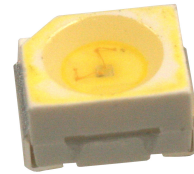


White PLCC2 Surface Mount LED

OVS9WBCR4

- High luminous intensity
- High efficiency
- Emission color: $x = 0.315$, $y = 0.335$
- Pb-free

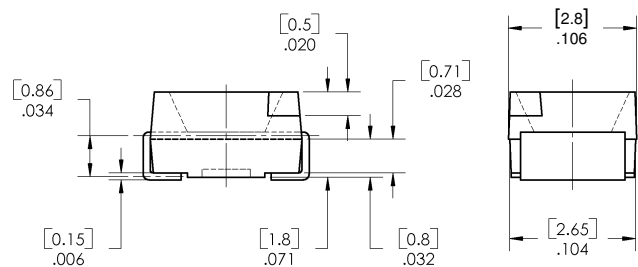
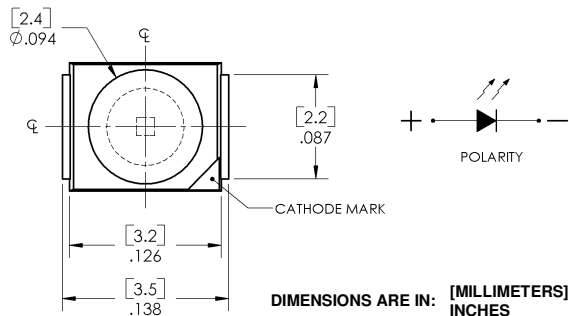


The **OVS9WBCR4** provides high intensity light from a surface mount package. Light output is optimized by an interior reflector and the wide viewing angle adds flexibility for applications ranging from hand-held appliances to automotive interiors.

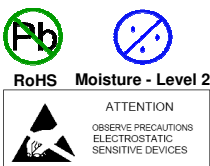
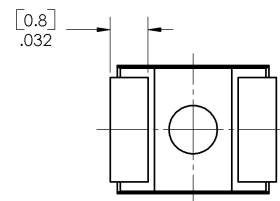
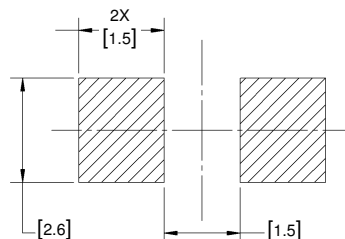
Applications

- Backlighting of full color LCD
- Automotive interior lighting
- General lighting
- Coupling into light guides
- Entertainment equipment

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVS9WBCR4	InGaN	White	750	Water Clear



RECOMMENDED SOLDER PADS



**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.

White PLCC2 Surface Mount LED

OVS9WBCR4



Absolute Maximum Ratings

T_A = 25° C unless otherwise noted

Storage Temperature Range	-40 ~ +100° C
Operating Temperature Range	-40 ~ +100° C
Soldering Temperature (10 - 30 seconds maximum)	260° C
Reverse Voltage	5 V
Continuous Forward Current	20 mA
Peak Forward Current (T _P ≤ 10 μs, Duty Cycle = 0.005)	200 mA
Electrostatic Discharge (ESD Threshold [HBM])	2000 V
Power Dissipation (at room temperature)	85 mW
LED Junction Temperature	125° C

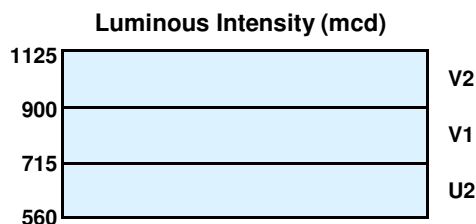
Electrical Characteristics

T_A = 25° C unless otherwise noted

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I _V	Luminous Intensity	560	750	1125	mcd	I _F = 20 mA
V _F	Forward Voltage	2.9	3.2	3.8	V	I _F = 20 mA
I _R	Reverse Current	----	----	10	μA	V _R = 5 V
2 Θ _{1/2}	50% Power Angle	----	120	----	deg	I _F = 20 mA
Chromaticity Coordinates	x	----	0.3150	----	----	I _F = 20 mA
	y	----	0.3354	----	----	I _F = 20 mA

Standard Bins (I_F = 20 mA)

Lamps are sorted to luminous intensity (I_V) and chromaticity coordinates (x, y) bins shown. Orders for OVS9WBCR4 may be filled with any or all bins contained as below.



