

KB3128R64 (KLB-320 R-12-T)

1. Descriptions

The KB3128R64 (KLB-320 R-12-T) is a SMD type form package Red LED Technology: InGaAlP

2. Features

- ◆ Small Footprint Surface Mount Package (3.1 L × 2.8 W × 3.2 H [mm])
- ◆ Forward Voltage(VF) from 2.1 to 2.5V @ Forward Current(IF)=20mA
- ◆ Operation Temperature from -20℃ to +85℃
- ◆ Soldering methods : IR reflow soldering
- ◆ Taping : 8 mm 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

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.

◆ Outline Dimensions

Technical drawing of a mechanical part showing three views: front, top, and side.

Front View: A rectangle with a width of 3.1 and a height of 2.8. It contains a circular hole with a diameter of $\varnothing 2.3$. A small triangular feature is located in the top right corner.

Top View: A rectangle with a width of 3.1 and a height of 2.18. It features a semi-circular shape on the right side with a radius of 2.3. The top view is labeled "TOP".

Side View: A rectangle with a width of 3.1 and a height of 2.18. It features a semi-circular shape on the right side with a radius of 2.3.

A north arrow is located below the top view, pointing towards the top right.

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

Rev.O date: 08-AUG-11

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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	T_{opr}	-20	85	°C	
Storage Temperature	T_{stg}	-30	85	°C	
Soldering Temperature ^{*2}	T_{sd}		250	°C	5 Sec

*1.Duty Ratio : 1/10, @1 kHz

*2. Soldering time : 5 Sec

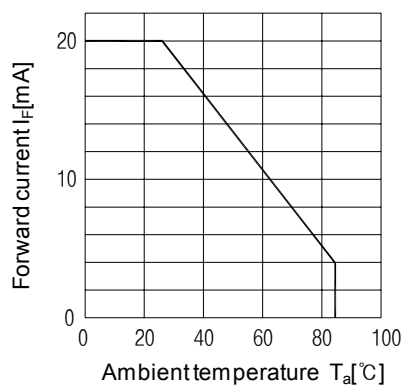
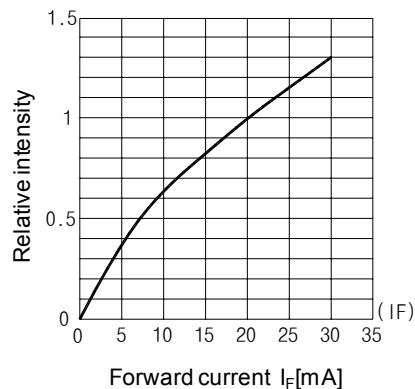
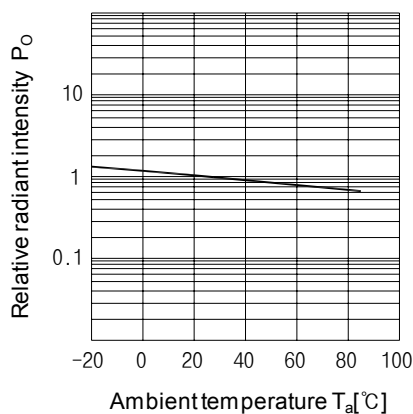
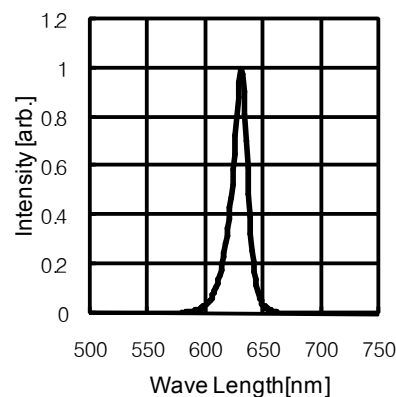
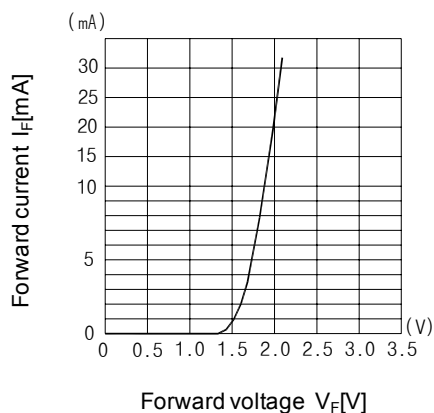
6. Electro-Optical Characteristics ($T_A = 25^\circ\text{C}$)

ITEM	Symbol	MIN	TYP	MAX	Unit	Conditions
Forward Voltage	V_F	-	2.1	2.5	V	$I_F=20\text{mA}$
Intensity	I_V	3	5	-	cd	$I_F=20\text{mA}$
Dominant Wavelength	W_D	-	640	-	nm	$I_F=20\text{mA}$
Reverse Current	I_R	-	-	100	μA	$V_R=5\text{V}$
FWHM	$\Delta\lambda$	-	15	-	nm	$I_F=20\text{mA}$
Half angle	$\Delta\theta$		± 6		deg	$I_F=20\text{mA}$

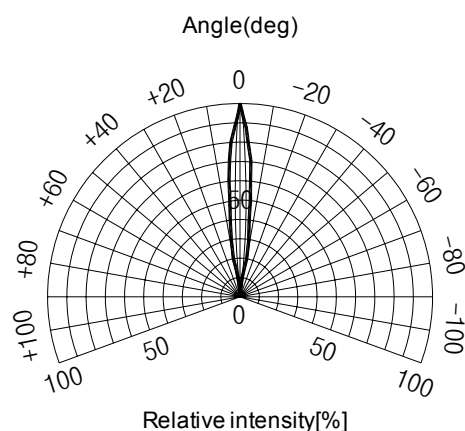
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7. Characteristic Graphs

Forward current vs.
Ambient temperatureRadiant Intensity vs.
Forward currentRelative radiant intensity vs.
Ambient temperatureRelative intensity vs.
WavelengthForward current vs.
Forward voltage

Radiant Pattern



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