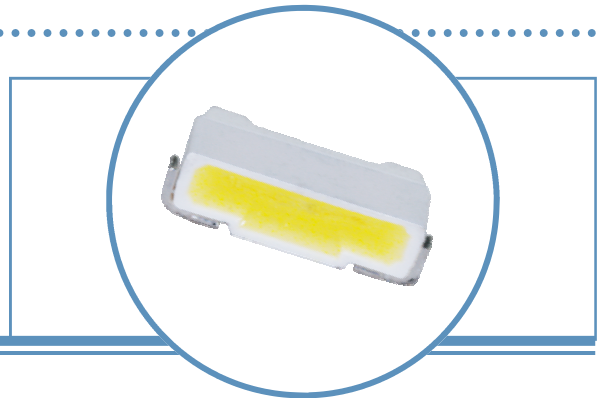


White SMD Right Angle LED

OVSRAWAC2R6

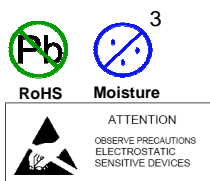
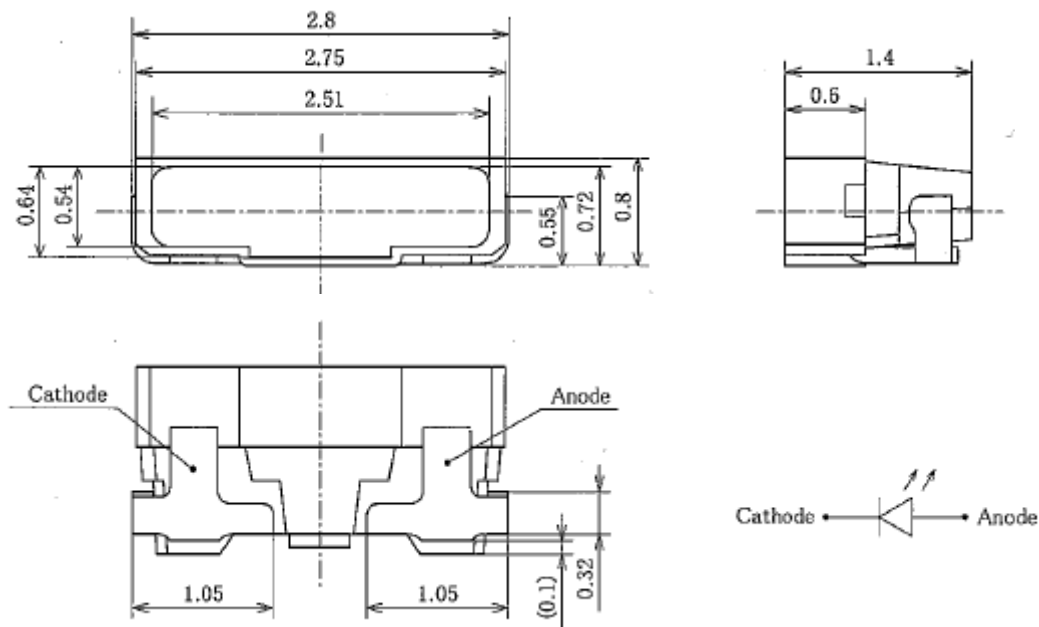
- Side-view white LED
- High optical efficiency
- Low power consumption
- Wide Viewing angles ($x = 120^\circ$, $y = 110^\circ$)
- Surface mount lead frame package with two pins



Applications

- LCD backlight
- Hand-held appliances
- Indicators
- Switch and message illumination

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVSRAWAC2R6	GaN	White	2350	Water Clear



DO NOT LOOK DIRECTLY AT LED WITH UNSHIELDED EYES OR DAMAGE TO RETINA MAY OCCUR.

