KB3128Y59 (KLB-320 Y-12-T)

1. Descriptions

The KB3128Y59 (KLB-320 Y-12-T) is a SMD type form package Yellow LED Technology: InGaAlP

2. Features

- Small Footprint Surface Mount Package (3.1 L × 2.8 W × 3.2 H [mm])
- Forward Voltage(VF) from 2.2 to 2.5V @ Forward Current(IF)=20mA
- Operation Temperature from -20℃ to +85℃
- Soldering methods : IR reflow soldering
- Taping : 8 ㎜ conductive black carrier tape & antistatic clear cover tape

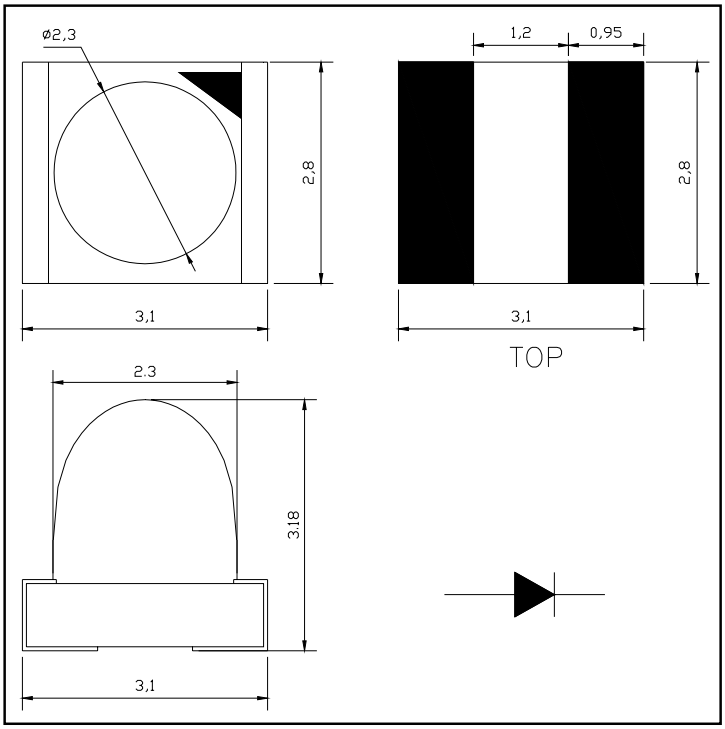
3. Application

- Automotive : audio and watch back light
- Indoor Display Modules
- Signal and symbol luminaire
- Auto Focus

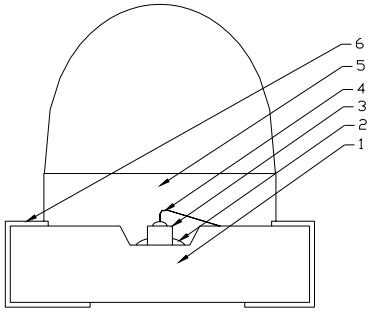
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When using this product, would you please refer to the latest specifications.

4. Outline Dimensions and Material Descriptions

◆ Outline Dimensions Unit : [mm]



◆ Material Descriptions



No.	ITEM	Material
①	Package	PCB
②	Paste	Ag Epoxy
③	LED Chip	InGaAlP
④	Wire	Au
⑤	EMC	Clear Epoxy
⑥	Lead	Cu (Ag Plate)

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5. Absolute Maximums

ITEM	Symbol	MIN	MAX	Unit	Conditions
Forward Current	I_F	-	30	mA	
Peak Forward Current*1	I_{FP}	-	100	mA	
Power Dissipation	P_D	-	80	mW	
Reverse Voltage	V_R	-	5	V	
Operating Temperature	Topr	-20	85	℃	
Storage Temperature	Tstg	-30	85	℃	
Soldering Temperature*2	Tsd		250	℃	5 Sec

