

KPB-3025ESGC HIGH EFFICIENCY RED

SUPER BRIGHT GREEN

KPB-3025EYC HIGH EFFICIENCY RED / YELLOW

KPB-3025NSGC PURE ORANGE / SUPER BRIGHT GREEN

KPB-3025YSGC YELLOW / SUPER BRIGHT GREEN

Features

- 3.0mmx2.5mm SMT LED, 1.1mm THICKNESS.
- BI -COLOR, LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.

Description

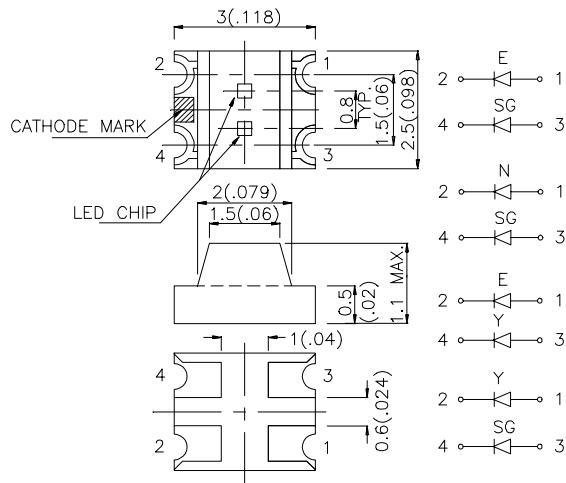
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Pure Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Pure Orange Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.0079)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
KPB-3025ESGC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	5	12	120°
	SUPER BRIGHT GREEN (GaP)		3	12	
KPB-3025EYC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	5	12	120°
	YELLOW (GaAsP/GaP)		3	8	
KPB-3025NSGC	PURE ORANGE (GaAsP/GaP)	WATER CLEAR	5	12	120°
	SUPER BRIGHT GREEN (GaP)		3	12	
KPB-3025YSGC	YELLOW (GaAsP/GaP)	WATER CLEAR	3	8	120°
	SUPER BRIGHT GREEN (GaP)		3	12	

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

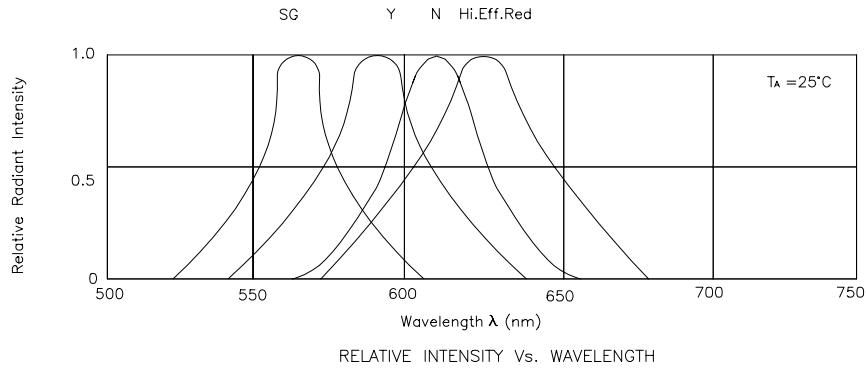
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	High Efficiency Red Super Bright Green Yellow Pure Orange	627 565 590 607		nm	IF=20mA
λ _D	Dominate Wavelength	High Efficiency Red Super Bright Green Yellow Pure Orange	625 568 588 610		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	High Efficiency Red Super Bright Green Yellow Pure Orange	45 30 35 35		nm	IF=20mA
C	Capacitance	High Efficiency Red Super Bright Green Yellow Pure Orange	15 15 20 15		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Super Bright Green Yellow Pure Orange	2.0 2.2 2.1 2.05	2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