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White SMD Right Angle LED

OVSRWAC2R6

Absolute Maximum Ratings

T_A = 25° C (on metal core PCB) unless otherwise noted

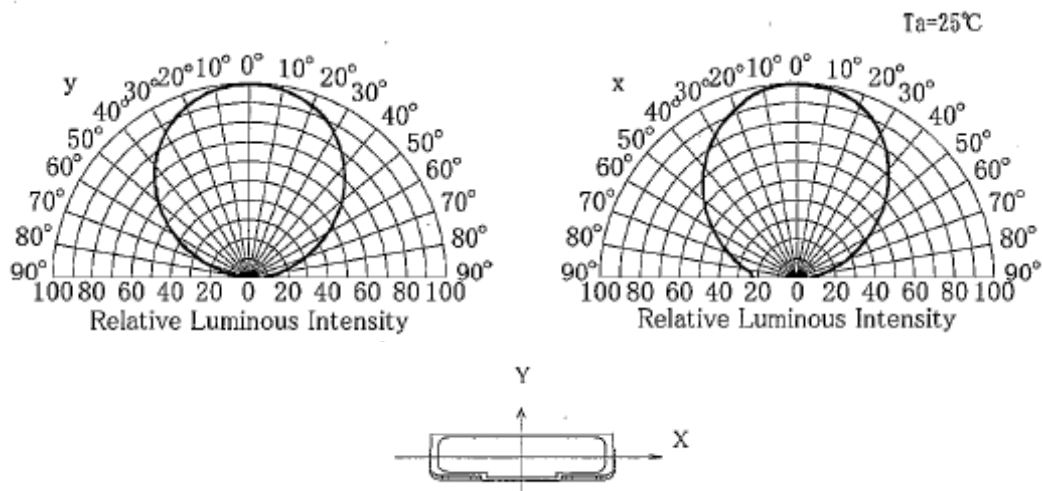
Storage Temperature Range	-40 ~ +100° C
Operating Temperature Range	-30 ~ +85° C
Reverse Voltage	5 V
Continuous Forward Current	35 mA
Forward Current Reduction	-0.43 mA/° C
Peak Forward Current (10% Duty Cycle, Pulse Width 10msec)	80 mA
Power Dissipation	120 mW
Electrostatic Discharge Classification (JEDEC-JESD22-A114F)	Class 2
Moisture Sensitivity Level (IPC / JEDEC J-STD-020C)	3 / 168 Hrs

Electrical Characteristics

T_A = 25° C (on metal core PCB) unless otherwise noted

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I _V	Luminous Intensity	2140	----	2490	mcd	I _F = 20 mA
V _F	Forward Voltage	2.8	----	3.0	V	I _F = 20 mA
I _R	Reverse Current	----	----	2.0	μA	V _R = 5 V
2 Θ _½	50% Power Angle	----	x=120° y=110°	----	deg	I _F = 20 mA
x	Chromaticity Coordinates	Ranking Table Applies			----	I _F = 20 mA
y					----	I _F = 20 mA

Spatial Distribution



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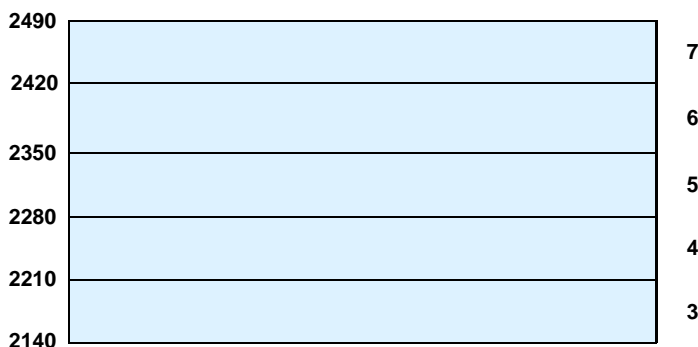
White SMD Right Angle LED

