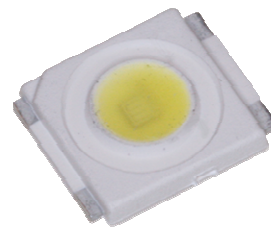


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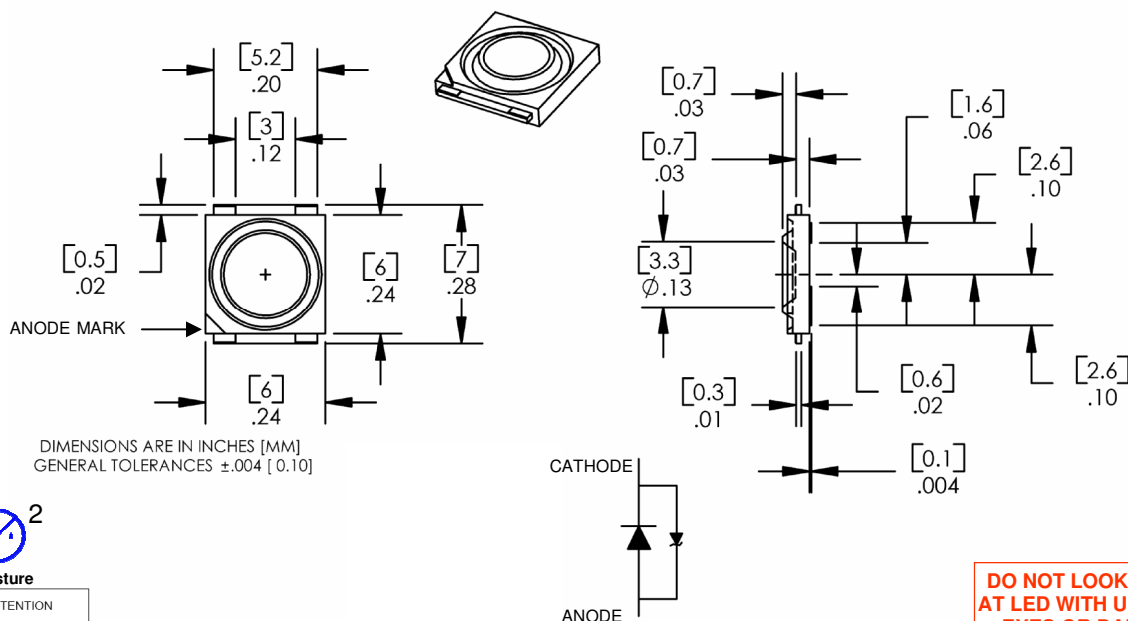
- Robust energy-efficient design with long operating life
- Low thermal resistance
- Exceptional spatial uniformity
- Optional optics to suit application



Applications

- Automotive exterior and interior lighting
- Architectural indoor and outdoor lighting
- General lighting
- Electronic signs and signals

Part Number	Viewing Angle	Emitted Color	Typical Luminous Flux (lm)	Typical On-Axis Intensity (cd)	Lens Color
OVS5WBCR4	120°	White	21	8.5	Water Clear



**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.

.5-Watt SMD 6mm White

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OV55WBCR4

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$

DC Forward Current	180mA
Peak Pulsed Forward Current ¹	500mA
Reverse Voltage	Not designed for reverse bias
Junction Temperature ²	125°C
Power Dissipation	700mW
Storage and Operating Temperature	-40° ~ +100 °C
ESD Threshold (HBM)	2000V

Notes:

