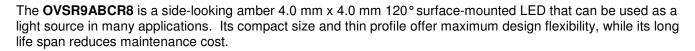
Amber Side-Emitting SMD LED (4 x 4 mm, 120° Viewing Angle)



OVSR9ABCR8

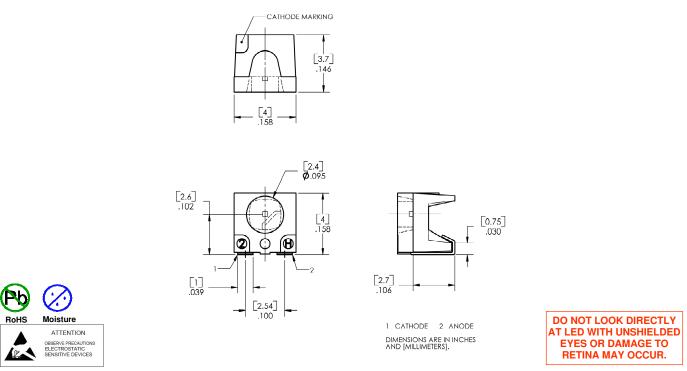
- Compact size allows use in space conscious devices
- Thin profile offers unlimited design flexibility
- Long life span reduces maintenance cost
- Suitable for all SMT assembly methods
- Amber (591 nm)



Applications

- Optical indicators
- Coupling into light guides
- Back lights (LCD switches, keys, displays, illuminated advertising, general lighting)
- Interior automotive lighting (dashboard backlighting, etc.)
- Automobile applications
- Marker lights (e.g., steps, exit ways, etc.)
- Signal and symbol luminaire

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVSR9ABCR8	AllnGaP Amber		350	Water Clear



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



Absolute Maximum Ratings

$I_A = 25^{\circ} \text{ C}$ unless otherwise noted	
Storage Temperature Range	-40 ~ +100 ° C
Operating Temperature Range	-40 ~ +100° C
Junction Temperature	110°C
Junction/Ambient ¹	500°C/W
Junction/Solder Point	350°C/W
Reverse Voltage	5 V
Continuous Forward Current	50 mA
Peak Forward Current (10% Duty Cycle, PW ≤ 100 µsec)	200 mA
Power Dissipation	130 mW

Note:

1. Rth test condition: Mounted on PCBoard FR 4 (pad size≥16 mm²).

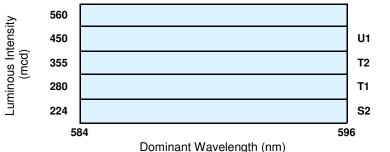
Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	ТҮР	МАХ	UNITS	CONDITIONS
Ι _V	Luminous Intensity	224	350		mcd	I _F = 20 mA
V _F	Forward Voltage		2.3	2.6	V	I _F = 20 mA
I _R	Reverse Current			10	μA	$V_R = 5 V$
λ_{D}	Dominant Wavelength	584	591	596	nm	I _F = 20 mA
2 ⊖¹⁄2	50% Power Angle		120		deg	I _F = 20 mA

Standard Bins (I_F = 20mA)

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) bins shown. Orders for OVSR9ABCR8 may be filled with any or all bins contained as below.



Luminous intensity is at S2 bin or above.

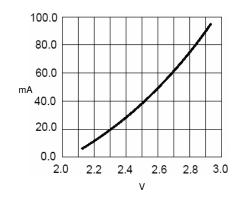
Notes:

1. All ranks will be included per delivery. Rank ratio will be based on the chip distribution.

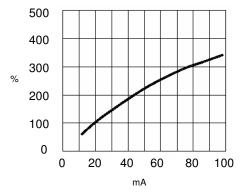
2. To designate luminous intensity ranks, please contact OPTEK.



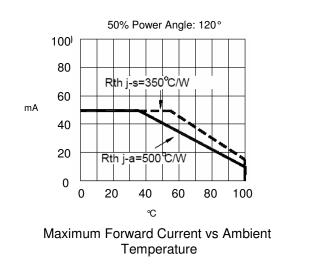
Typical Electro-Optical Characteristics Curves

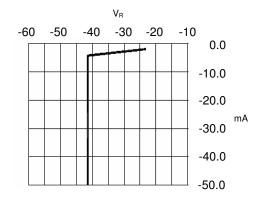


Forward Current vs Forward Voltage

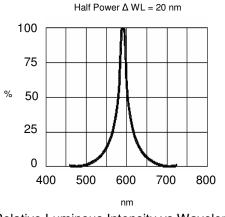


Relative Luminous Intensity vs Forward Current

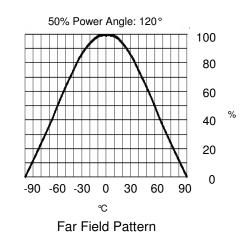




Reverse Current vs Reverse Voltage



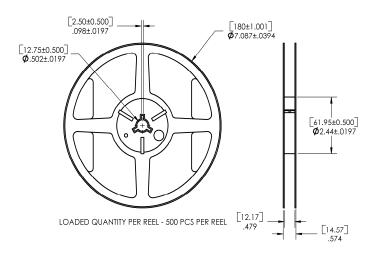
Relative Luminous Intensity vs Wavelength



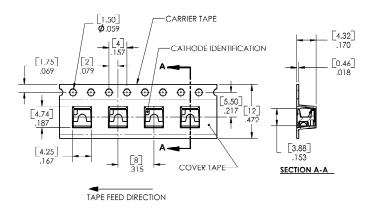
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Reel Dimensions: 7-inch reel

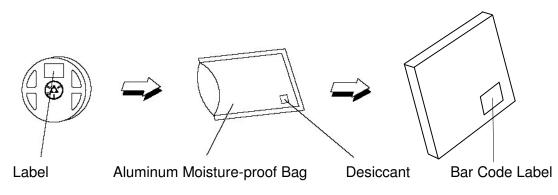


Carrier Tape Dimensions: Loaded quantity 500 pieces per reel



DIMENSIONS ARE IN INCHES AND [MILLIMETERS]. TOLERANCES ARE ±.0039 [0.1] UNLESS OTHERWISE SPECIFIED.

Moisture Resistant Packaging



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