

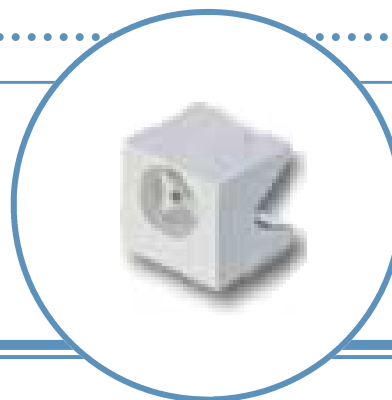
Blue-Green Side-Emitting SMD LED (4 x 4 mm, 120° Viewing Angle)

查询"OVSR9CBCR8"供应商



OVSR9CBCR8

- 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
- Blue-green (505 nm) water clear lens

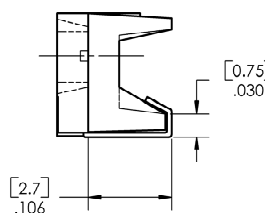
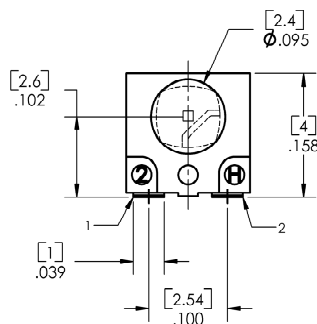
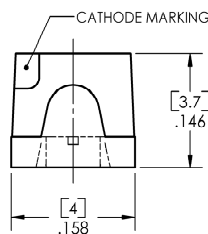


The **OVSR9CBCR8** is a side-looking blue-green 4.0 mm x 4.0 mm 120° surface-mounted LED that can be used as a light source in many applications. Its compact size and thin profile offer maximum design flexibility coupled with a long life span that reduces maintenance cost.

Applications

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

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVSR9CBCR8	InGaN	Blue-Green	400	Water Clear



1 CATHODE 2 ANODE
DIMENSIONS ARE IN INCHES
AND [MILLIMETERS].



**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.

Blue-Green Side-Emitting SMD LED

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OVSR9CBCR8

Absolute Maximum Ratings

T_A = 25° C unless otherwise noted

Storage Temperature Range	-40 ~ +100° C
Operating Temperature Range	-40 ~ +100° C
Junction Temperature	110° C
Junction/Ambient ¹	350° C/W
Junction/Solder Point	250° C/W
Reverse Voltage	5 V
Continuous Forward Current	20 mA
Peak Forward Current (10% Duty Cycle, PW ≤ 100 μsec) ²	100 mA
Power Dissipation	85 mW

Notes:

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

2. Pulse width ≤ 0.1 msec, duty ≤ 1/10.

Electrical Characteristics

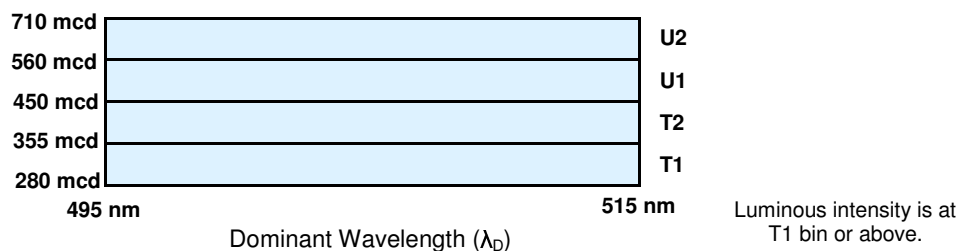
T_A = 25° C unless otherwise noted

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I _V	Luminous Intensity	280	400	----	mcd	I _F = 20 mA
V _F	Forward Voltage	----	3.6	4.2	V	I _F = 20 mA
I _R	Reverse Current	----	----	10	μA	V _R = 5 V
λ _D	Dominant Wavelength	495	505	515	nm	I _F = 20 mA
2 Θ _{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 OVSR9CBCR8 may be filled with any or all bins contained as below.