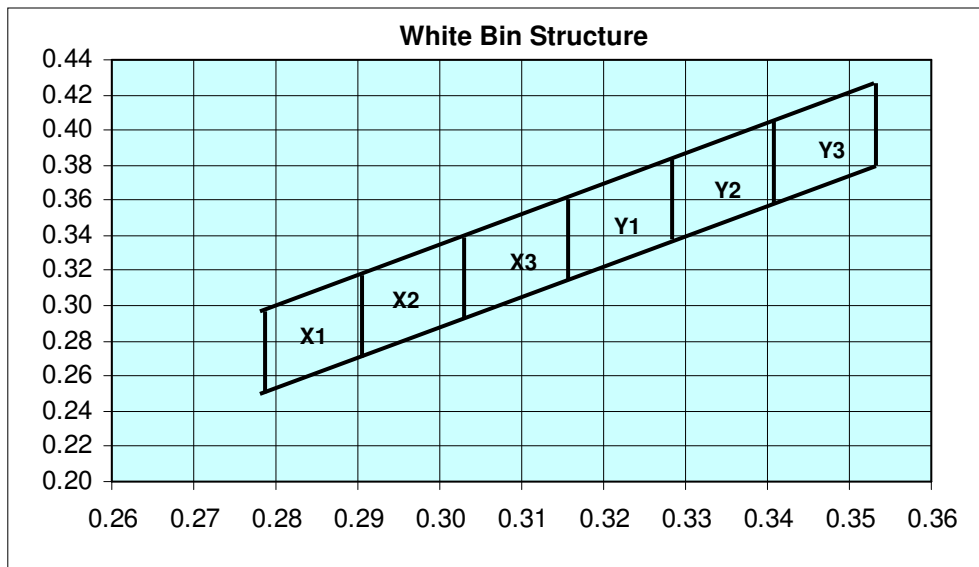
1. Pulse width $t_p \leq 10\mu\text{s}$, Duty cycle = 0.1
2. Thermal conductivity = 18K/W for white

Optical and Electrical Characteristics—White ($I_F = 150\text{ mA}$, $T_A = 25^\circ\text{C}$)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS
V_F	Forward Voltage	3.0	3.2	3.7	V
Φ	Luminous Flux	14	21	28	lm
I_V	Luminous Intensity	5.6	8.5	11.2	cd
I_R	Reverse Current at 3V	----	10	----	μA
$2\Theta_{1/2}$	50% Power Angle	----	120	----	deg

Standard Bins ($I_F = 150\text{ mA}$)

Lamps are sorted to luminous flux (Φ), chromaticity coordinates, and correlated color temperature (CCT) bins shown. Orders may be filled with any or all bins contained as below.



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Standard Bins ($I_F = 150 \text{ mA}$)

Lamps are sorted to luminous flux (Φ), chromaticity coordinates, and correlated color temperature (CCT) bins shown. Orders may be filled with any or all bins contained as below.

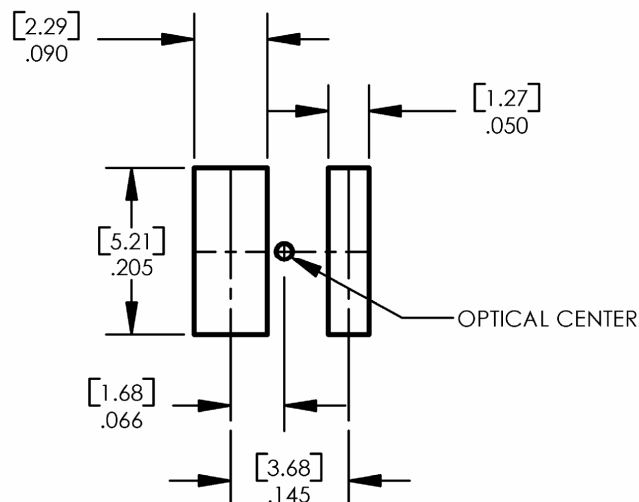
Bin		1	2	3	4
X_1	C_X	0.2775	0.29	0.29	0.2775
	C_Y	0.243	0.265	0.31	0.288
X_2	C_X	0.29	0.3025	0.3025	0.29
	C_Y	0.265	0.286	0.331	0.31
X_3	C_X	0.3025	0.315	0.315	0.3025
	C_Y	0.286	0.308	0.353	0.331
Y_1	C_X	0.315	0.3275	0.3275	0.315
	C_Y	0.308	0.33	0.375	0.353
Y_2	C_X	0.3275	0.34	0.34	0.3275
	C_Y	0.33	0.351	0.396	0.375
Y_3	C_X	0.34	0.3525	0.3525	0.34
	C_Y	0.351	0.373	0.418	0.396

Color Bin	Minimum CCT (K)	Maximum CCT (K)
Y3	4500	5000
Y2	5000	5500
Y1	5500	6000
X3	6000	7000
X2	7000	8000
X1	8000	10000

Φ	Luminous Flux (lm)	
Bin	Min	Max
Z2	14	18
AA	18	22
AB	22	28

Solder Pad Design

Note: Metal core circuit board (MCPCB) is highly recommended for high density applications. Please consult sales and marketing for additional information.



