

1. Descriptions

The KB1611G52 (KLB-11G) is a ultra small and thin form package green LED and it's ideal for cellular phone key pad back light, for devices of display modules and for indicators of various electrical appliances.

2. Features

- ◆ Small Footprint Surface Mount Package (1.6 L × 0.55 W × 1.15 H [mm])
- ◆ Forward Voltage(V_F) from 2.6 to 3.4V @ Forward Current(I_F)=10mA
- ◆ Operation Temperature from -30°C to +85°C
- ◆ High Electric Static Discharge(ESD) Voltage above than 1,000V for HBM
- ◆ High Luminous Intensity(I_v) is typical 250mcd @ I_F =10mA

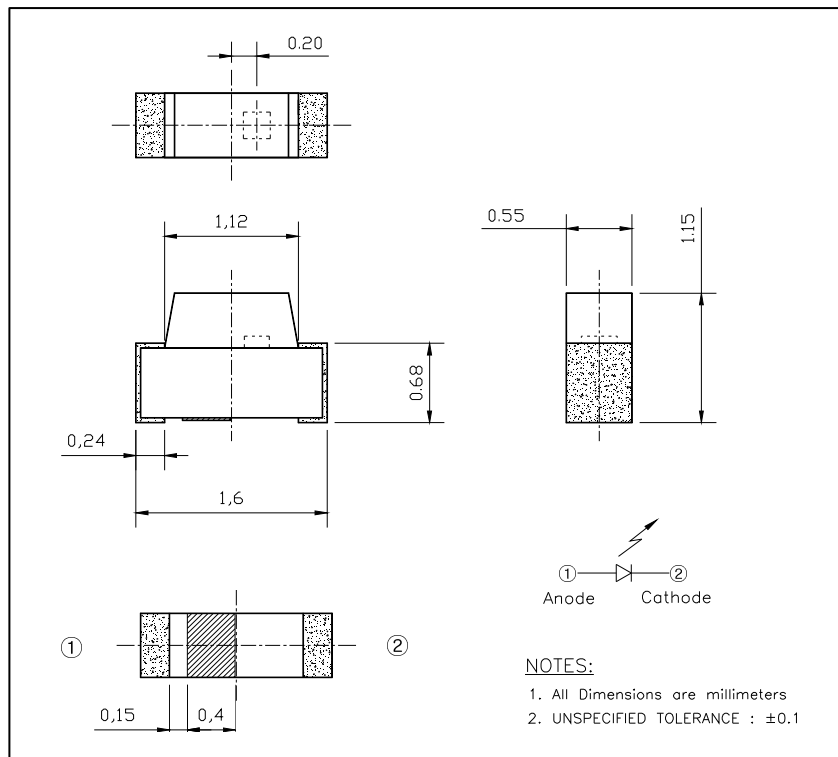
3. Application

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

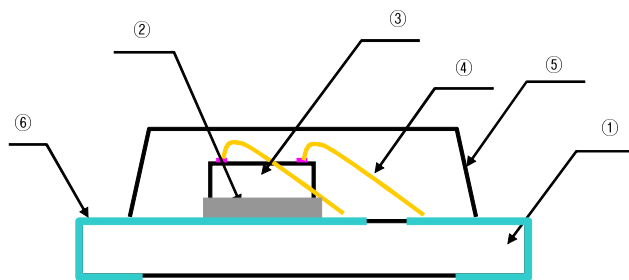
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When using this product, would you please refer to the latest specifications.

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 ₂ O ₃
④	Wire	Au(φ30μm)
⑤	Encapsulant	Clear Epoxy
⑥	Electrode	Au Plated Cu

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5. Absolute Maximums

ITEM	Symbol	MIN	MAX	Unit	Conditions
Forward Current	I_F	-	20	mA	
Peak Forward Current*	I_{FP}	-	50	mA	
Power Dissipation	P_D	-	70	mW	
Reverse Voltage	V_R	-	5	V	
Operating Temperature	T_{OP}	-30	85	°C	
Storage Temperature	T_s	-40	100	°C	
Soldering Temperature	T_{sol}		260	°C	5 Sec

