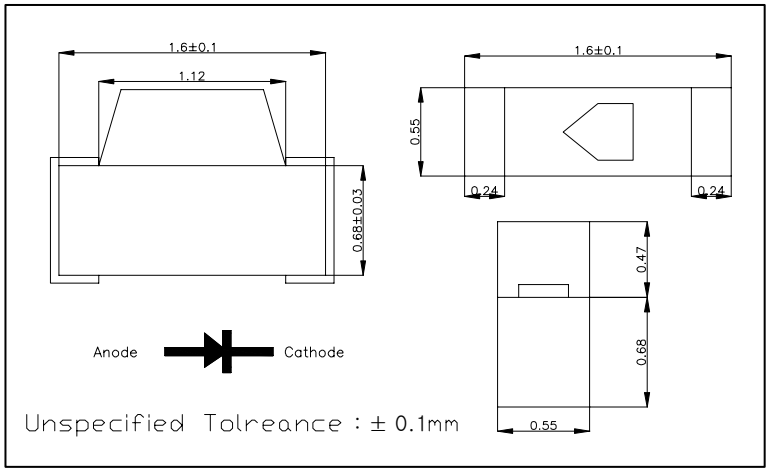
Light Emitting Diode(InGaN)

KLB-11B-X-X

KLB-11B-x-x is a high bright InGaN blue LED, and has the optimized optical characteristics.

[DIMENSIONS]



Features

- Ultra Wide Viewing Angle
- Very Thin Small SMD Package

Applications

- Display
- Indicator
- Key Pad Back Light

Maximum Ratings [Ta=25°C]

Parameter	Symbol	Ratings	Unit
Reverse Voltage	V_R	5	V
Forward current	I_F	20	mA
Pulse forward current *1	I_{FP}	70	mA
Power dissipation	P_D	70	mW
Operating temperature	$T_{opr.}$	-20 ~ +85	°C
Storage temperature	$T_{stg.}$	-30 ~ +100	°C
Soldering Temperature *2	$T_{sol.}$	260	°C

*1. I_{FP} Measured under duty ≤ 1/10 @ 1KHz

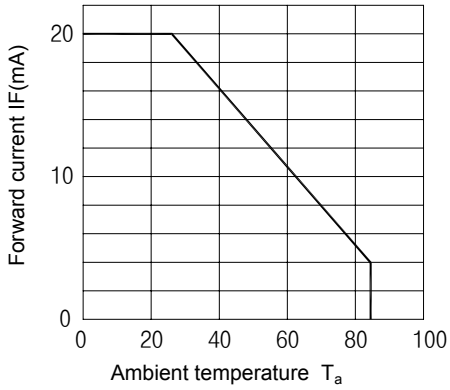
*2. Soldering time ≤ 5 Sec

Electro-Optical Characteristics [Ta=25°C]

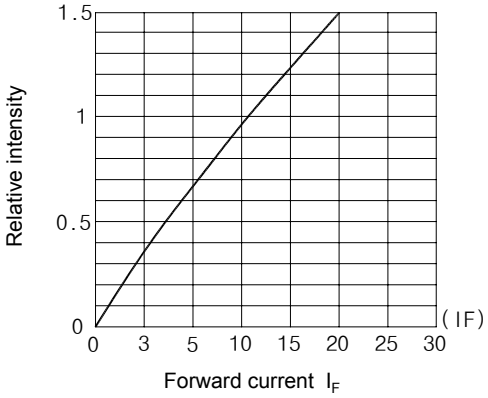
Parameter	Symbol	Conditions		Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 5 mA		2.75	3.0	3.25	V
Luminous Intensity	Iv	I_F = 5 mA		10	20	-	mcd
Doninant Wave Length	λd	I_F = 5 mA		465	470	475	nm
Spectral half bandwidth	Δλ	I_F = 5 mA		-	25	-	nm
Half angle	ΔΘ	I_F = 5 mA	X	-	140	-	deg.
			Y	-	150	-	

KLB-11B-X-X

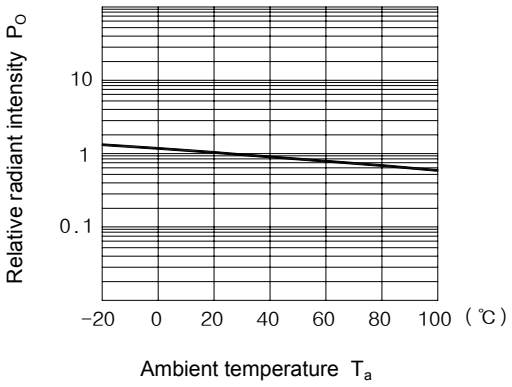
Forward current vs. Ambient temperature



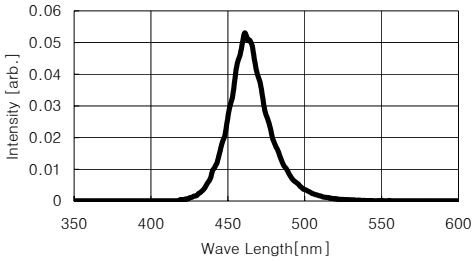
Radiant Intensity vs. Forward current



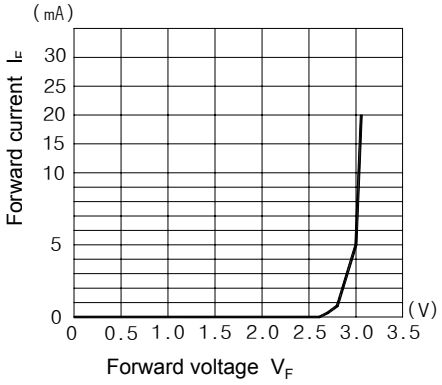
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