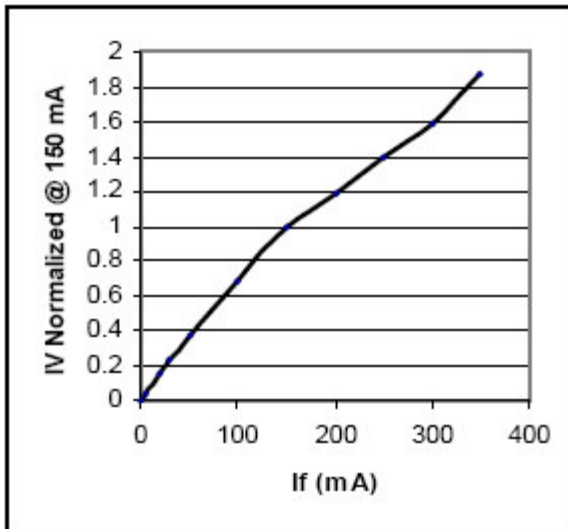
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.5-Watt SMD 6mm White

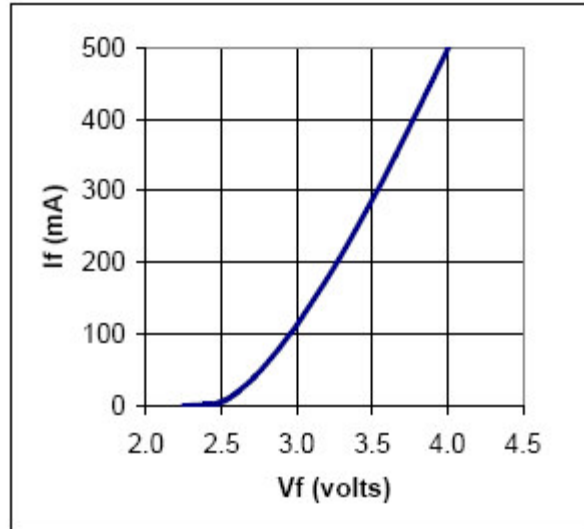
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OV55WBCR4

Typical Electro-Optical Characteristics Curves—White

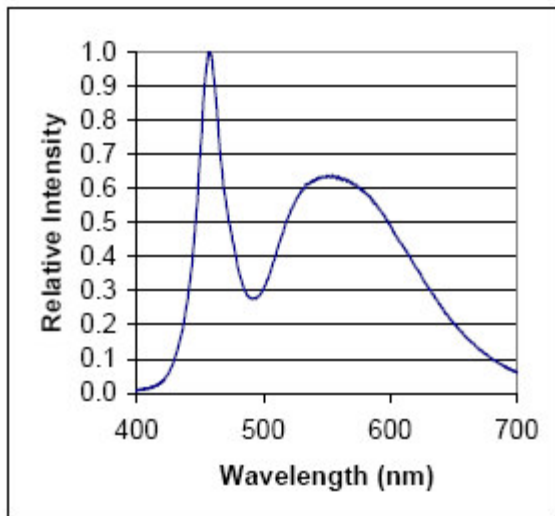
Relative luminous intensity vs. forward current



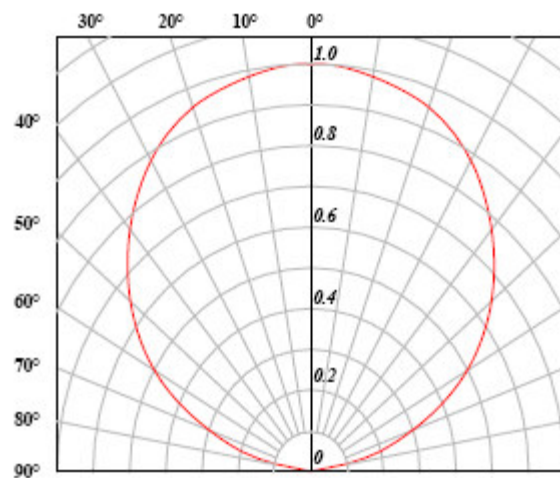
Forward current vs. forward voltage.