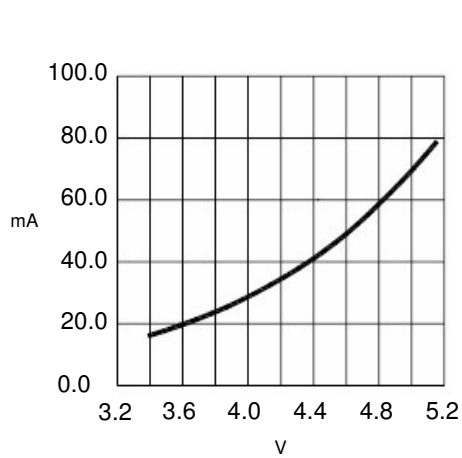
Notes:

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

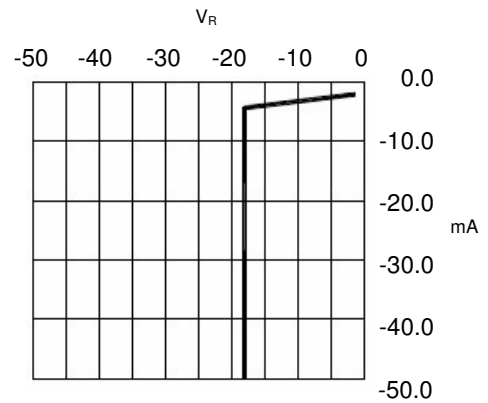
2. To designate luminous intensity ranks, please contact OPTEK.

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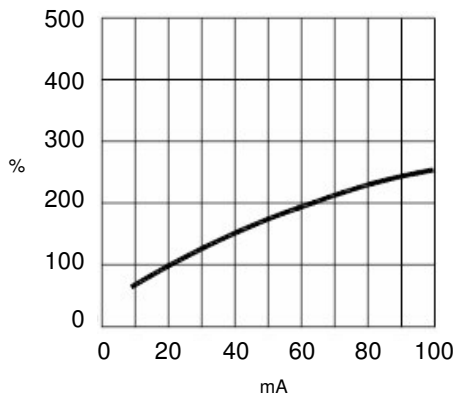
Typical Electro-Optical Characteristics Curves



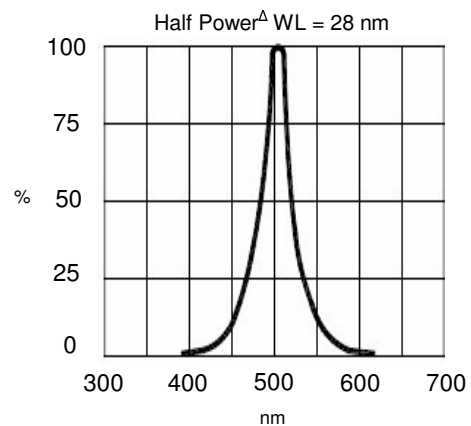
Forward Current vs Forward Voltage



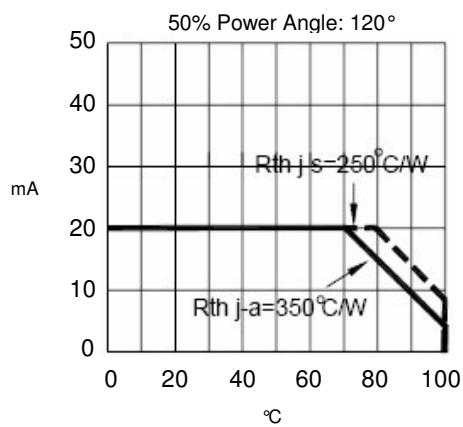
Reverse Current vs Reverse Voltage



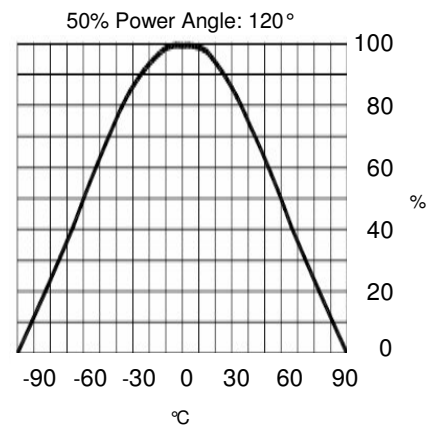
Relative Luminous Intensity vs Forward Current



Relative Luminous Intensity vs Wavelength



Maximum Forward Current vs Ambient Temperature



Far Field Pattern

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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 $\pm .0039$ [0.1] UNLESS OTHERWISE SPECIFIED.

Moisture Resistant Packaging



Aluminum Moisture-proof Bag

Desiccant

Bar Code Label

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