Amber PLCC4 Surface Mount LED with Domed Lens



OVSAABLCR8

- 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
- Amber (591 nm)



The **OVSAABLCR8** 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

Moisture

ATTENTION

OBSERVE PRECAUTION ELECTROSTATIC SENSITIVE DEVICES

- 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	Lens Color	
OVSAABLCR8	AllnGaP	Amber	1800	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°C unless otherwise noted	
Storage Temperature Range	-40 ~ +100°C
Operating Temperature Range	-40 ~ +100°C
Soldering Temperature ¹	260°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

Note:

1. Solder time less than 5 seconds at temperature extreme.

Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	ТҮР	ΜΑΧ	UNITS	CONDITIONS
Ι _V	Luminous Intensity	1120	1800		mcd	I _F = 50 mA
V _F	Forward Voltage		2.6	3.2	V	I _F = 50 mA
I _R	Reverse Current			10	μA	$V_R = 5 V$
λ_{D}	Dominant Wavelength		591		nm	I _F = 50 mA
λ _P	Peak Wavelength		596		nm	I _F = 50 mA
2 O½	50% Power Angle		60		deg	I _F = 50 mA

Standard Bins $(I_F = 50 \text{ mA})$

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) bins shown. Orders for OVSAABLCR8 may be filled with any or all bins contained as below.



Luminous intensity is at W1 bin or above.

Dominant Wavelength (λ_D)

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



Rth j-a=300°C/W

40

°C

Maximum Forward DC Current vs Ambient Temperature

60

80

mΑ

40

20

0

0

20



Reverse Current vs Reverse Voltage





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100



Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 700 pieces per reel



Moisture Resistant Packaging



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