Relative Spectra Emission

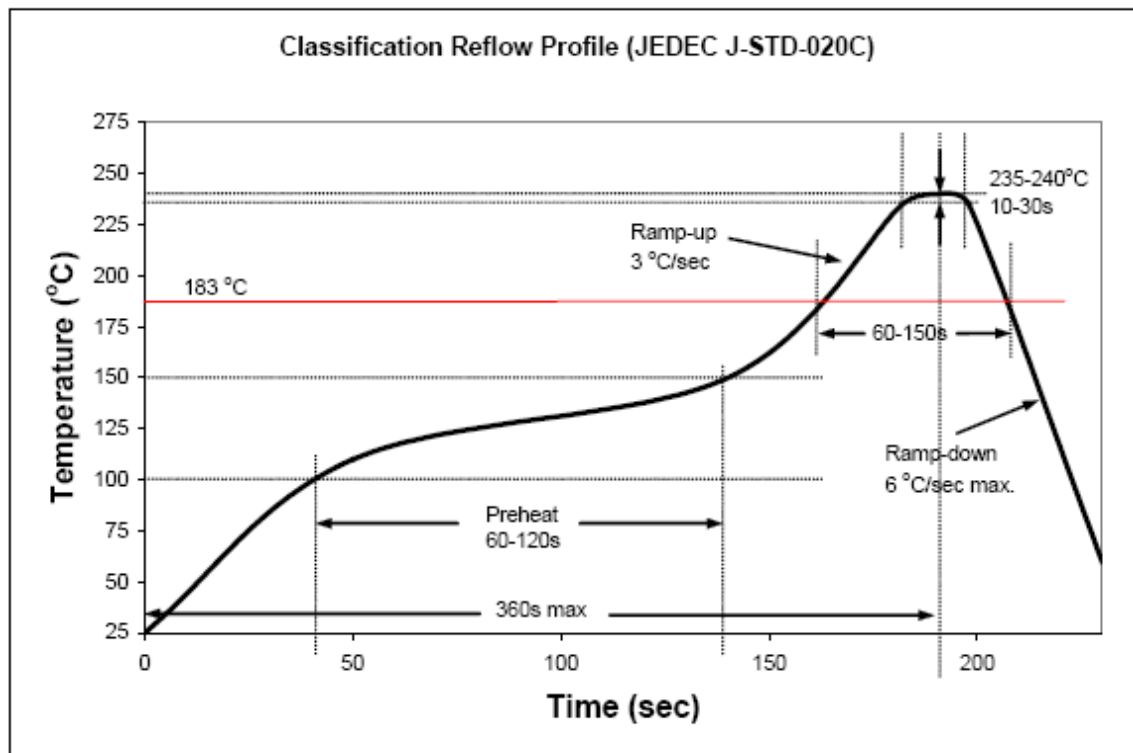


Radiation pattern

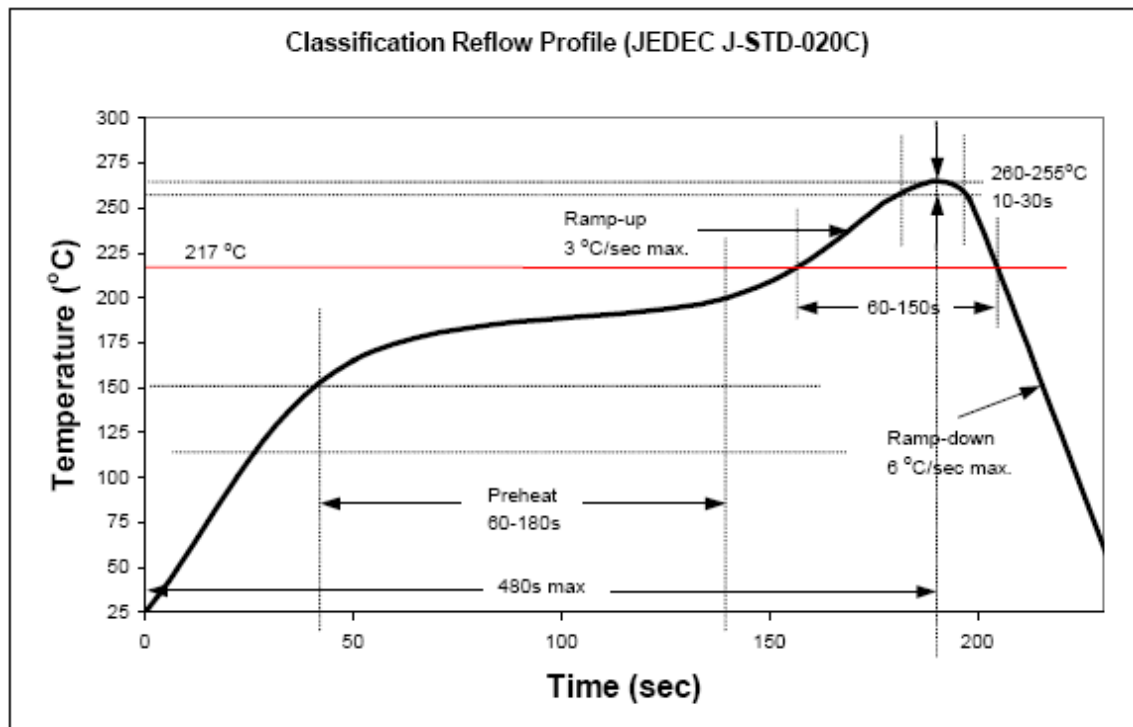


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Recommended Sn-Pb IR-Reflow Soldering Profile.