Notes:

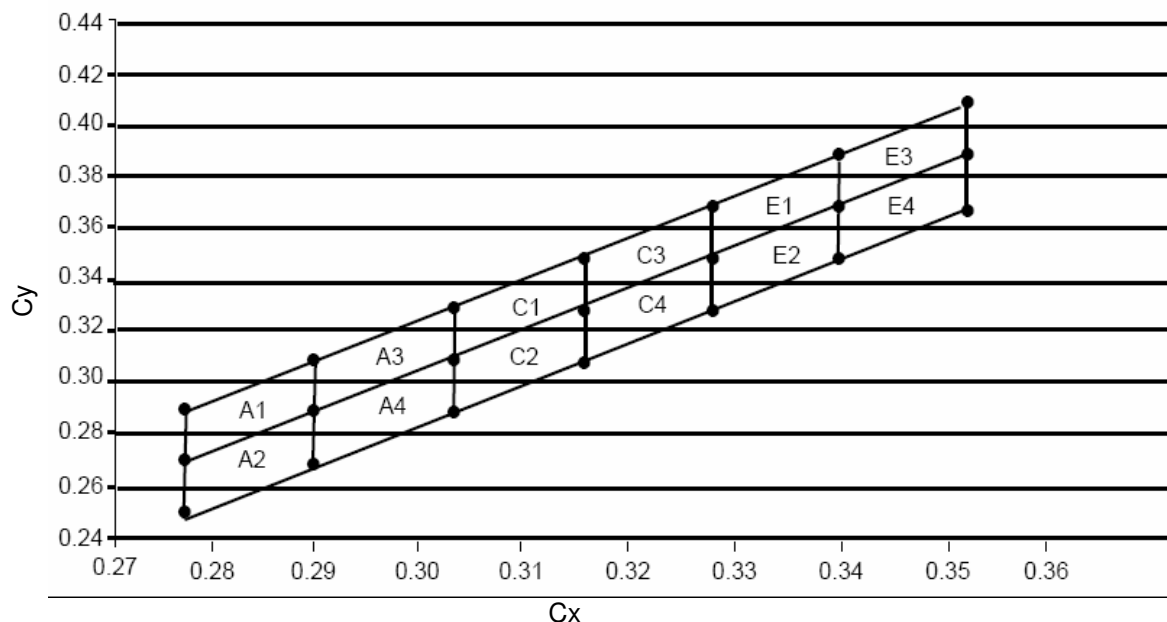
1. All ranks will be included per delivery, rank ratio will be based on the chip distribution.
2. Pb content <1000 PPM.
3. To designate luminous intensity ranks or chromaticity bins, please contact OPTEK.
4. Part is sensitive to static electricity and precautions must be used when handling products.

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White PLCC2 Surface Mount LED

OVS9WBCR4

White Color Grouping



Bin					
A1	Cx	0.2775	0.2900	0.2900	0.2775
	Cy	0.2732	0.2939	0.3114	0.2907
A2	Cx	0.2775	0.2900	0.2900	0.2775
	Cy	0.2557	0.2764	0.2939	0.2732
A3	Cx	0.2900	0.3025	0.3025	0.2900
	Cy	0.2939	0.3146	0.3321	0.3114
A4	Cx	0.2900	0.3025	0.3025	0.2900
	Cy	0.2764	0.2971	0.3146	0.2939
C1	Cx	0.3025	0.3150	0.3150	0.3025
	Cy	0.3146	0.3354	0.3529	0.3321
C2	Cx	0.3025	0.3150	0.3150	0.3025
	Cy	0.2971	0.3179	0.3354	0.3146
C3	Cx	0.3150	0.3275	0.3275	0.3150
	Cy	0.3354	0.3561	0.3736	0.3529
C4	Cx	0.3150	0.3275	0.3275	0.3150
	Cy	0.3179	0.3386	0.3561	0.3354

