

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	θ1/2
KPKF-3030SEEVGPBEC	HYPER ORANGE(InGaAlP)	WATER CLEAR	180	400	100°
	GREEN (InGaN)		110	250	
	BLUE (InGaN)		50	120	

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 TA=25°C

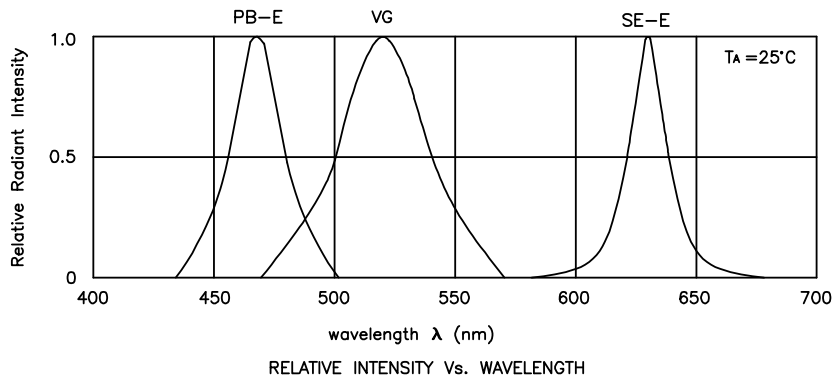
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Orange Green Blue	630 520 465		nm	IF=20mA
λD	Dominant Wavelength	Hyper Orange Green Blue	621 525 470		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Orange Green Blue	20 38 25		nm	IF=20mA
C	Capacitance	Hyper Orange Green Blue	25 45 110		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Orange Green Blue	2.0 3.5 3.7	2.5 4.5 4.3	V	IF=20mA
IR	Reverse Current	Hyper Orange Green Blue		10 10 10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

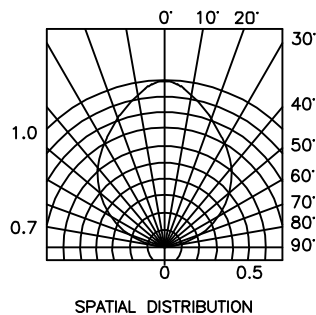
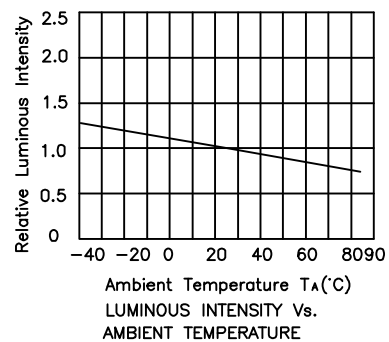
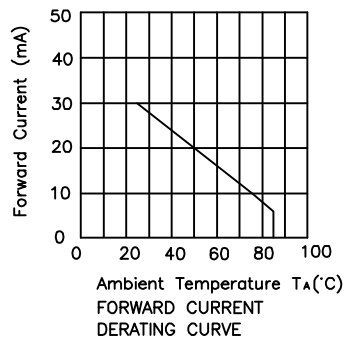
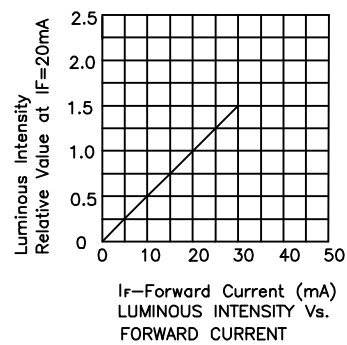
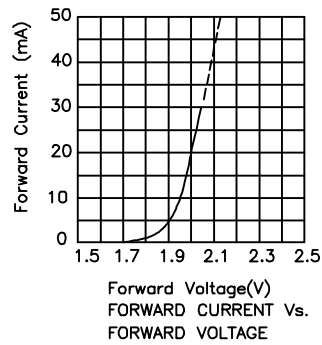
Parameter	Hyper Orange	Green	Blue	Units
Power dissipation	150	105	120	mW
DC Forward Current	30	30	30	mA
Peak Forward Current [1]	195	150	160	mA
Reverse Voltage	5			V
Operating/Storage Temperature	-40°C To +85°C			

Note:

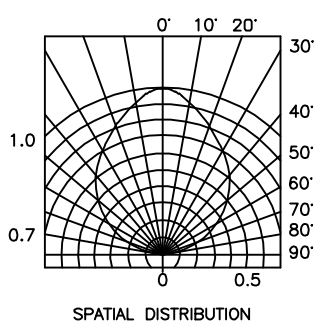
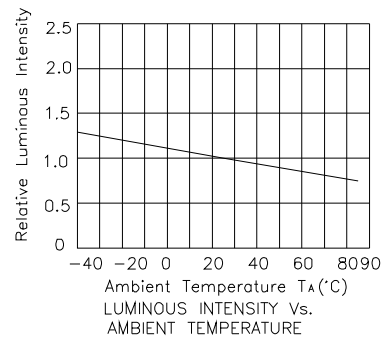
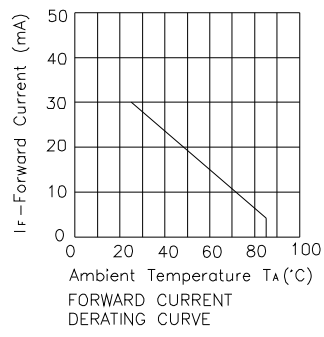
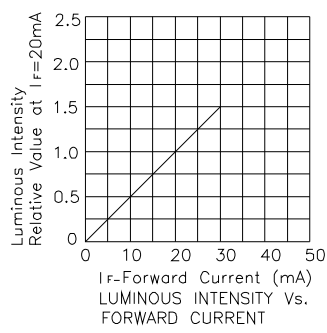
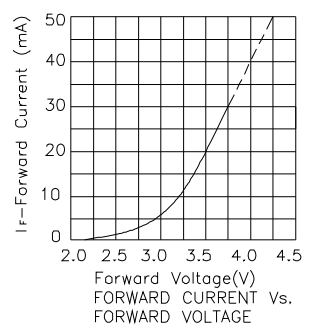
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