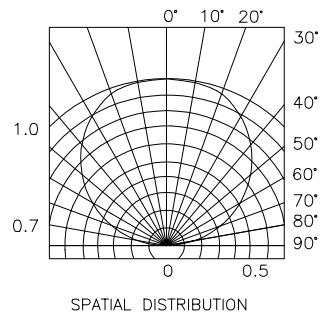
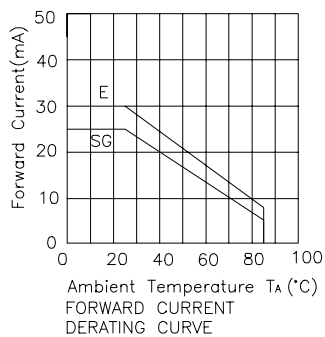
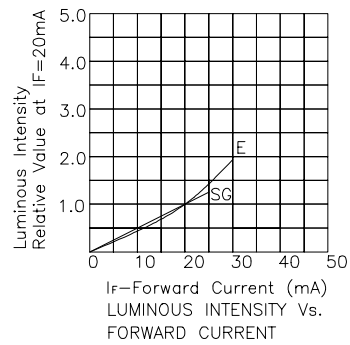
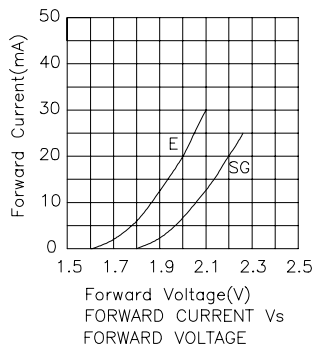
Parameter	High Efficiency Red	Super Bright Green	Yellow	Pure Orange	Units
Power dissipation	105	105	105	105	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	145	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C				

Note:

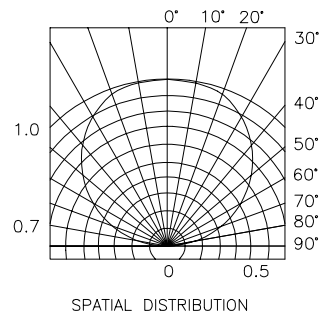
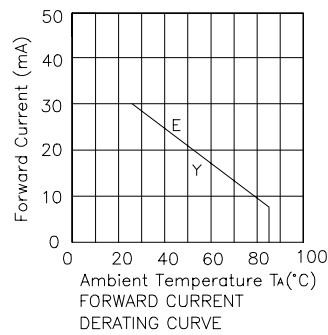
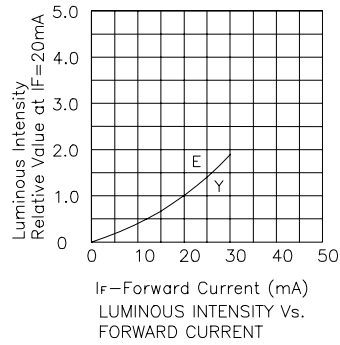
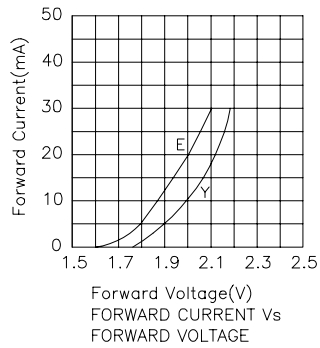
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