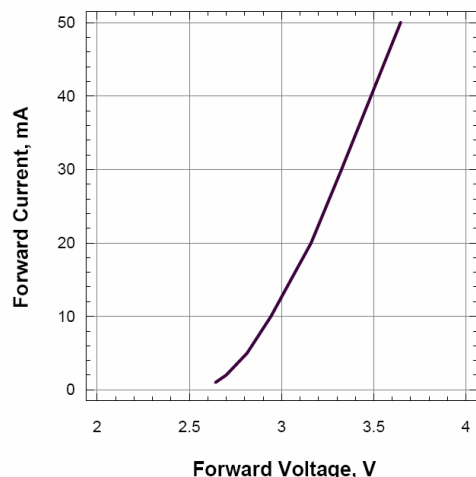
Bin					
E1	Cx	0.3275	0.3400	0.3400	0.3275
	Cy	0.3561	0.3768	0.3943	0.3736
E2	Cx	0.3275	0.3400	0.3400	0.3275
	Cy	0.3386	0.3593	0.3768	0.3561
E3	Cx	0.3400	0.3525	0.3525	0.3400
	Cy	0.3768	0.3975	0.4150	0.3943
E4	Cx	0.3400	0.3525	0.3525	0.3400
	Cy	0.3593	0.3800	0.3975	0.3768

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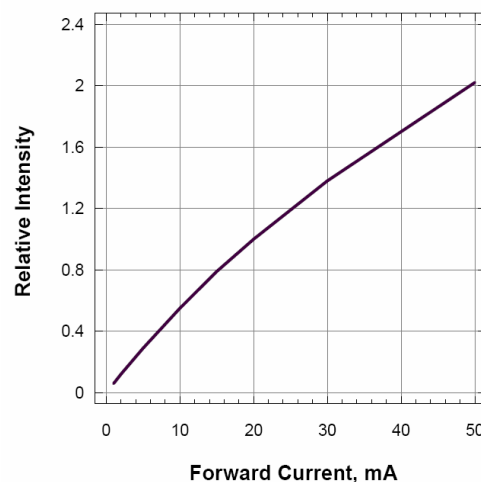
White PLCC2 Surface Mount LED

OVS9WBCR4

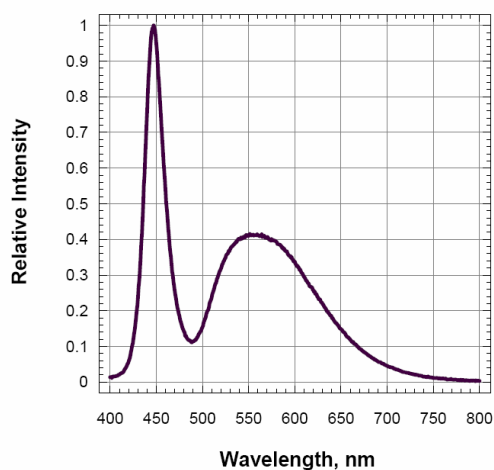
Forward Current Vs Forward Voltage



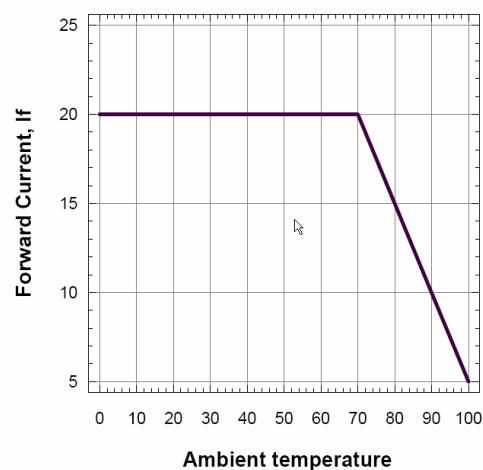
Relative Luminous Intensity Vs Forward Current