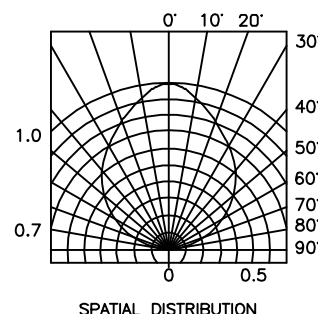
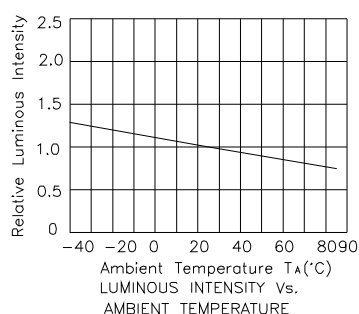
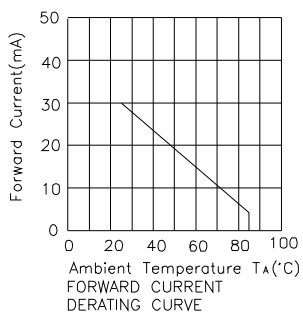
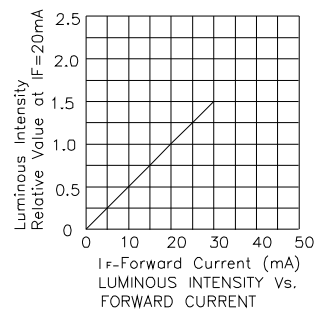
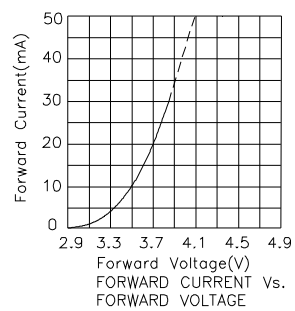
KPKF-3030SEEVGPBEC Hyper Orange



Green

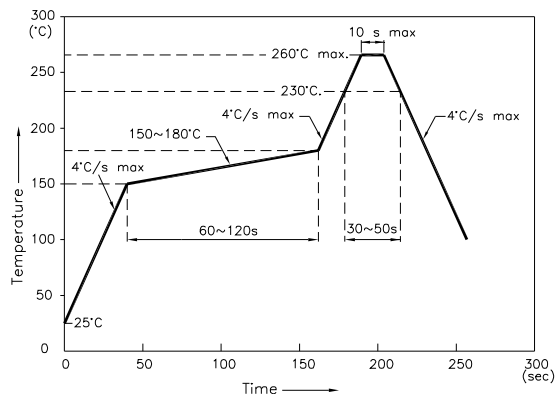


Blue



KPKF-3030SEEVGPBEC

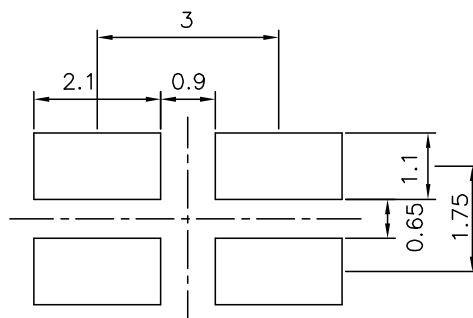
Reflow Soldering Profile For Lead-free SMT Process.



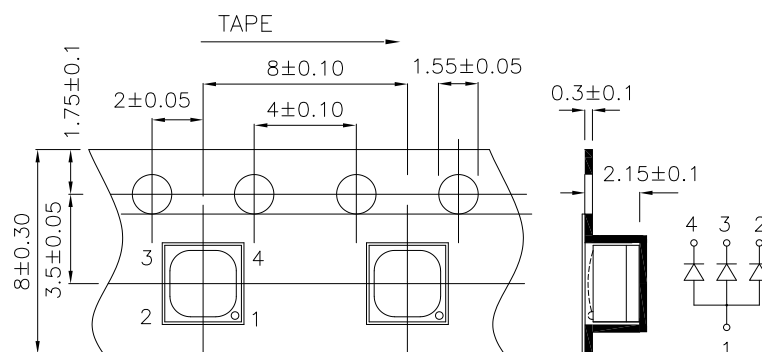
NOTES:

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)



Tape Specifications (Units : mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity/ Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters