

KPBL-3025ESGC HIGH EFFICIENCY RED/SUPER BRIGHT GREEN

KPBL-3025EYC HIGH EFFICIENCY RED/YELLOW

KPBL-3025NSGC PURE ORANGE/SUPER BRIGHT GREEN

KPBL-3025YSGC YELLOW / SUPER BRIGHT GREEN

Features

- 3.0mmx2.5mm SMT LED, 1.4mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- INNER LENS TYPE
- PACKAGE : 2000PCS / REEL.

Description

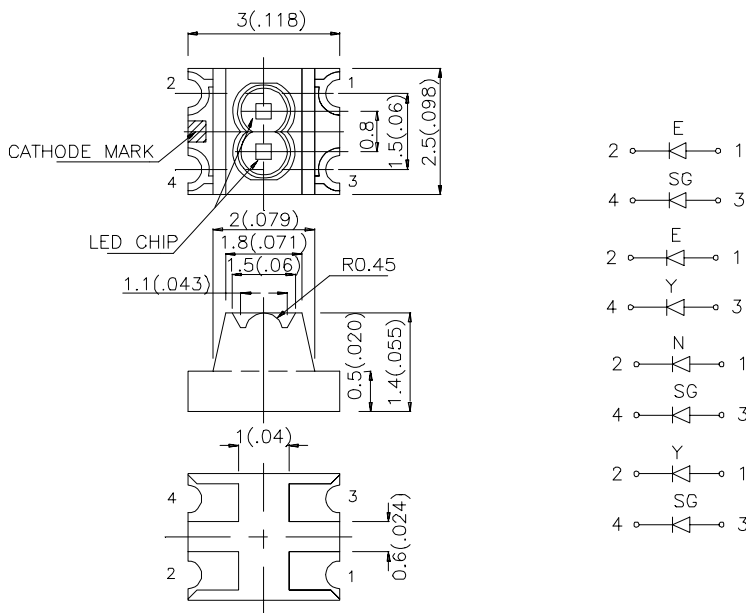
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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.	θ1/2
KPBL-3025ESGC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	8	20	100°
	SUPER BRIGHT GREEN (GaP)		8	20	
KPBL-3025EYC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	8	20	100°
	YELLOW (GaAsP/GaP)		5	15	
KPBL-3025NSGC	PURE ORANGE (GaAsP/GaP)	WATER CLEAR	8	20	100°
	SUPER BRIGHT GREEN (GaP)		8	20	
KPBL-3025YSGC	YELLOW (GaAsP/GaP)	WATER CLEAR	5	15	100°
	SUPER BRIGHT GREEN (GaP)		8	20	

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

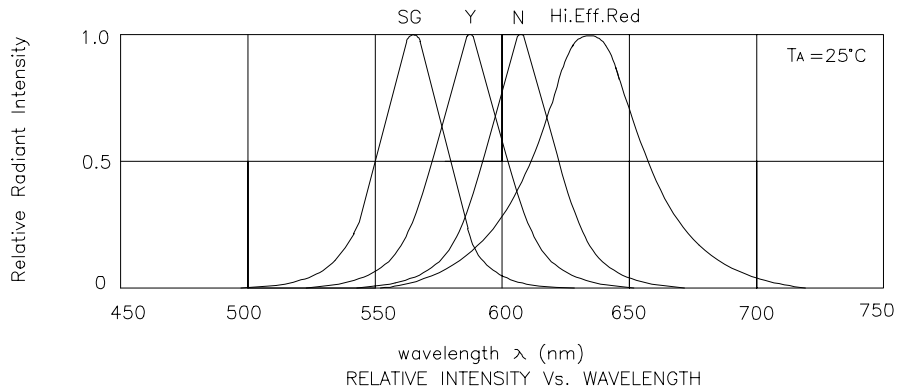
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	High Efficiency Red Yellow Super Bright Green Pure Orange	627 590 565 607		nm	I _F =20mA
λ _D	Dominate Wavelength	High Efficiency Red Yellow Super Bright Green Pure Orange	625 588 568 610		nm	I _F =20mA
Δλ _{1/2}	Spectral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