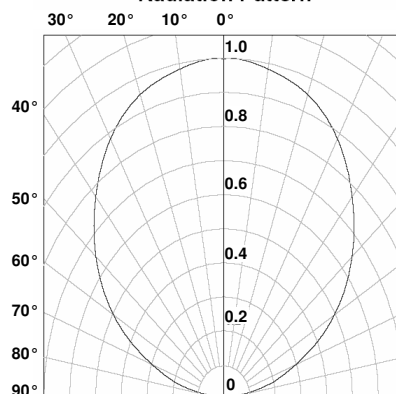
Relative Intensity Vs. Wavelength



Maximum Current Vs Ambient Temperature



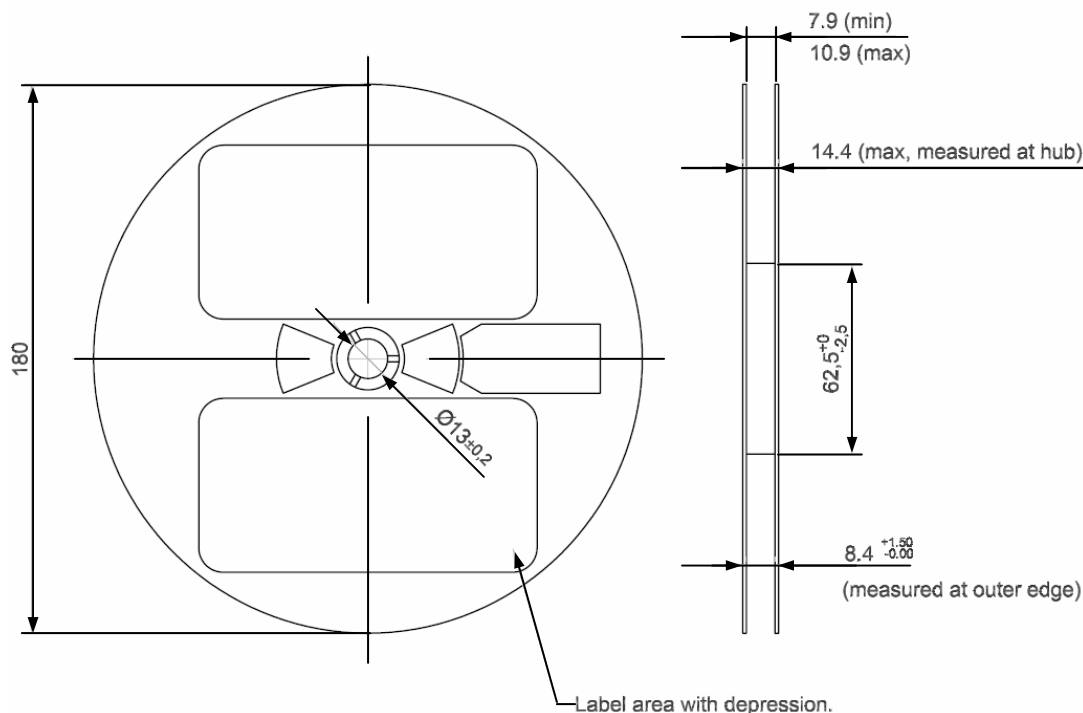
Radiation Pattern



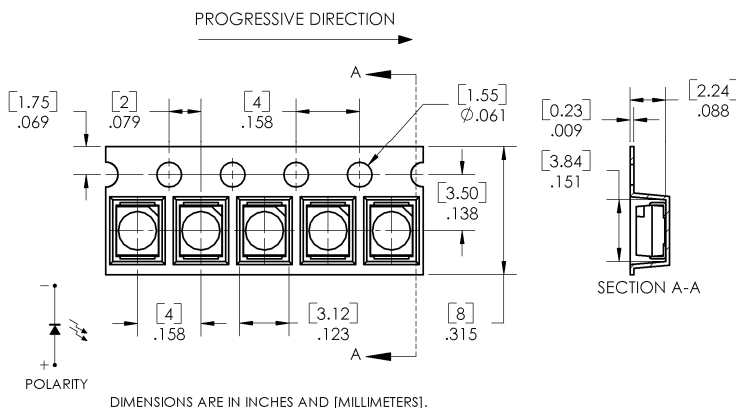
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White PLCC2 Surface Mount LED OVS9WBCR4

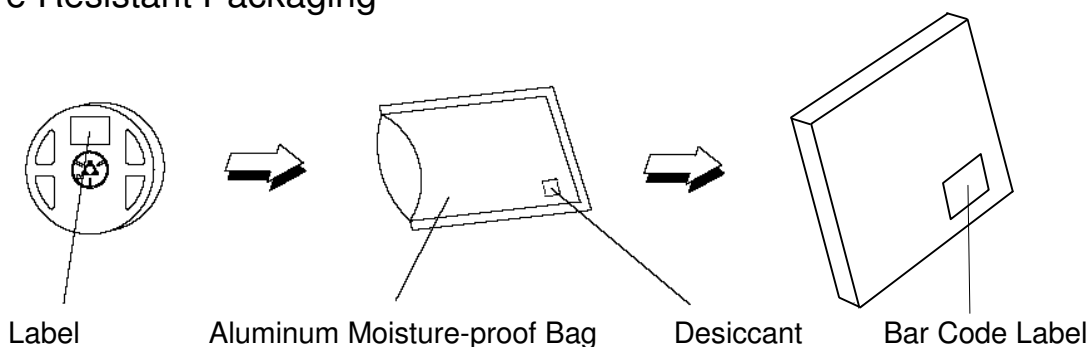
Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 2000 pieces per reel

