

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KPB-3025EYC	High Efficiency Red (GaAsP/GaP)	Water Clear	8	15	120°
			*3	*8	
	Yellow (GaAsP/GaP)		5	10	
			*5	*10	

Notes:

1. $\theta_{1/2}$ 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	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Yellow	627 590		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	High Efficiency Red Yellow	617 588		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red Yellow	45 35		nm	I _F =20mA
C	Capacitance	High Efficiency Red Yellow	15 20		pF	V _F =0V; f=1MHz
V _F [2]	Forward Voltage	High Efficiency Red Yellow	2 2.1	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	High Efficiency Red Yellow		10 10	uA	V _R = 5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

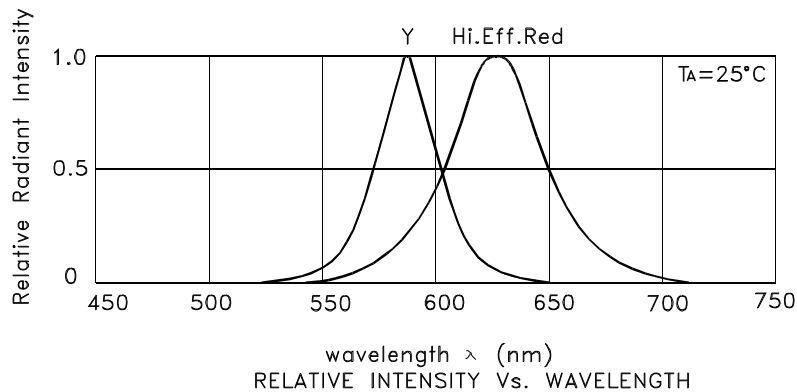
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

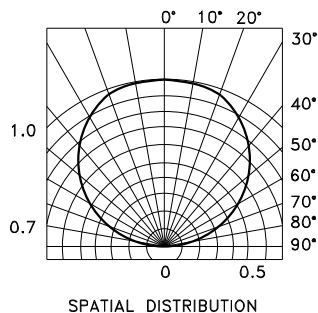
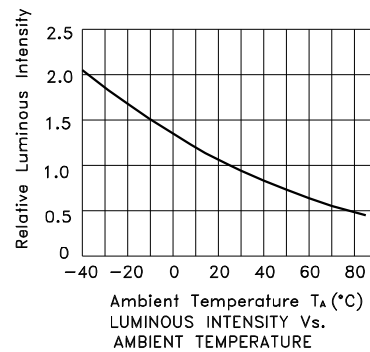
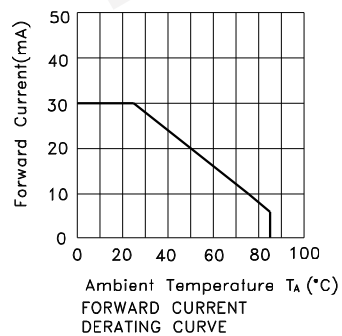
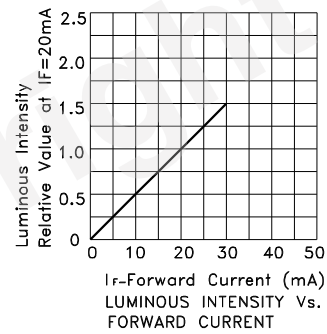
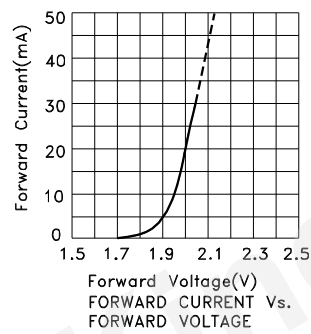
Parameter	High Efficiency Red	Yellow	Units
Power dissipation	75	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	160	140	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