Recommended Pb Free IR-Reflow Soldering Profile.



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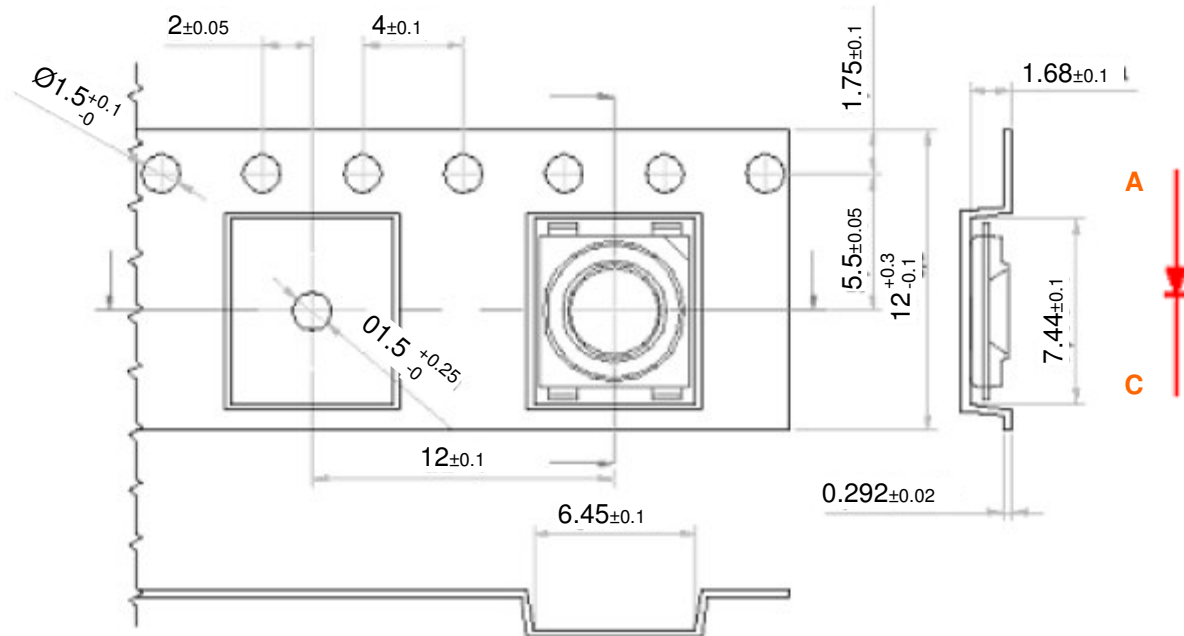
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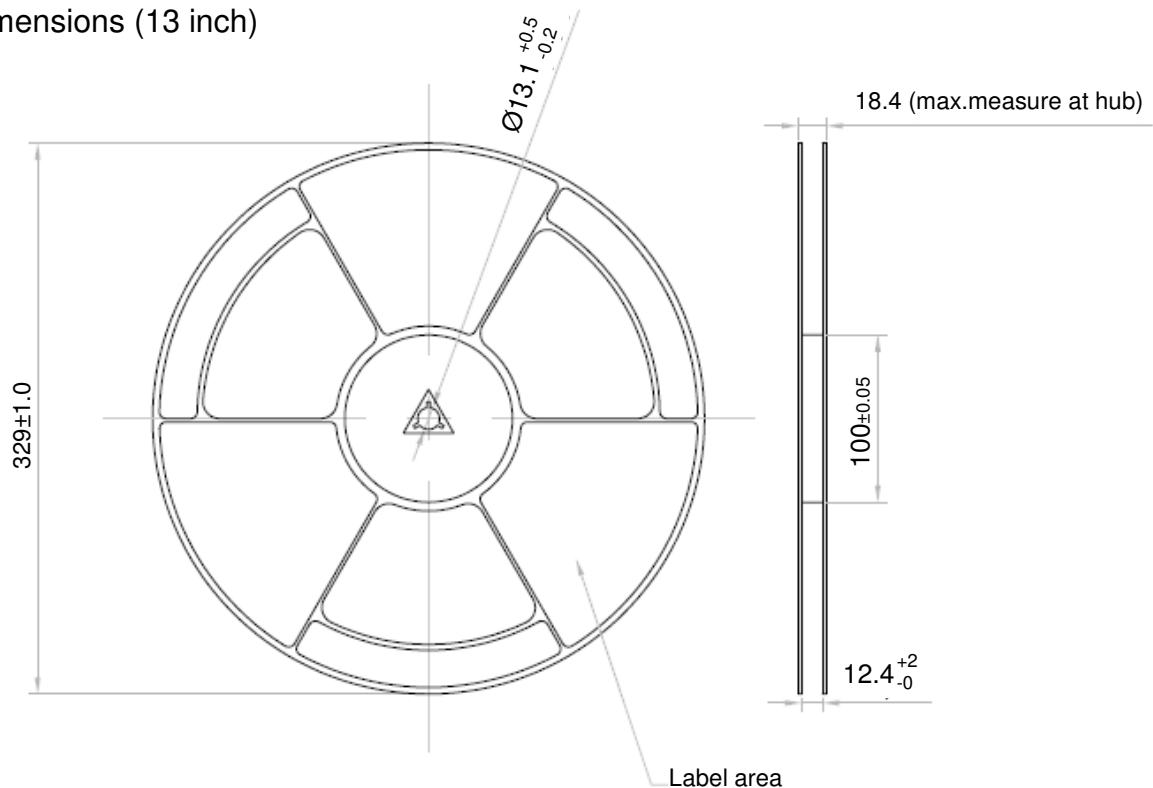
OV55WBCR4

