous intensity ranks, please contact OPTEK.

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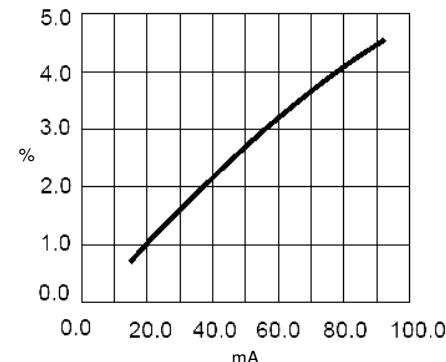
## Red Top-View SMD LED with Domed Lens OVSASBLCR8



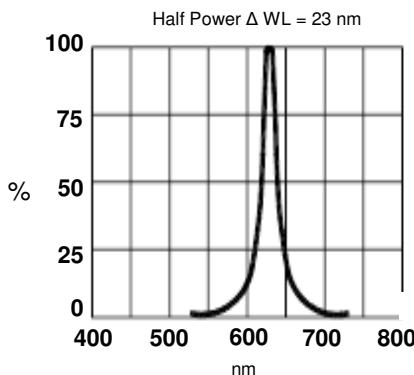
### Typical Electro-Optical Characteristics Curves



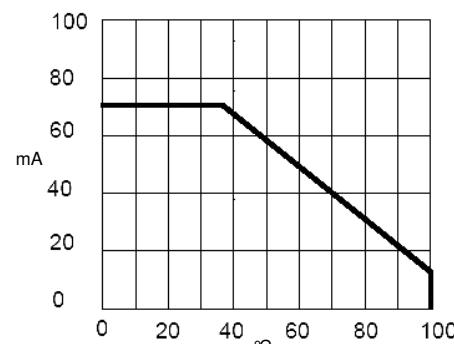
Forward Current vs Forward Voltage



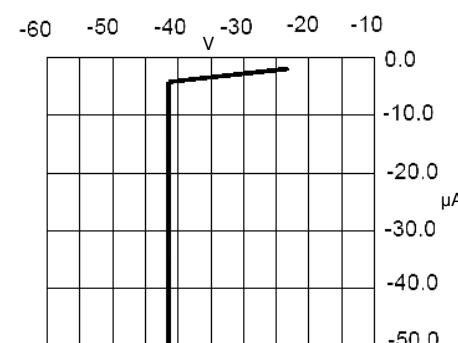
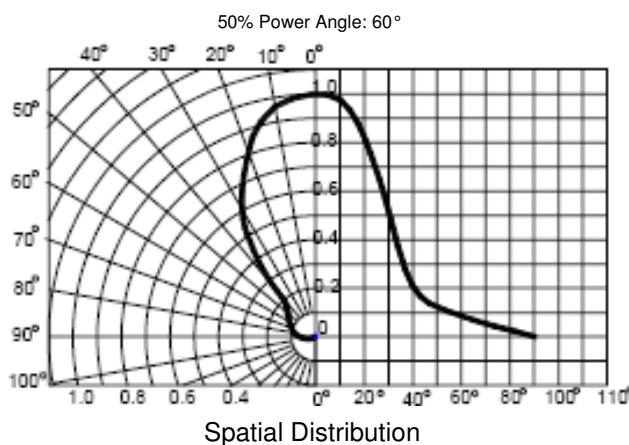
Relative Luminous Intensity vs Forward Current



Relative Luminous Intensity vs Wavelength



Maximum Forward DC Current vs Ambient Temperature



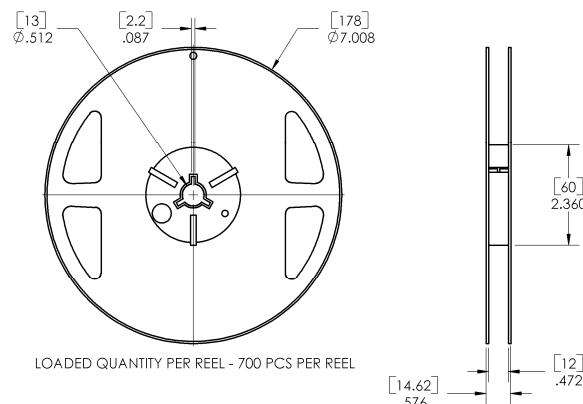
Reverse Current vs Reverse Voltage

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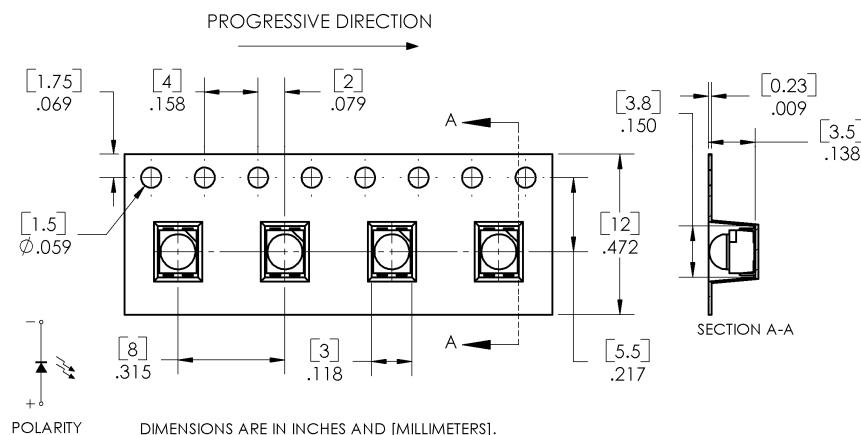
## Red Top-View SMD LED with Domed Lens OVSASBLCR8



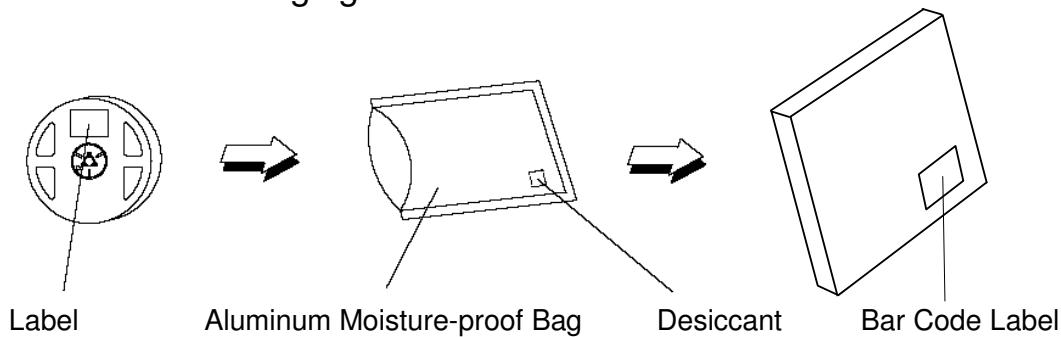
Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 700 pieces per reel



## Moisture Resistant Packaging



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