Absolute Maximum Ratings at T_A=25°C

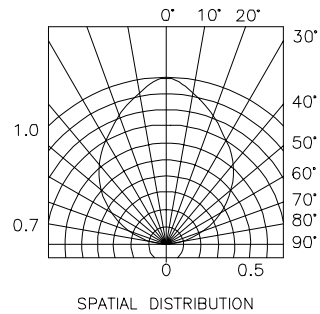
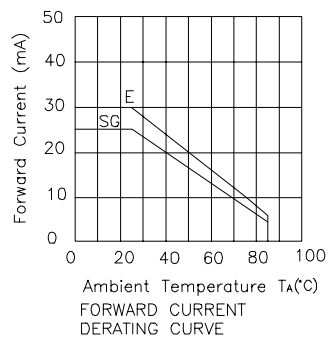
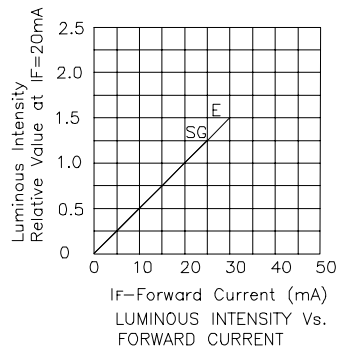
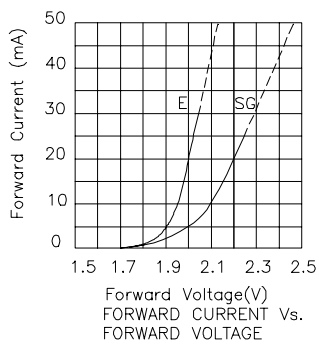
Parameter	High Efficiency Red	Yellow	Super Bright Green	Pure Orange	Units
Power Dissipation	105	105	105	105	mW
DC Forward Current	30	30	25	25	mA
Peak Forward Current [1]	160	140	140	145	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C				

Note:

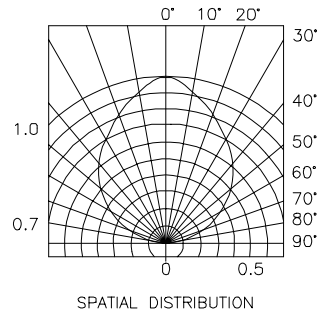
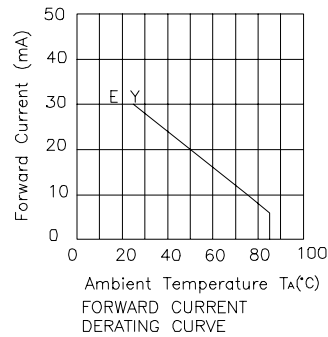
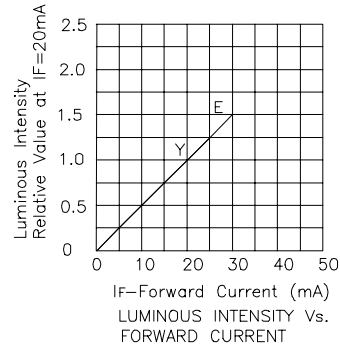
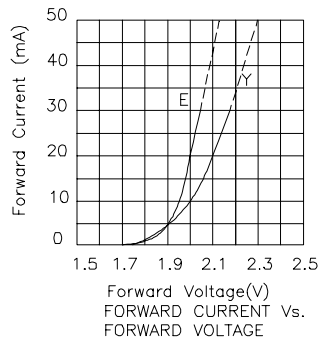
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