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

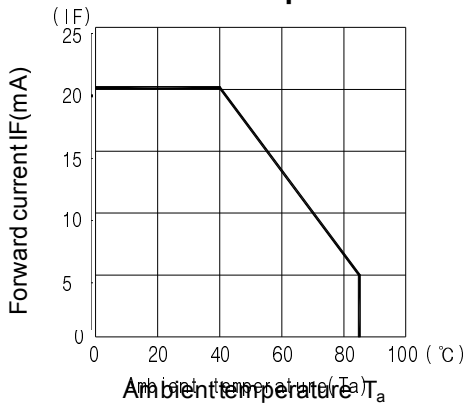
6. Electro-Optical Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

ITEM	Symbol	MIN	TYP	MAX	Unit	Conditions
Forward Voltage	V_F	2.6	3.0	3.4	V	$I_F=10$ mA
Intensity	I_V	100	250	400	mcd	$I_F=10$ mA
Dominant Wavelength	W_D	525	-	535	nm	$I_F=10$ mA
Reverse Current	I_R	-	-	10	μ A	$V_R=5$ V
FWHM	$\Delta\lambda$	-	35	-	nm	$I_F=10$ mA
Half angle	$\Delta\theta$		160		deg	$I_F=10$ mA

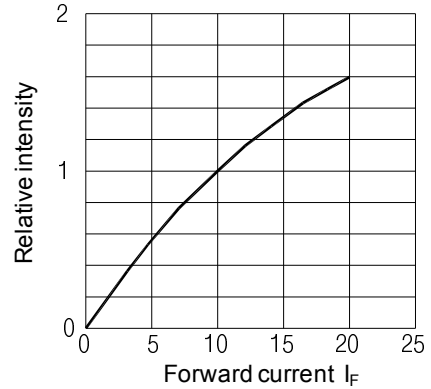
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8. Characteristic Graphs

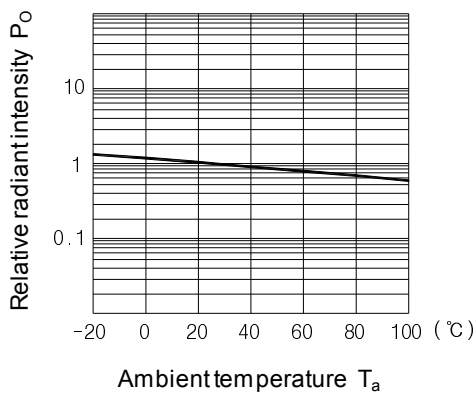
Forward current vs. Ambient temperature



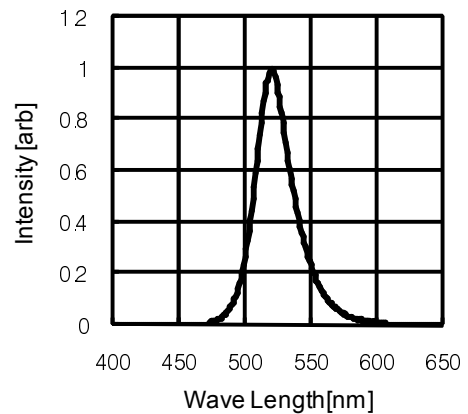
Radiant Intensity vs. Forward current



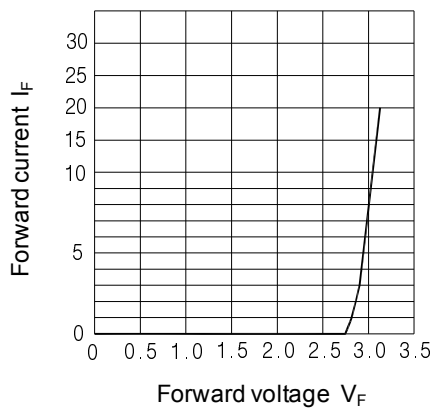
Relative radiant intensity vs. Ambient temperature



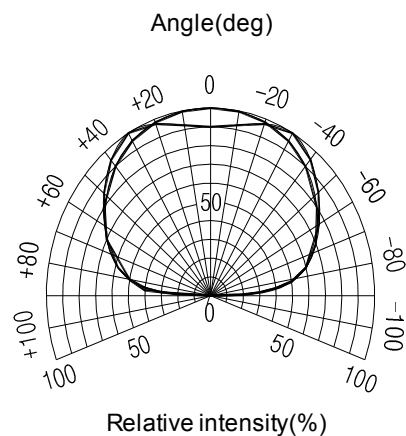
Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern



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