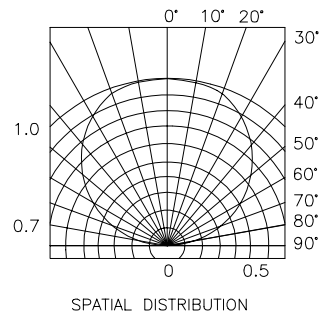
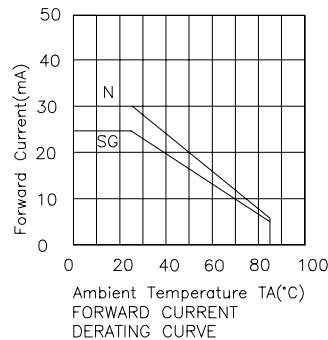
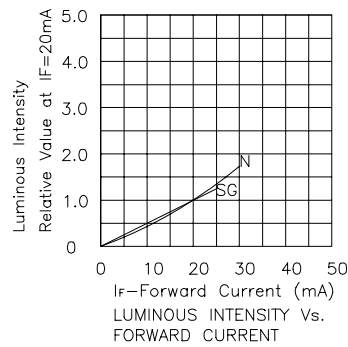
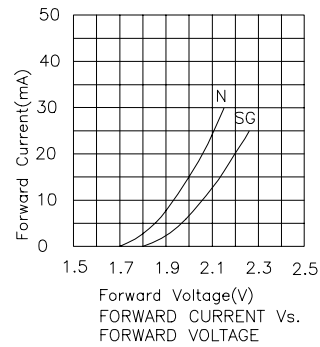
High Efficiency Red / Super Bright Green KPB-3025ESGC



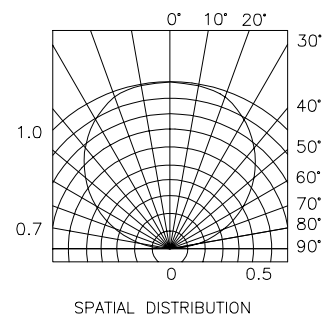
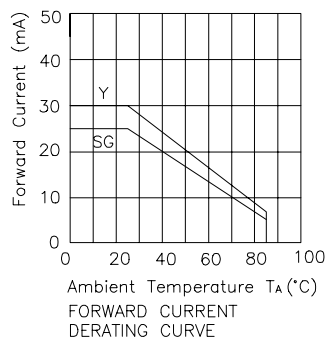
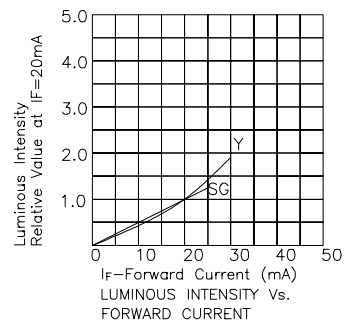
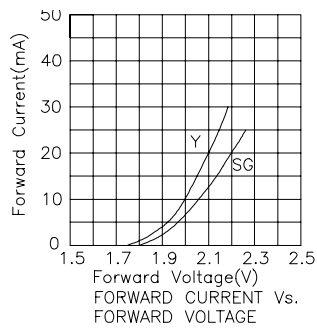
High Efficiency Red / Yellow KPB-3025EYC



Pure Orange / Super Bright Yellow KPB-3025NSGC

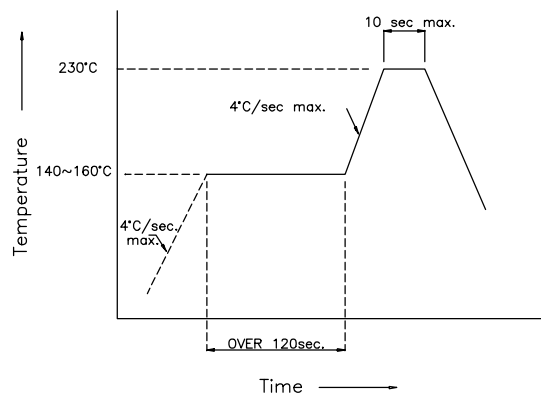


Super Bright Green / Yellow KPB-3025YSGC

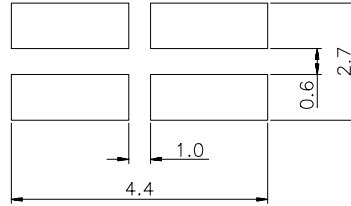


KPB-3025 SMT Reflow Soldering Instruction

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern
(Units : mm)



Tape Specifications
(Units : mm)