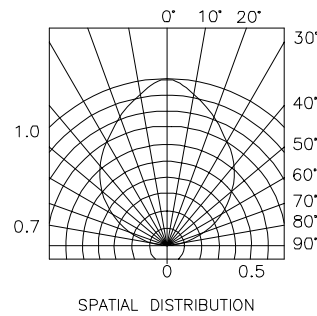
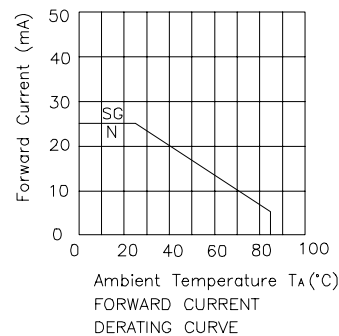
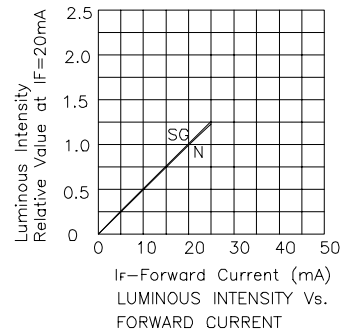
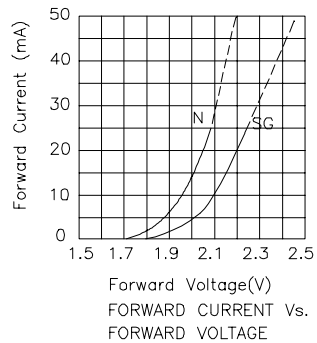
High Efficiency Red / Super Bright Green KPBL-3025ESGC



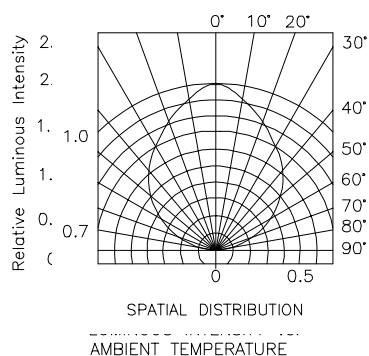
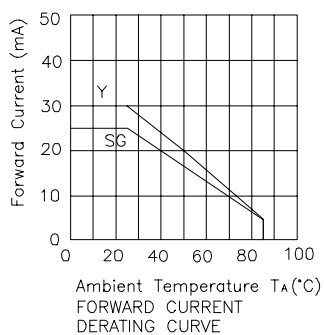
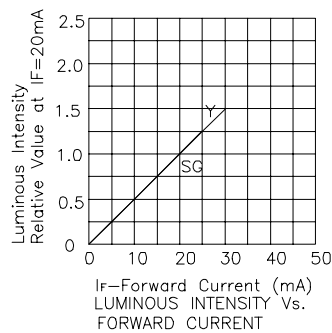
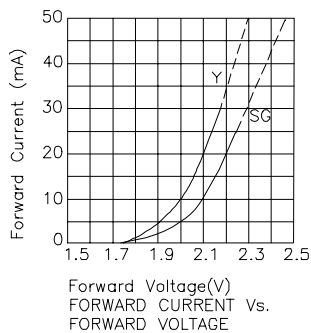
High Efficiency Red / Yellow KPBL-3025EYC



Pure Orange / Super Bright Green KPBL-3025NSGC

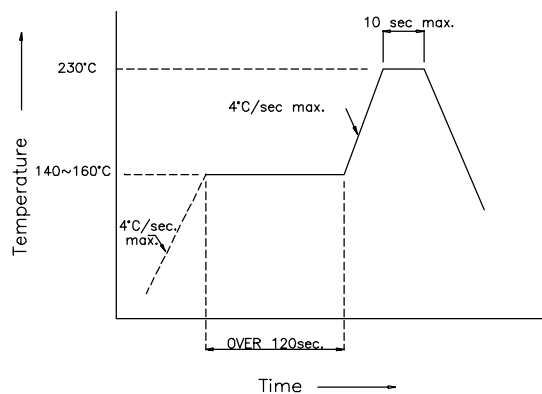


Yellow/Super Bright Green KPBL-3025YSGC

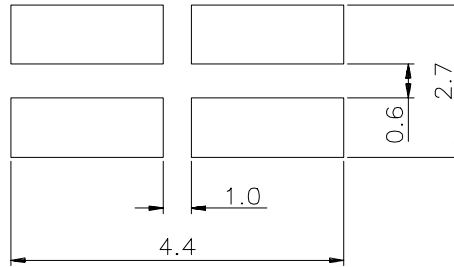


KPBL-3025 SMT Reflow Soldering Instruction

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)

