

KLB-320 O

KLB-320 O is a high bright InGaAlP Orange LED, and has the optimized optical characteristics.

Features

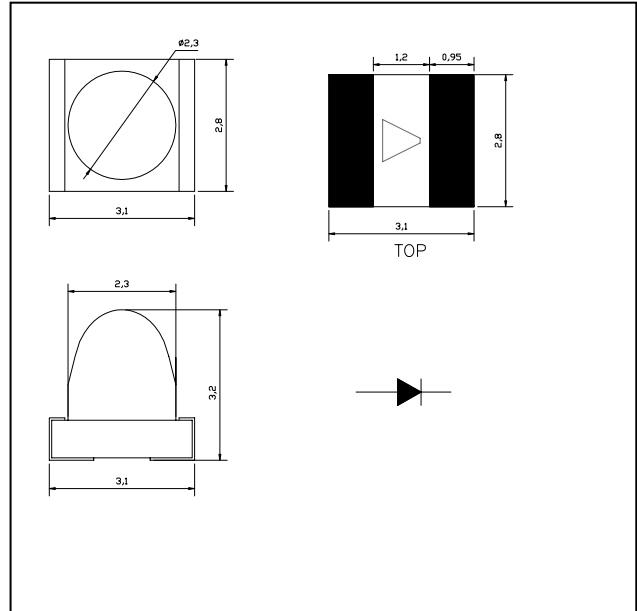
- Transparent epoxy lens
- High Optical Output

Applications

- Display
- Indicator
- Signage
- Camera
- Mobile

DIMENSIONS

Unit : [mm]



Maximum Ratings

[Ta=25°C]

Parameter	Symbol	Ratings	Unit
Reverse voltage	V_R	5	V
Forward current	I_F	30	mA
Pulse forward current *1	I_{FP}	100	A
Power dissipation	P_D	90	mW
Operating temperature	$T_{opr.}$	-30 ~ +85	°C
Storage temperature	$T_{stg.}$	-40 ~ +100	°C
Soldering Temperature *2	$T_{sol.}$	260	°C

*1. I_{FP} Measured under duty $\frac{1}{10}$ @ 1KHz

*2. Soldering time \leq 5 Sec

Keep the distance more than 3mm from soldering foundation.

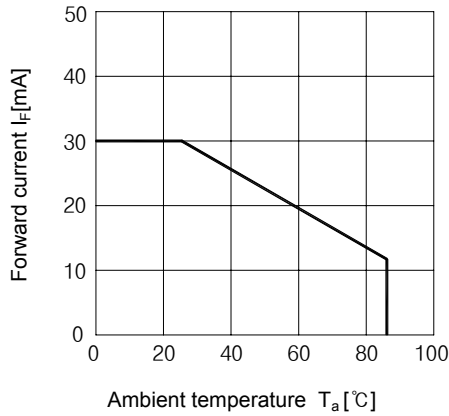
Electro-Optical Characteristics

[Ta=25°C]

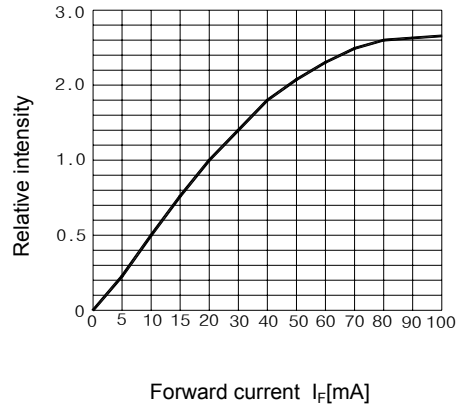
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$	-	2.5	3.2	V
Reverse current	I_R	$V_R = 5 \text{ V}$	-	-	50	μA
Luminous Intensity	I_v	$I_F = 20 \text{ mA}$	8	10	-	cd
Peak emission wavelength	λ_P	$I_F = 20 \text{ mA}$	-	610	-	nm
Doninant Wave Length	λ_d	$I_F = 20 \text{ mA}$	600	-	610	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 20 \text{ mA}$	-	15	-	nm
Half angle	$2\Delta\theta_{1/2}$	$I_F = 20 \text{ mA}$	-	10	-	deg.

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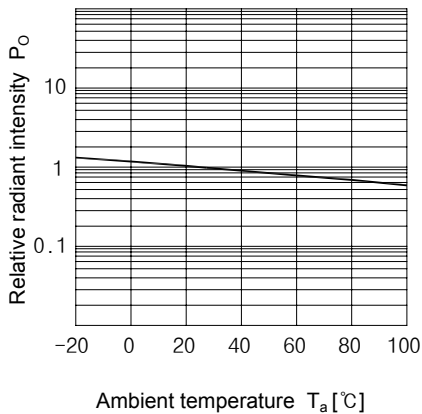
Forward current vs. Ambient temperature



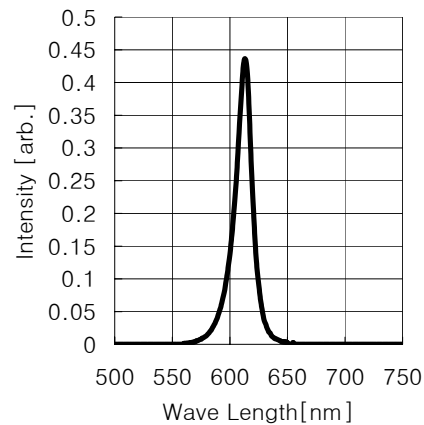
Radiant Intensity vs. Forward current



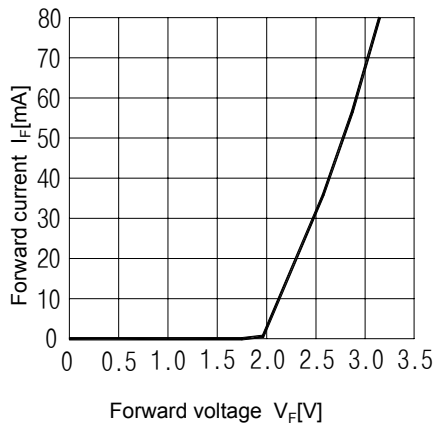
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

