

# KLL-3EB

KLL-3EB is a high bright InGaN blue LED, and has the optimized optical characteristics.

### Features

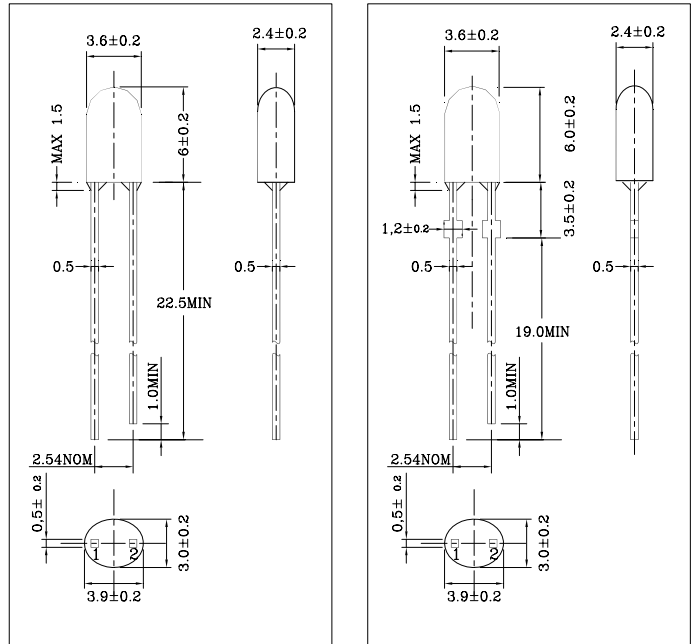
- Transparent epoxy lens
- High Optical Output

### Applications

- Display
- Indicator
- Signage

### 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 <sup>*1</sup>	$I_{FP}$	0.1	A
Power dissipation	$P_D$	105	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.  $I_{FP}$  Measured under duty  $\leq 1/10$  @ 1KHz

\*2. Soldering time  $\leq 5$  Sec

Keep the distance more than 3mm from soldering foundation.

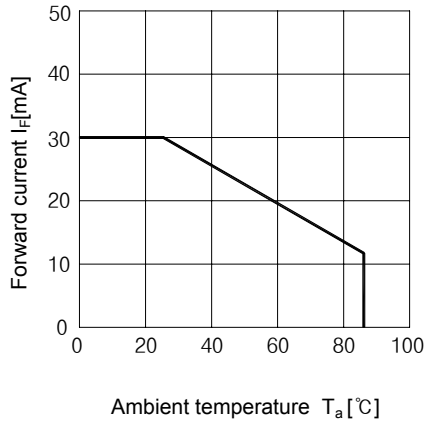
### Electro-Optical Characteristics

[ Ta=25°C ]

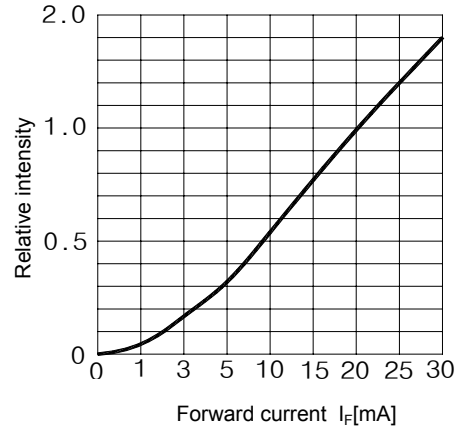
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 20$ mA	2.9	3.2	3.6	V
Reverse current	$I_R$	$V_R = 5$ V	-	-	10	uA
Luminous Intensity	$I_v$	$I_F = 20$ mA	145	300	-	mcd
Peak emission wavelength	$\lambda_P$	$I_F = 20$ mA	-	455	-	nm
Doninant Wave Length	$\lambda_d$	$I_F = 20$ mA	450	-	460	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 20$ mA	-	25	-	nm
Half angle	$2\Delta\Theta_{1/2}$	$I_F = 20$ mA	-	110/50	-	deg.

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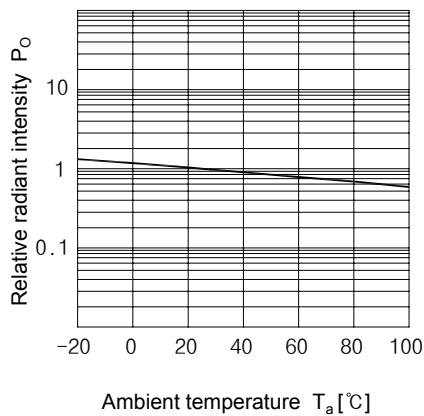
Forward current vs. Ambient temperature



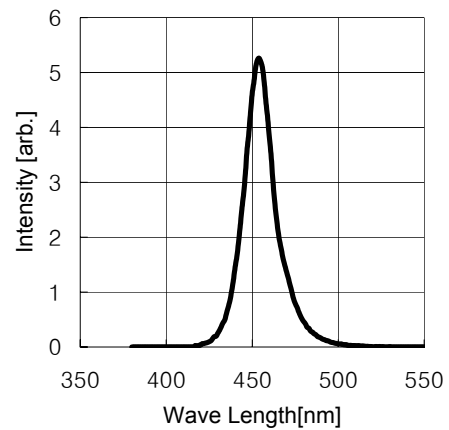
Radiant Intensity vs. Forward current



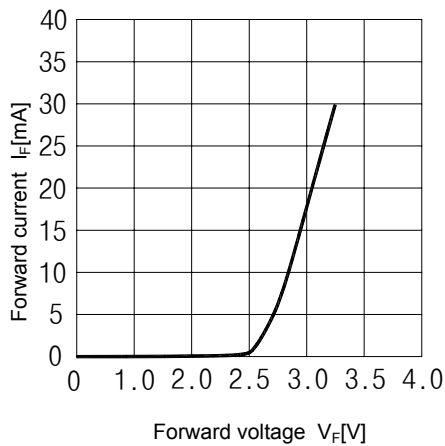
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