*1.Duty Ratio : 1/10, @1 ㎑

*2. Soldering time : 5 Sec

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

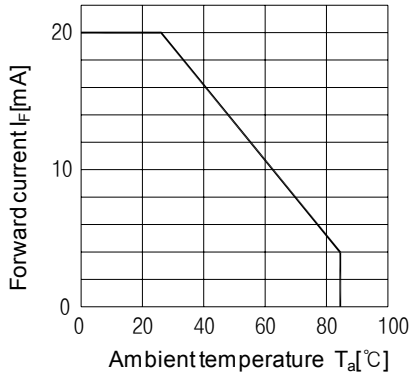
ITEM	Symbol	MIN	TYP	MAX	Unit	Conditions
Forward Voltage	V_F	-	2.2	2.5	V	I_F=20mA
Intensity	I_V	3	5	-	cd	I_F=20mA
Dominant Wavelength	W_D	-	590	-	nm	I_F=20mA
Reverse Current	I_R	-	-	100	μA	V_R=5V
FWHM	△λ	-	15	-	nm	I_F=20mA
Half angle	△Θ		±6		deg	I_F=20mA

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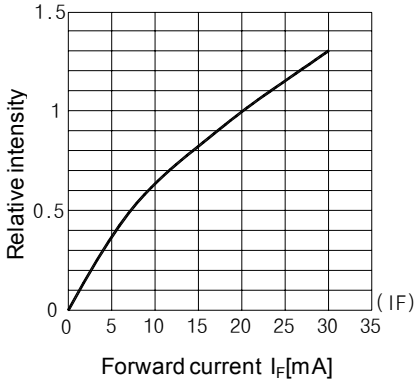
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7. Characteristic Graphs

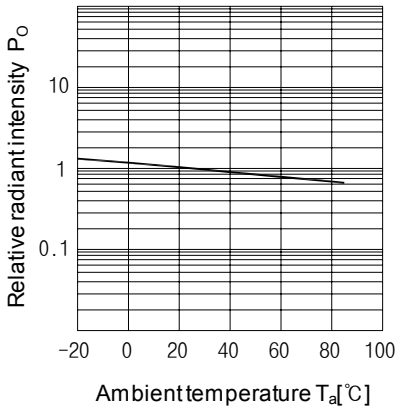
Forward current vs. Ambient temperature



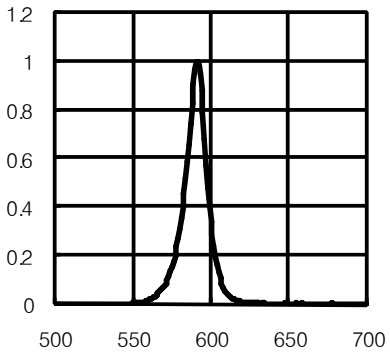
Radiant Intensity vs. Forward current



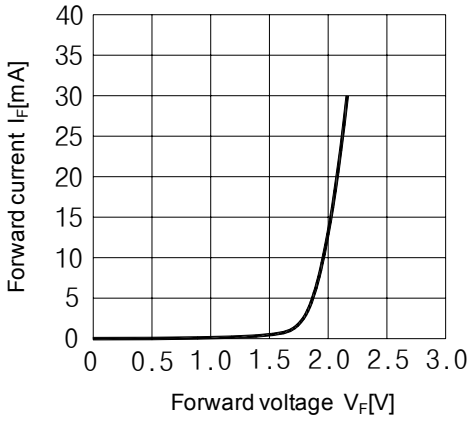
Relative radiant intensity vs. Ambient temperature



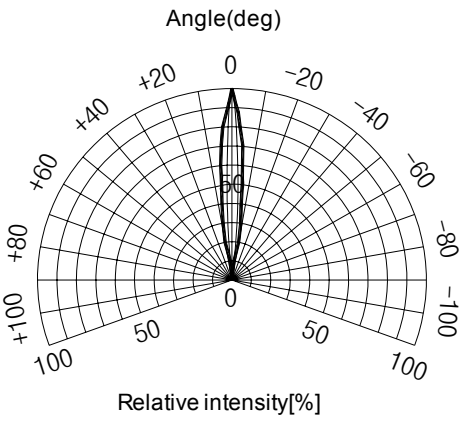
Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern



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