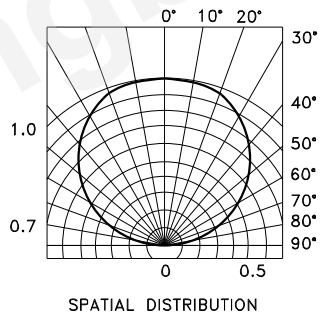
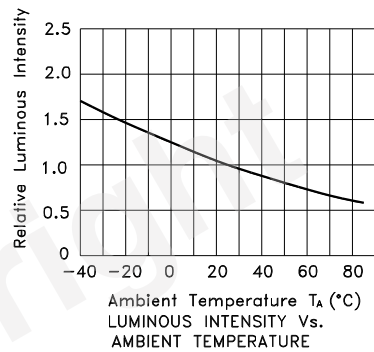
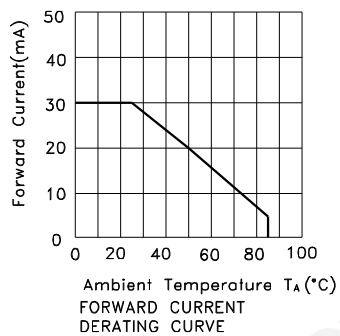
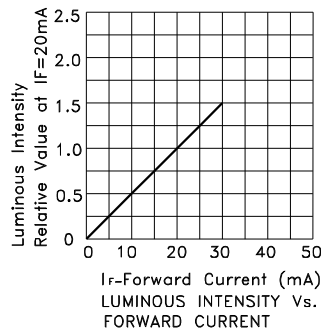
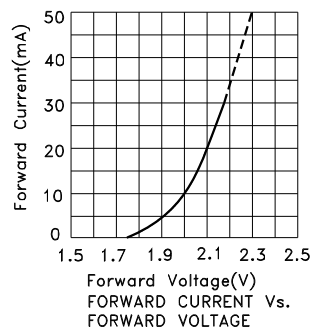
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPB-3025EYC High Efficiency Red

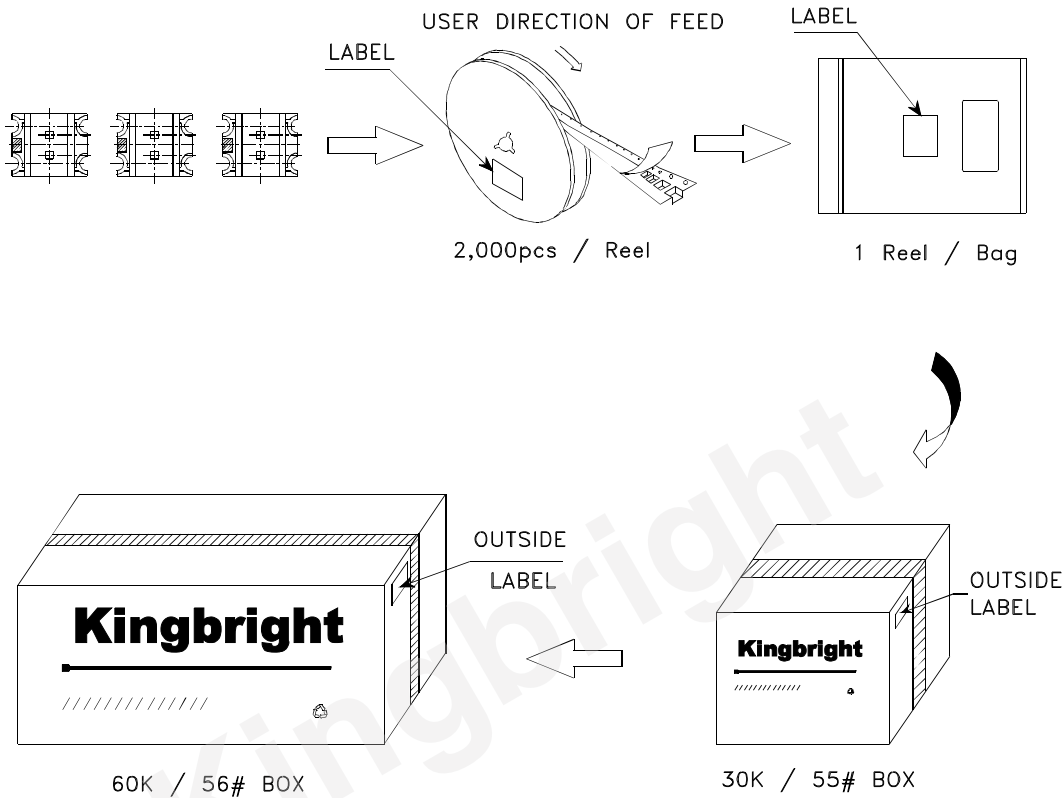



Yellow



PACKING & LABEL SPECIFICATIONS

KPB-3025EYC



Kingbright		
P/NO: KPB-3025xxx		
QTY: 2,000 pcs	Q.C.	Q C xx-xx-xxxx PASSED
S/N: XXXX		
CODE: XXX		
LOT NO:		
 xxxxxxxxxxxxxxxxxxxxxxxx		
RoHS Compliant		

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