Blue-Green Top-View Surface Mount LED



OVSACBC2R8

- 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 OVSACBC2R8 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

 Applications Traffic lights Signal and symbol lun Mono-color indicators Backlighting (LCD, sw Interior automotive lig Safety marker lights (specific properties) 	ninaire vitches, displays and illu hting (instrumentation c steps, exit ways)	ıminated advertising lusters)	m.cn				
Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color			
OVSACBC2R8	InGaN	Blue-Green	560	Water Clear			
	[2.8] .110 PACKAGE MARKING [1.95] .077						
RoHS Moisture ATTENTION OBSERVE PRECAUTIONS ELECTROSTATIC	D	2, 3 CATHODE 4 ANODE IMENSIONS ARE IN INCHES ND [MILLIMETERS].	0.8] .032	DO NOT LOOK DIRECTLY AT LED WITH UNSHIELDED EYES OR DAMAGE TO			

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

RETINA MAY OCCUR.

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Absolute Maximum Ratings T_A = 25° C unless otherwise noted

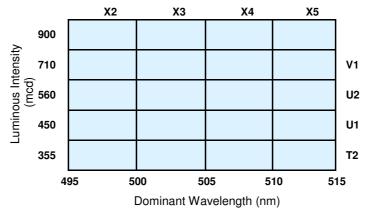
Storage Temperature Range	-40 ~ +100° C
Operating Temperature Range	-40 ~ +100° C
Junction Temperature	110°C
Junction/Ambient ¹	350℃/W
Junction/Solder Point	200℃/W
Reverse Voltage	5 V
Continuous Forward Current	30 mA
Peak Forward Current (10% Duty Cycle, PW ≤ 100 μsec)	100 mA
Power Dissipation	140 mW

Electrical Characteristics

Note: 1. Rth test condition: Mounted on PC board FR 4 (pad size ≥ 16 mm²) Electrical Characteristics T _A = 25° C unless otherwise noted								
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS		
I _V	Luminous Intensity	355	560		mcd	I _F = 30 mA		
V _F	Forward Voltage	7-1	3.9	4.6	V	$I_F = 30 \text{ mA}$		
I _R	Reverse Current	-		10	μΑ	$V_R = 5 V$		
λ_{D}	Dominant Wavelength	495	505	515	nm	I _F = 30 mA		
2 Θ½	50% Power Angle		120		deg	I _F = 30 mA		

Standard Bins (I_F = 30 mA)

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) bins shown. Orders for OVSACBC2R8 may be filled with any or all bins contained as below.



Luminous intensity is at T2 bin or above.

Important Notes:

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

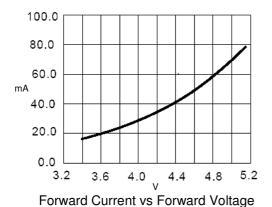
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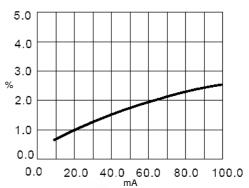
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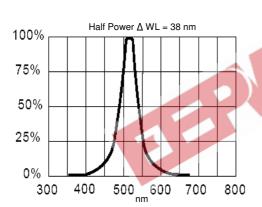


Typical Electro-Optical Characteristics Curves

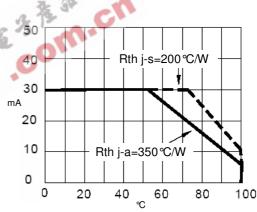




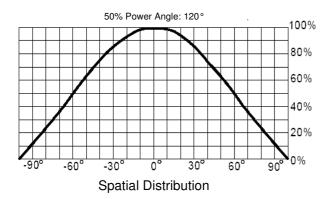
Relative Luminous Intensity vs Forward Current

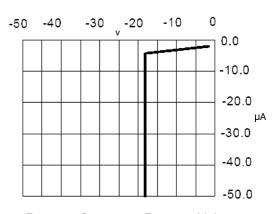


Relative Luminous Intensity vs Wavelength



Maximum Forward DC Current vs Ambient Temperature





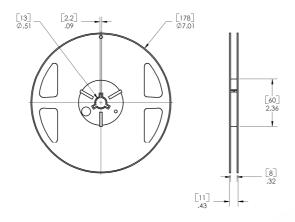
Reverse Current vs Reverse Voltage

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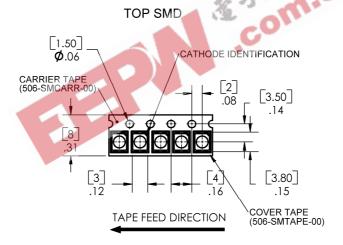
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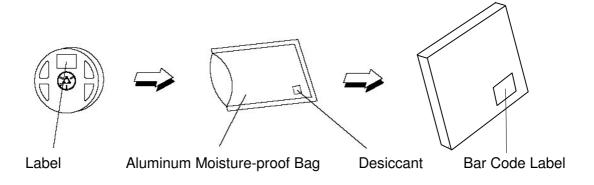
Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 2000 pieces per reel



Moisture Resistant Packaging



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