Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPB-3025EYC	High Efficiency Red (GaAsP/GaP)	Water Clear	8	15	- 120°
			*3	*8	
	Yellow (GaAsP/GaP)		5	10	
			*5	*10	

- Notes: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%. *Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Yellow	627 590		nm	IF=20mA	
λD [1]	Dominant Wavelength	High Efficiency Red Yellow	617 588		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	High Efficiency Red Yellow	45 35		nm	IF=20mA	
С	Capacitance	High Efficiency Red Yellow	15 20		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	High Efficiency Red Yellow	2 2.1	2.5 2.5	V	IF=20mA	
lr	Reverse Current	High Efficiency Red Yellow		10 10	uA	V _R = 5V	

Notes:

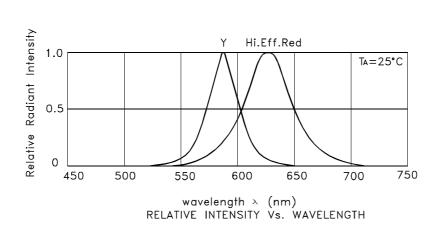
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

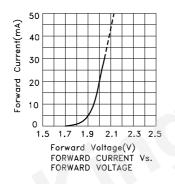
Parameter	High Efficiency Red	Yellow	Units		
Power dissipation	75	75 75			
DC Forward Current	30	30	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	5		V		
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

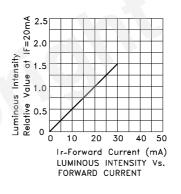
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

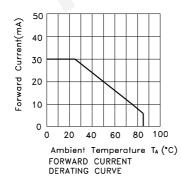
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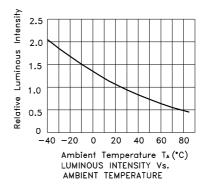


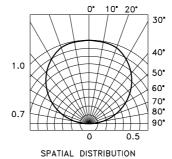
KPB-3025EYC High Efficiency Red





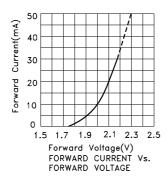


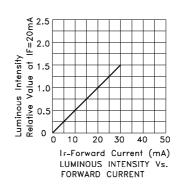


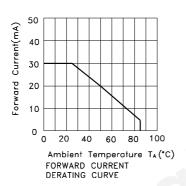


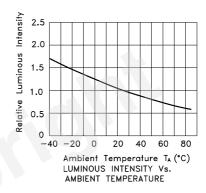
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Yellow



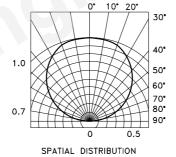






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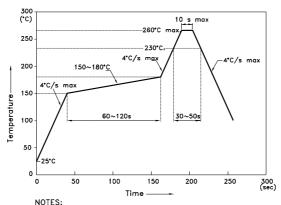


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KPB-3025EYC

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



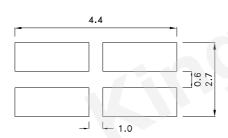
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

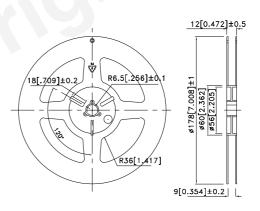
 3.Number of reflow process shall be 2 times or less.

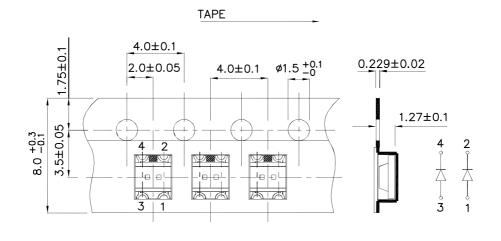
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)

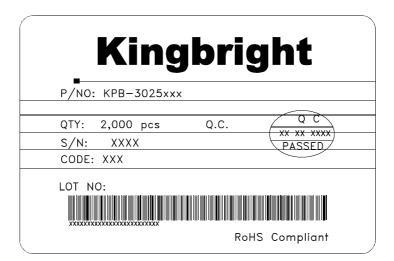
Reel Dimension





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PACKING & LABEL SPECIFICATIONS KPB-3025EYC LABEL USER DIRECTION OF FEED LABEL 2,000pcs / Reel 1 Reel / Bag OUTSIDE OUTSIDE LABEL LABEL **Kingbright Kingbright** 30K / 55# BOX 60K / 56# BOX



Detailed application notes are listed on our website. http://www.kingbright.com/application_notes

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