OVSRWAC2R6

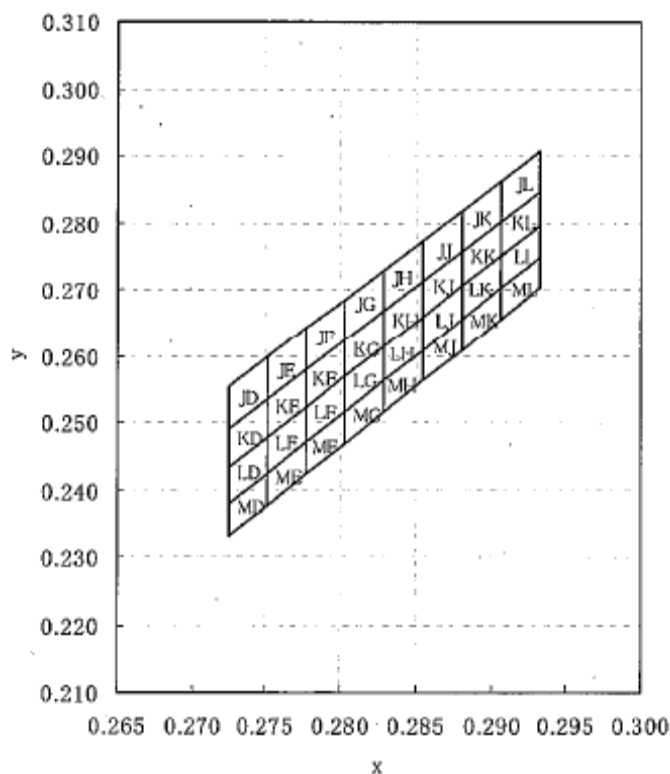
Standard Bins

LEDs are sorted to luminous flux (Φ), luminous intensity (I_v), dominant wavelength (λ_D) and chromaticity coordinates (x,y) bins shown. Each reel will consist of a single intensity bin and a single color bin. Orders may be filled with any of the intensity bins or color bins listed in the following tables. Optek will not accept orders for single intensity bins nor for single color bins. For custom option inquiries, contact your local Optek sales representative.

Luminous Intensity



CIE Chromaticity Diagram



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Chromaticity Coordinates

Rank		JD				JE				JF			
Chromaticity Coordinates	x	0.2725	0.2725	0.2751	0.2751	0.2751	0.2751	0.2777	0.2777	0.2777	0.2777	0.2803	0.2803
	y	0.2554	0.2491	0.2536	0.2598	0.2598	0.2536	0.2580	0.2642	0.2642	0.2580	0.2625	0.2686
Rank		JG				JH				JJ			
Chromaticity Coordinates	x	0.2803	0.2803	0.2829	0.2829	0.2829	0.2829	0.2855	0.2855	0.2855	0.2855	0.2881	0.2881
	y	0.2686	0.2625	0.2669	0.2729	0.2729	0.2669	0.2713	0.2773	0.2773	0.2713	0.2758	0.2817
Rank		JK				JL							
Chromaticity Coordinates	x	0.2881	0.2881	0.2907	0.2907	0.2907	0.2907	0.2933	0.2933				
	y	0.2817	0.2758	0.2802	0.2861	0.2861	0.2802	0.2847	0.2905				

Rank		KD				KE				KF			
Chromaticity Coordinates	x	0.2725	0.2725	0.2751	0.2751	0.2751	0.2751	0.2777	0.2777	0.2777	0.2777	0.2803	0.2803
	y	0.2491	0.2432	0.2478	0.2536	0.2536	0.2478	0.2523	0.2580	0.2580	0.2523	0.2569	0.2625
Rank		KG				KH				KJ			
Chromaticity Coordinates	x	0.2803	0.2803	0.2829	0.2829	0.2829	0.2829	0.2855	0.2855	0.2855	0.2855	0.2881	0.2881
	y	0.2625	0.2569	0.2614	0.2669	0.2669	0.2614	0.2660	0.2713	0.2713	0.2660	0.2705	0.2758
Rank		KK				KL							
Chromaticity Coordinates	x	0.2881	0.2881	0.2907	0.2907	0.2907	0.2907	0.2933	0.2933				
	y	0.2758	0.2705	0.2751	0.2802	0.2802	0.2751	0.2796	0.2847				

Rank		LD				LE				LF			
Chromaticity Coordinates	x	0.2725	0.2725	0.2751	0.2751	0.2751	0.2751	0.2777	0.2777	0.2777	0.2777	0.2803	0.2803
	y	0.2432	0.2379	0.2425	0.2478	0.2478	0.2425	0.2471	0.2523	0.2523	0.2471	0.2517	0.2569
Rank		LG				LH				LJ			
Chromaticity Coordinates	x	0.2803	0.2803	0.2829	0.2829	0.2829	0.2829	0.2855	0.2855	0.2855	0.2855	0.2881	0.2881
	y	0.2569	0.2517	0.2563	0.2614	0.2614	0.2563	0.2609	0.2660	0.2660	0.2609	0.2656	0.2705
Rank		LK				LL							
Chromaticity Coordinates	x	0.2881	0.2881	0.2907	0.2907	0.2907	0.2907	0.2933	0.2933				
	y	0.2705	0.2656	0.2702	0.2751	0.2751	0.2702	0.2748	0.2796				

