

**KB464AG52 (KLB-521 G)****1. Descriptions**

KB464AG52 (KLB-521 G) is a high bright InGaP Green LED and has the optimized optical characteristics.

**2. Features**

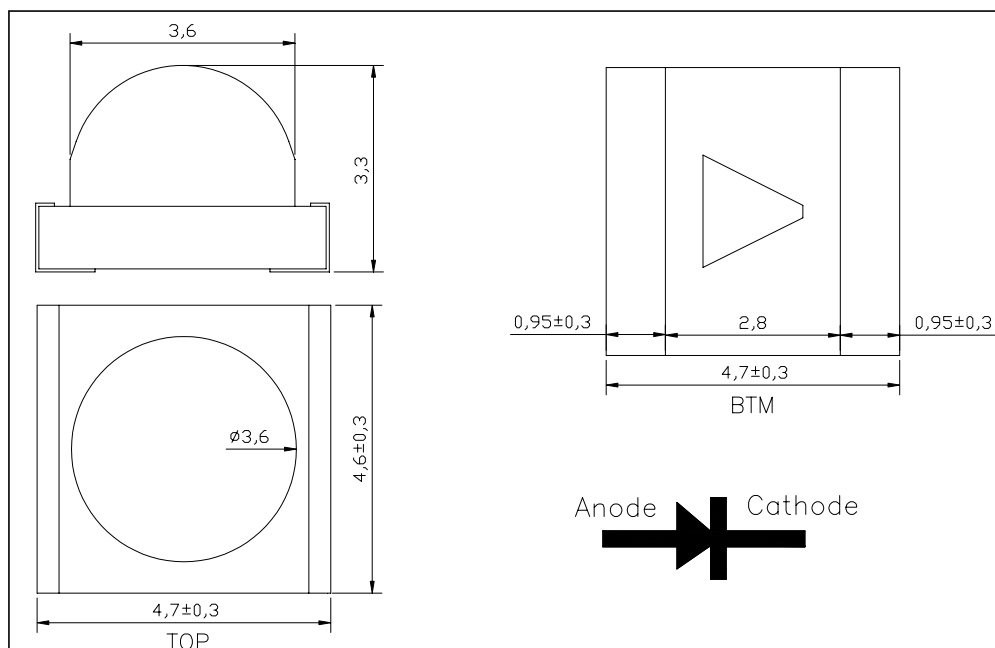
- ◆ Transparent epoxy lens
- ◆ High Optical Output
- ◆ Typical Luminous Intensity(IV)  
: 2.5cd for Green @ IF=20mA

**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.

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## 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	$T_{sol.}$	260	°C

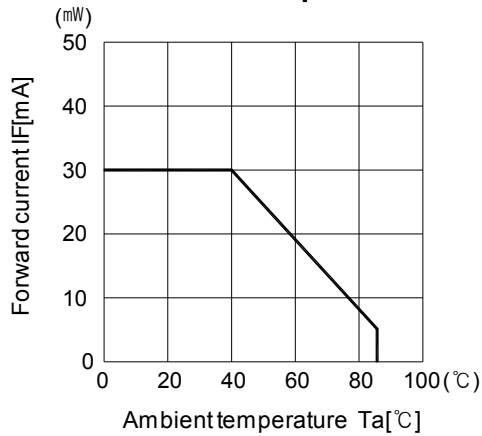
6. Electro-Optical Characteristics ( $T_A = 25\text{ °C}$ )

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 20\text{ mA}$		3.2	3.6	V
Reverse current	$I_R$	$V_R = 5\text{ V}$	-	-	50	uA
Luminous Intensity	$I_v$	$I_F = 20\text{ mA}$	1.5	2.5	-	cd
Dominant Wave Length	$\lambda_D$	$I_F = 20\text{ mA}$	520	-	530	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 20\text{ mA}$	-	15	-	nm
Half angle	$2\Delta\theta_{1/2}$	$I_F = 20\text{ mA}$	-	80	-	deg.

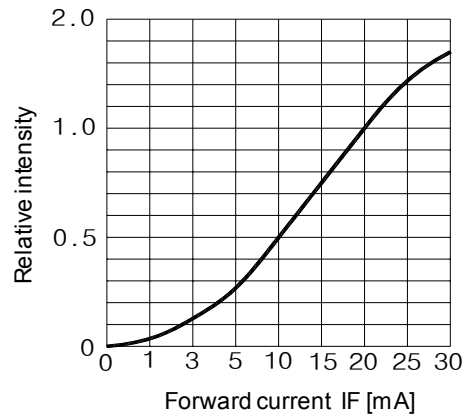
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7. Characteristic Graphs

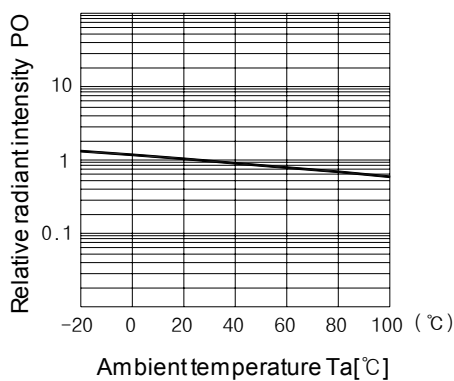
Forward current vs. Ambient temperature



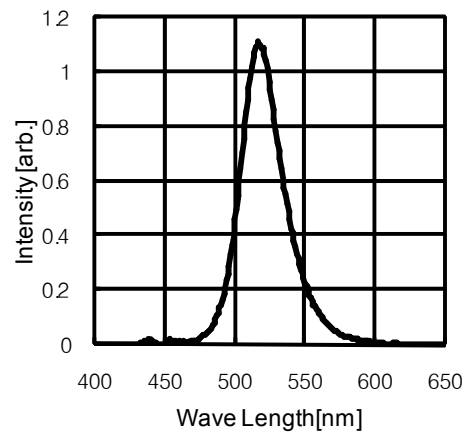
Radiant Intensity vs. Forward current



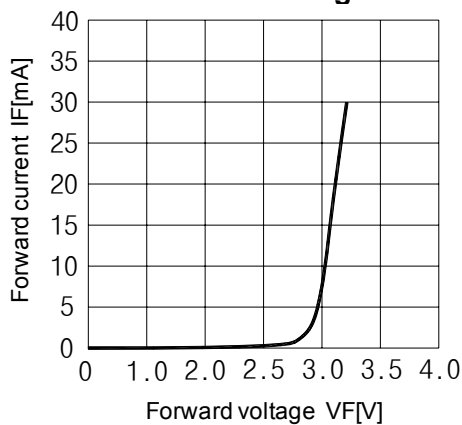
Relative radiant intensity vs. Ambient temperature



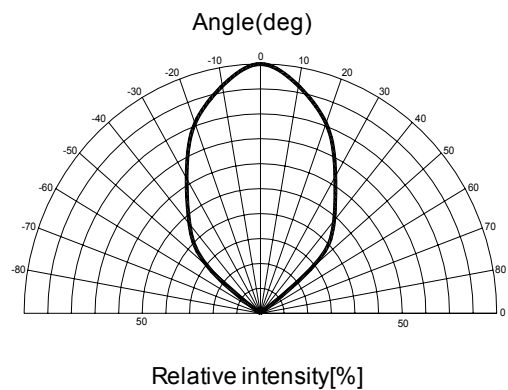
Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern



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