KB464AB45 (KLB-521 B)

1. Descriptions

KB464AB45 (KLB-521 B) is a high bright InGaN blue LED and has the optimized optical characteristics.

2. Features

- Transparent epoxy lens
- High Optical Output
- Typical Luminous Intensity(IV)

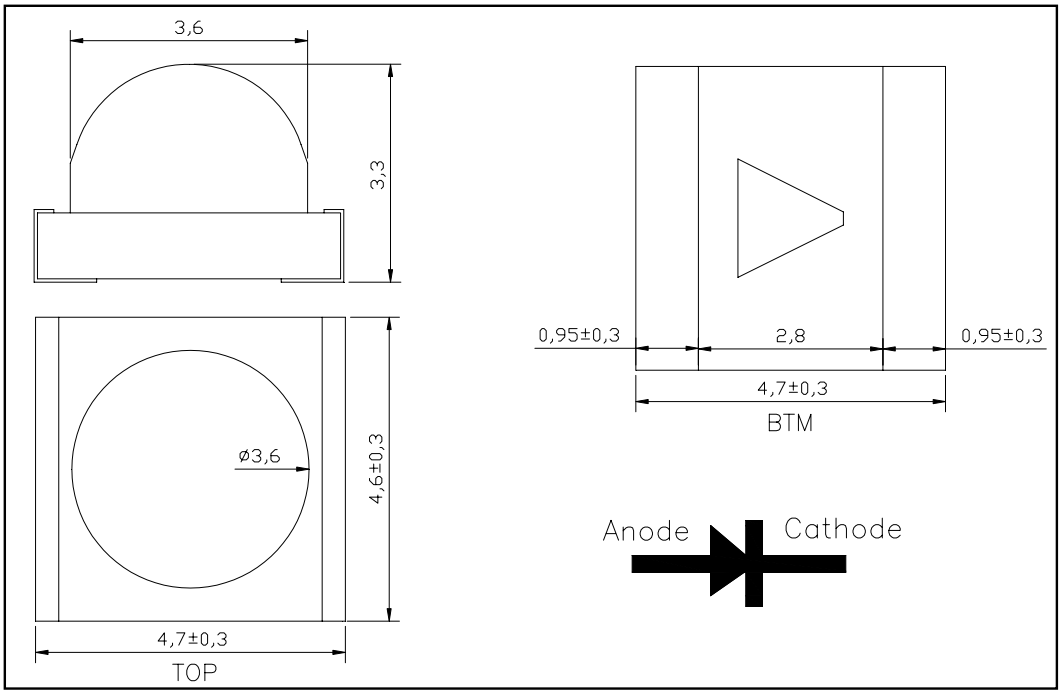
  : 800mcd for Blue @ IF=20mA

3. Application

- Display
- Indicator
- Signage
- Auto Focus
- Amusement

4. Outline Dimensions and Material Descriptions

- Outline Dimensions



The contents of this data sheet are subject to change without advance notice for the purpose of improvement.
When using this product, would you please refer to the latest specifications.

5. Absolute Maximums

Parameter	Symbol	Ratings	Unit
Reverse voltage	V_R	5	V
Forward current	I_F	30	mA
Pulse forward current *1	I_{FP}	0.5	A
Power dissipation	P_D	105	mW
Operating temperature	$T_{opr.}$	-30 ~ +85	°C
Storage temperature	$T_{stg.}$	-40 ~ +100	°C
Soldering Temperature *2	$T_{sol.}$	260	°C

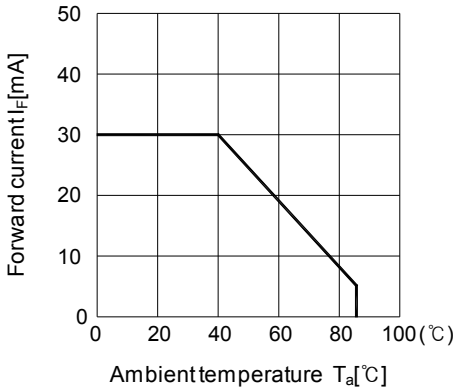
*1. IFP Measured under duty £ 1/100 @ tw=10ms