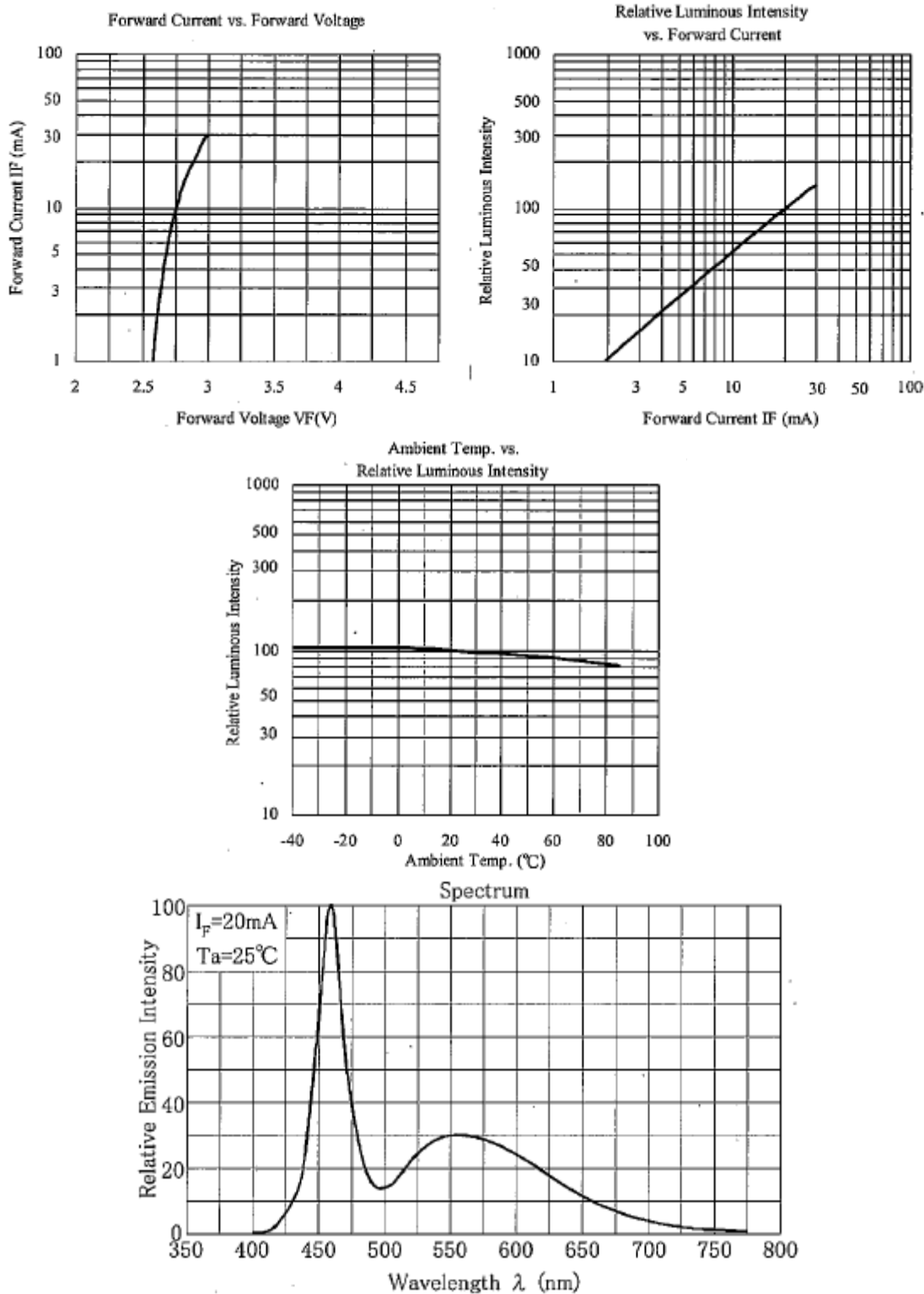
Rank		MD				ME				MF			
Chromaticity Coordinates	x	0.2725	0.2725	0.2751	0.2751	0.2751	0.2751	0.2777	0.2777	0.2777	0.2777	0.2803	0.2803
	y	0.2379	0.2330	0.2377	0.2425	0.2425	0.2377	0.2423	0.2471	0.2471	0.2423	0.2470	0.2517
Rank		MG				MH				MJ			
Chromaticity Coordinates	x	0.2803	0.2803	0.2829	0.2829	0.2829	0.2829	0.2855	0.2855	0.2855	0.2855	0.2881	0.2881
	y	0.2517	0.2470	0.2516	0.2563	0.2563	0.2516	0.2562	0.2609	0.2609	0.2562	0.2609	0.2656
Rank		MK				ML							
Chromaticity Coordinates	x	0.2881	0.2881	0.2907	0.2907	0.2907	0.2907	0.2933	0.2933				
	y	0.2656	0.2609	0.2655	0.2702	0.2702	0.2655	0.2702	0.2748				