Taping and Orientation

Loaded quantity 2000 pieces per reel



Reel Dimensions (13 inch)

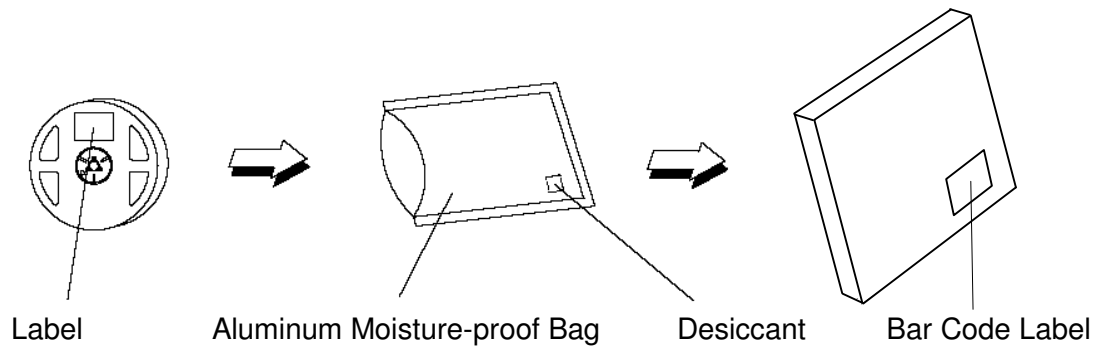


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.5-Watt SMD 6mm White

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Moisture Resistant Packaging



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