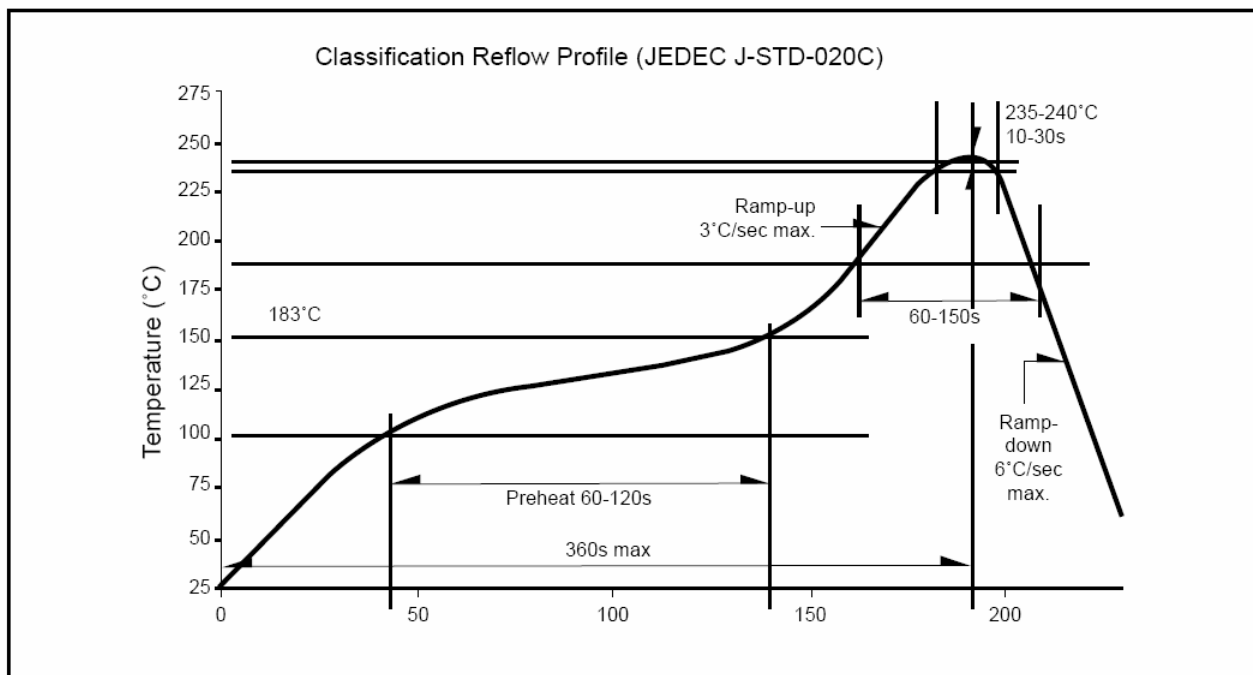


Moisture Resistant Packaging

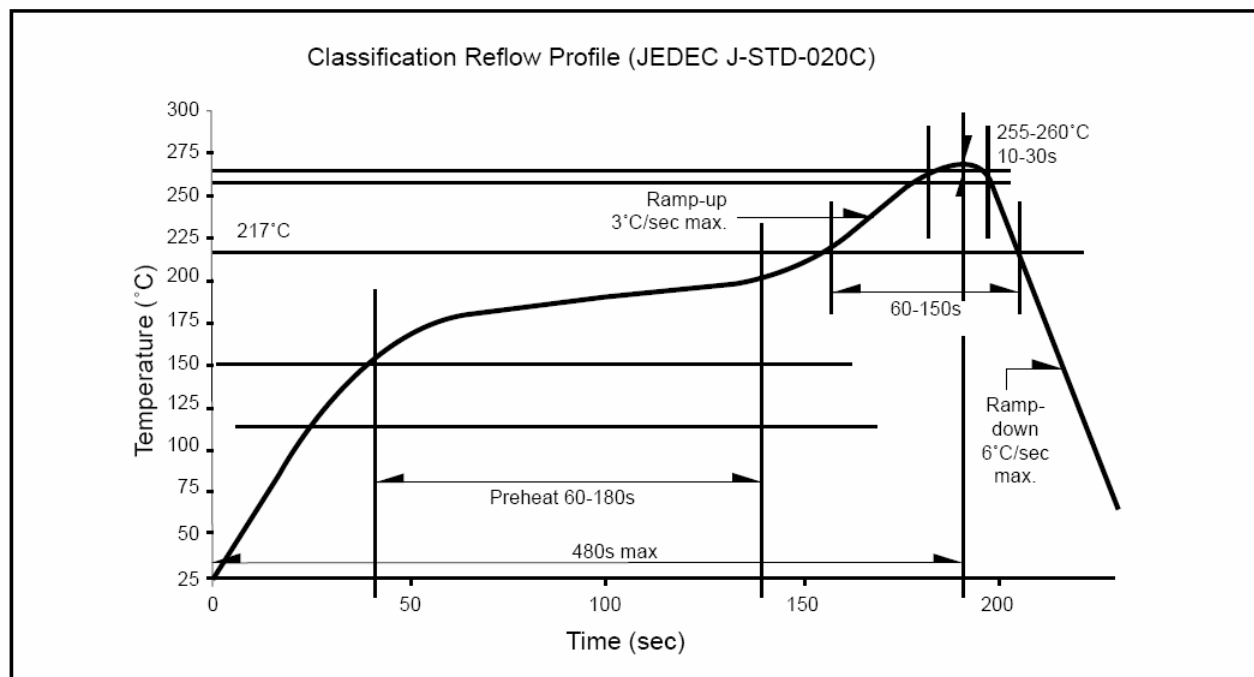


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Recommended Sn-Pb IR-Reflow Soldering Profile



Recommended Pb-free Soldering Profile



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