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White SMD Right Angle LED

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Typical Electro-Optical Characteristics Curves

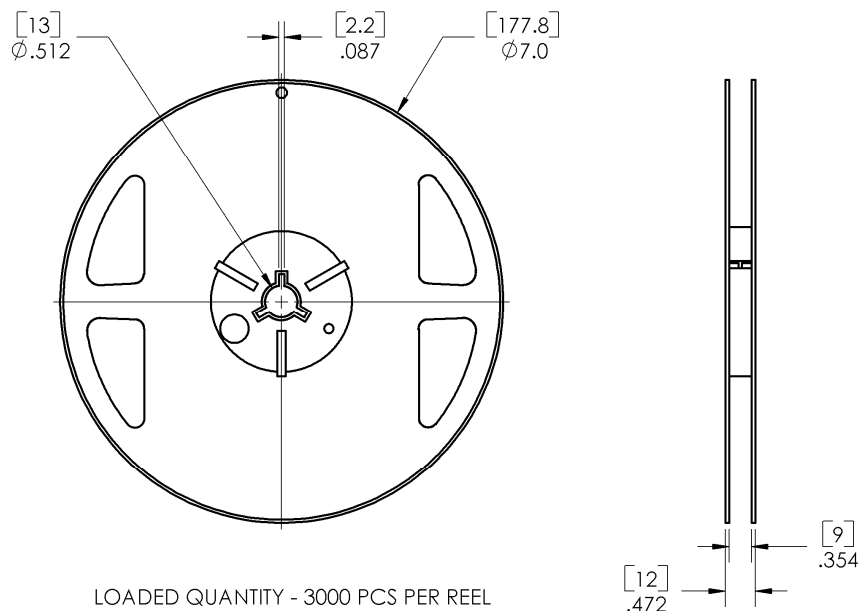


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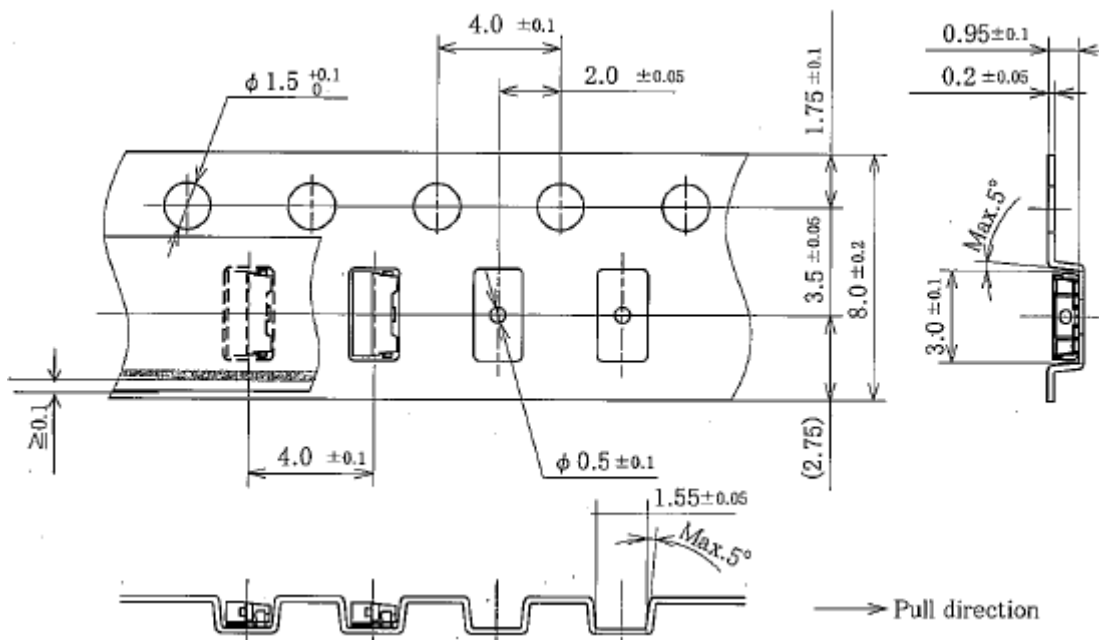
White SMD Right Angle LED

