KB1611B46 (KLB-11B)

1. Descriptions

The KB1611B46(KLB-11B) is a very small-sized chip LED which makes right angle mounting available.

2. Features

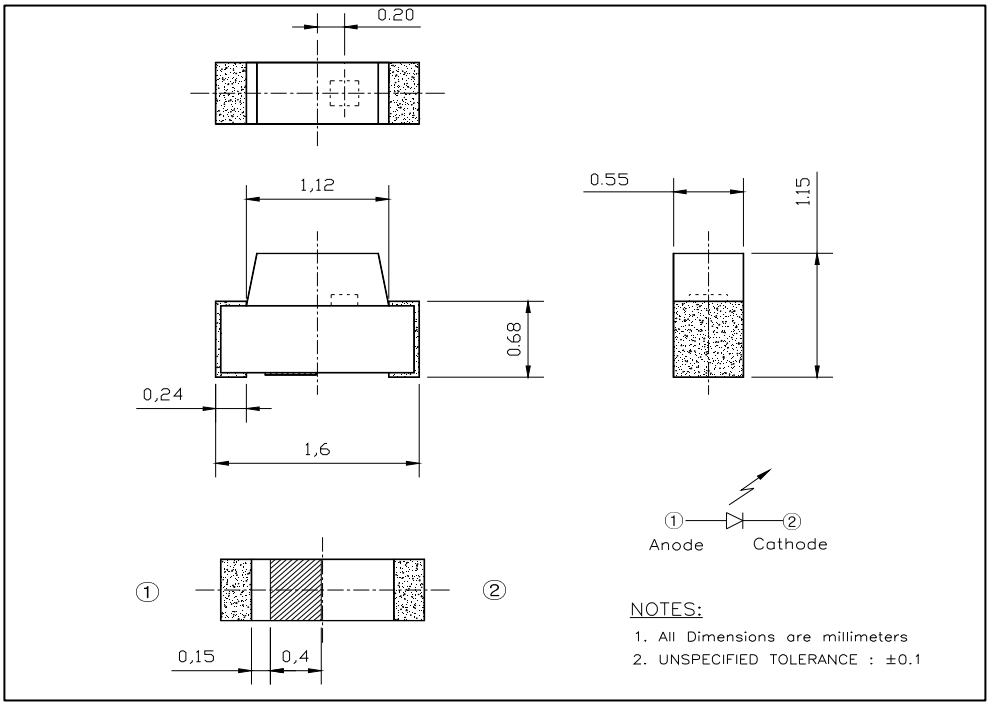
- Standard SMT Footprint Package (1.6 L × 0.55 W × 1.15 H [㎜])
- Forward Voltage(V_F) from 2.45 to 3.25V @ Forward Current(I_F)=5mA
- Operation Temperature from -20℃ to +85℃
- High Luminous Intensity(I_V) is typical 30mcd @ I_F=5mA

3. Application

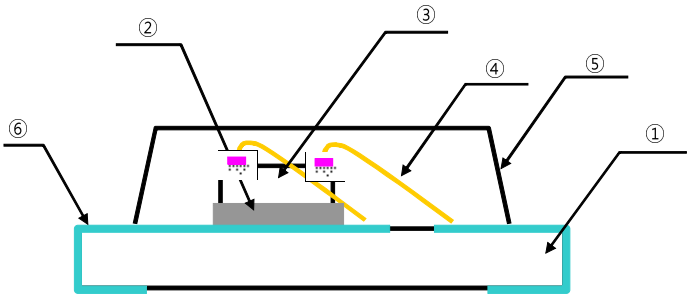
- Cellular Phone Key Pad Back Light
- Indoor Display Modules
- Indicators for Electrical Appliances

4. Outline Dimensions and Material Descriptions

◆ Outline Dimensions



◆Material Descriptions



No.	ITEM	Material
①	PCB	BT Resin
②	Paste	Ag Epoxy
③	LED Chip	InGaN/Al_2O_3
④	Wire	Au
⑤	Encapsulant	Clear Epoxy
⑥	Electrode	Au Plated Cu

5. Absolute Maximums

ITEM	Symbol	MIN	MAX	Unit	Conditions
Forward Current	I_F	-	20	mA	
Peak Forward Current*	I_{FP}	-	40	mA	
Power Dissipation	P_D	-	66	mW	
Reverse Voltage	V_R	-	5	V	
Operating Temperature	T_{opr}	-20	85	℃	
Storage Temperature	T_{str}	-30	100	℃	
Soldering Temperature	T_{sol}		260	℃	5 Sec