6. Electro-Optical Characteristics (T_A = 25℃)

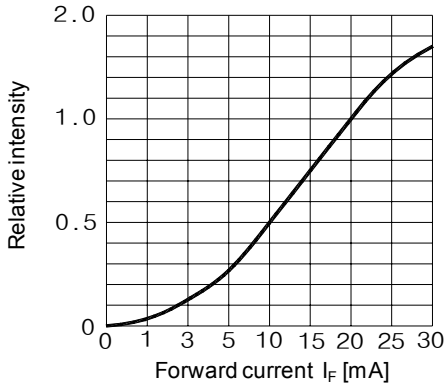
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 20 mA		3.2	3.6	V
Reverse current	I_R	V_R = 5 V	-	-	50	uA
Luminous Intensity	Iv	I_F = 20 mA	0.5	0.8	-	cd
Dominant Wave Length	λ_D	I_F = 20 mA	455	-	465	nm
Spectral half bandwidth	$\Delta\lambda$	I_F = 20 mA	-	15	-	nm
Half angle	$2\Delta\theta_{1/2}$	I_F = 20 mA	-	80	-	deg.

7. Characteristic Graphs

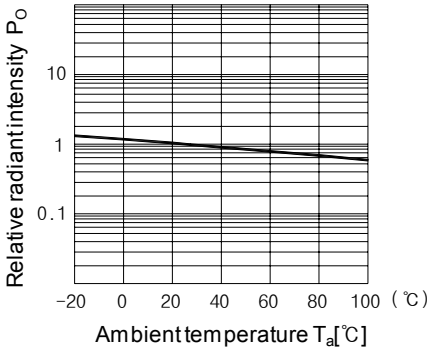
Forward current vs. Ambient temperature



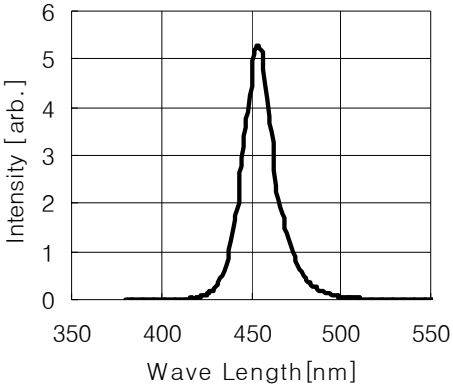
Radiant Intensity vs. Forward current



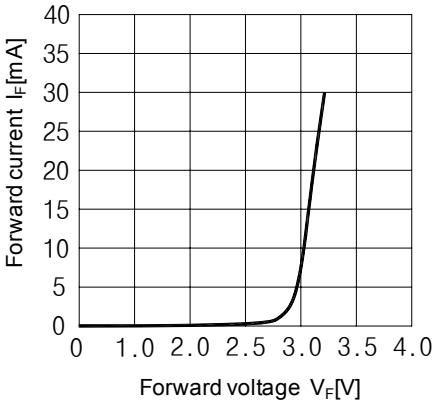
Relative radiant intensity vs. Ambient temperature



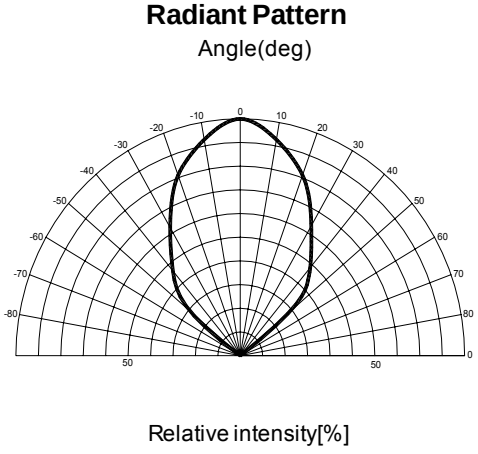
Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern



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