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Moisture Resistant Reel Packaging: Each 7-inch reel is individually bar code labeled and sealed in an aluminum moisture proof bag with desiccant.



Carrier Tape Dimensions: Loaded quantity 3000 pieces per reel

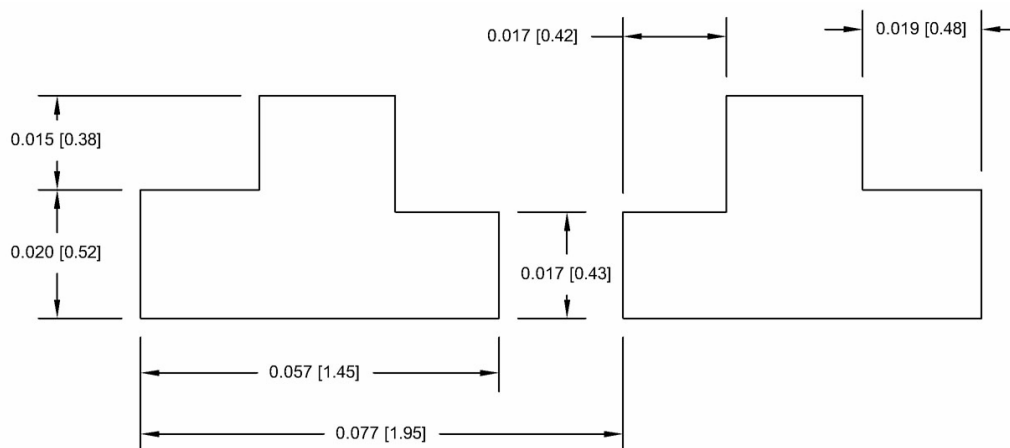


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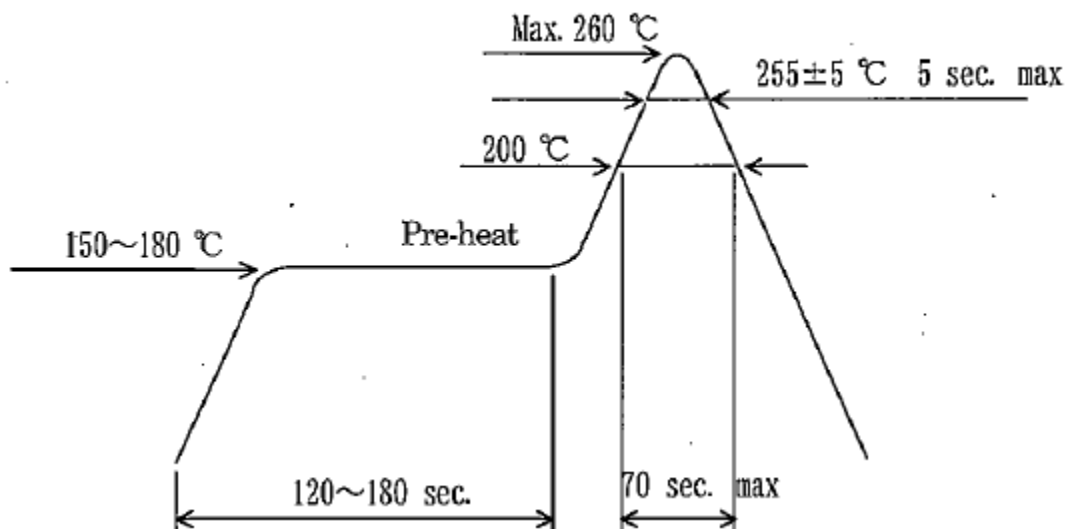
White SMD Right Angle LED

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Recommended Soldering Pattern (Unit: mm)



Recommended Reflow Soldering Profile



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