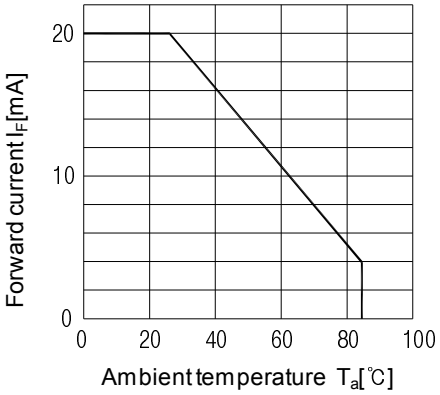
* Remark : Duty Ratio ≤ 1/10, Pulse Width ≤ 10ms

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

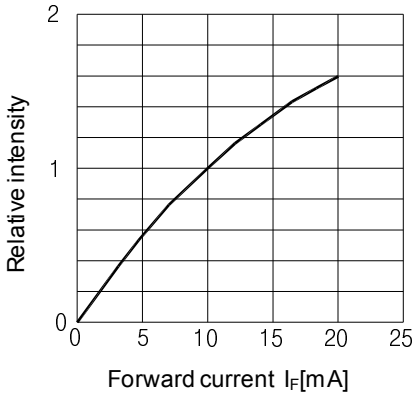
ITEM	Symbol	MIN	TYP	MAX	Unit	Conditions
Forward Voltage	V_F	2.45	-	3.25	V	I_F=5mA
Intensity	I_V	10	-	50	mcd	I_F=5mA
Dominant Wavelength	W_D	465	472	480	nm	I_F=5mA
Reverse Current	I_R	-	-	10	μA	V_R=5V
FWHM	$\Delta\lambda$	-	25	-	nm	I_F=5mA
Half angle	$\Delta\theta$	-	120	-	deg	I_F=5mA

8. Characteristic Graphs

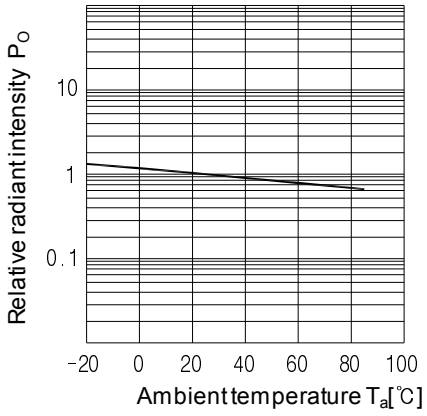
Forward current vs. Ambient temperature



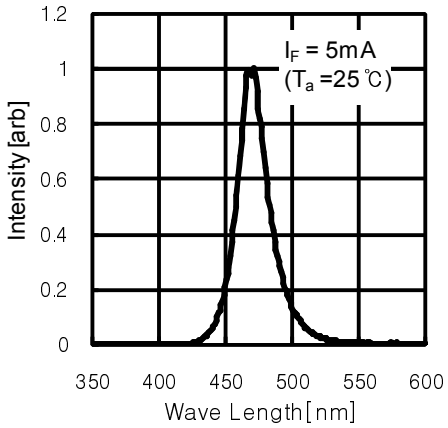
Radiant Intensity vs. Forward current



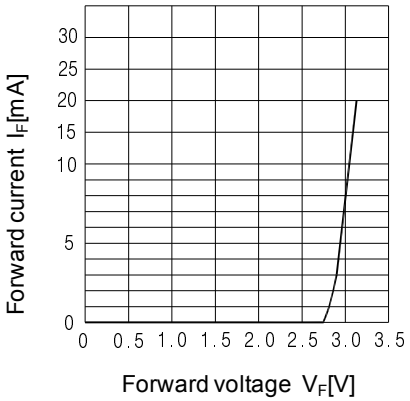
Relative radiant intensity vs. Ambient temperature



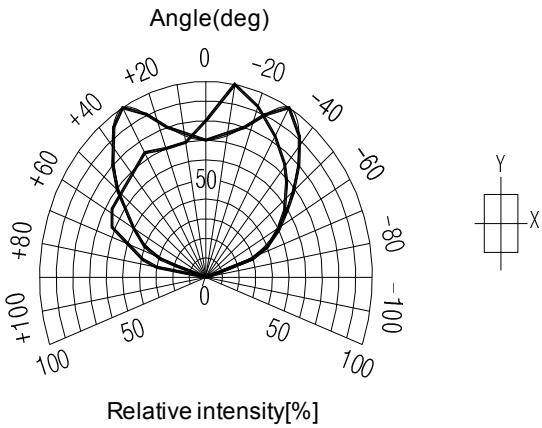
Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern



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.