

# KB4647R62 (KLB-520 R-08-T)

## 1. Descriptions

KB4647R62 (KLB-520 R-08-T) is a high bright AlInGaP red LED and has the optimized optical characteristics.

## 2. Features

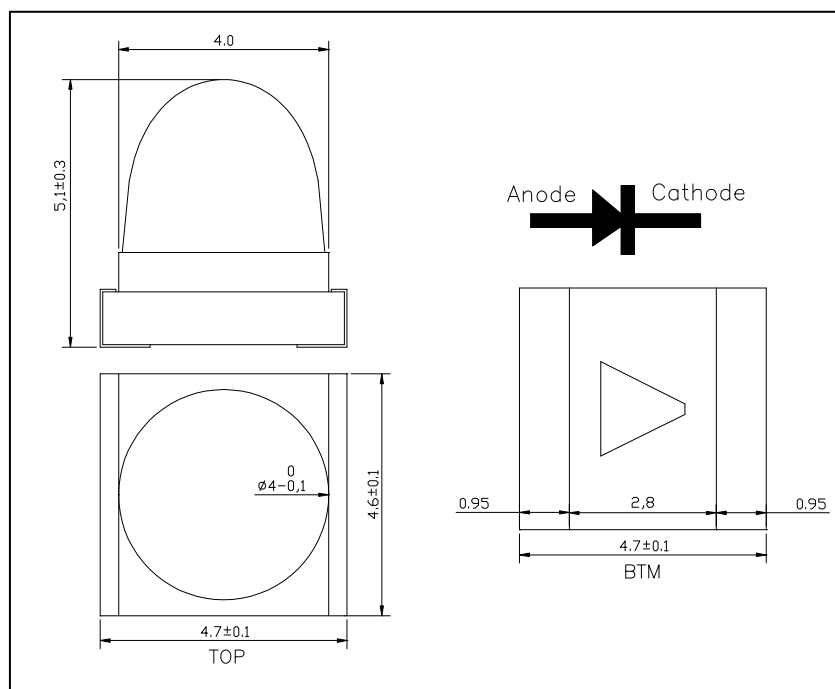
- ◆ Transparent epoxy lens
- ◆ High Optical Output
- ◆ Typical Luminous Intensity(IV)  
: 20cd for Red @ IF=20mA

## 3. Application

- ◆ Display
- ◆ Indicator
- ◆ Signage
- ◆ Auto Focus
- ◆ Amusement

## 4. Outline Dimensions and Material Descriptions

- ◆ Outline Dimensions



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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 <sup>*1</sup>	$I_{FP}$	0.3	A
Power dissipation	$P_D$	70	mW
Operating temperature	$T_{opr.}$	-30 ~ +85	°C
Storage temperature	$T_{stg.}$	-40 ~ +100	°C
Soldering Temperature <sup>*2</sup>	$T_{sol.}$	260	°C

\*1. IFP Measured under duty : 1/100 @  $t_w=10ms$

\*2. For MAX.5 seconds at the position of 2mm from the package

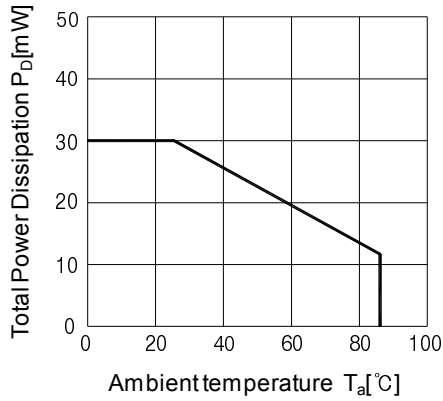
6. Electro-Optical Characteristics ( $T_A = 25^\circ C$ )

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 20\text{ mA}$		2.1	2.5	V
Reverse current	$I_R$	$V_R = 5\text{ V}$	-	-	50	uA
Luminous Intensity	$I_V$	$I_F = 20\text{ mA}$	15	25	-	cd
Doninant Wave Length	$\lambda_D$	$I_F = 20\text{ mA}$	620	-	630	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 20\text{ mA}$	-	15	-	nm
Half angle	$2\Delta\theta_{1/2}$	$I_F = 20\text{ mA}$	-	8	-	deg.

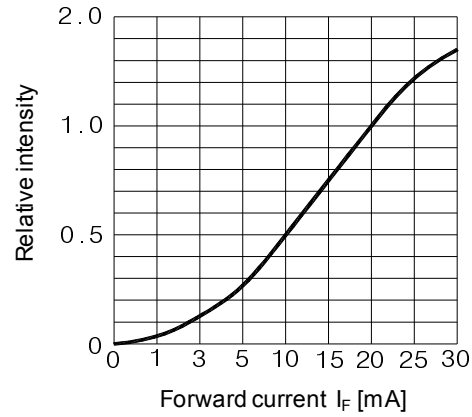
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7. Characteristic Graphs

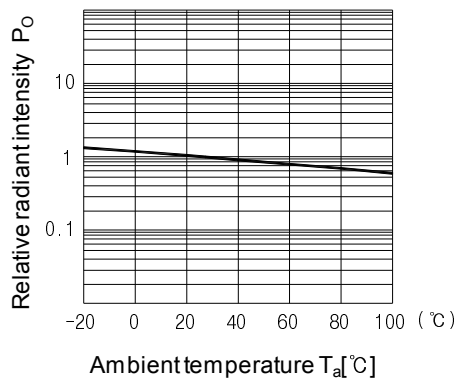
Forward current vs. Ambient temperature



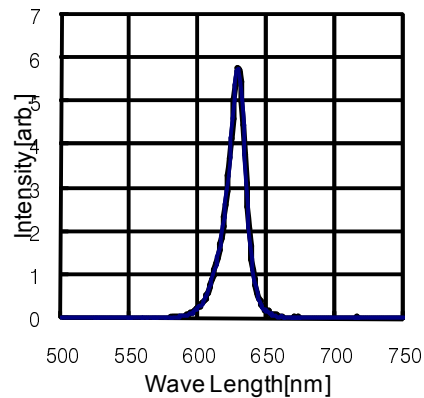
Radiant Intensity vs. Forward current



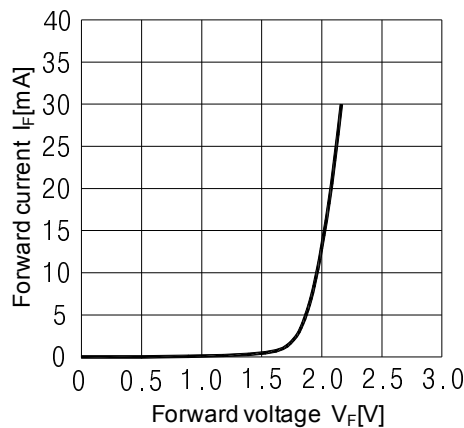
Relative radiant intensity vs. Ambient temperature



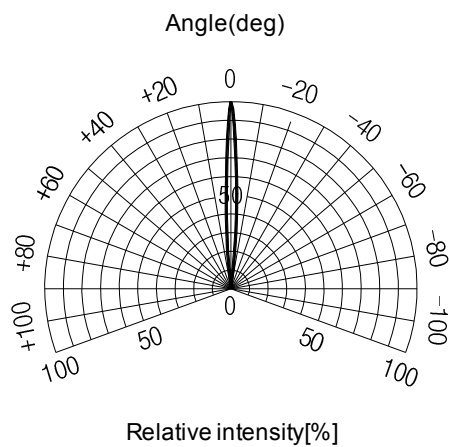
Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern



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