

KLB-16B

KLB-16B is a high bright InGaN blue LED, and has the optimized optical characteristics.

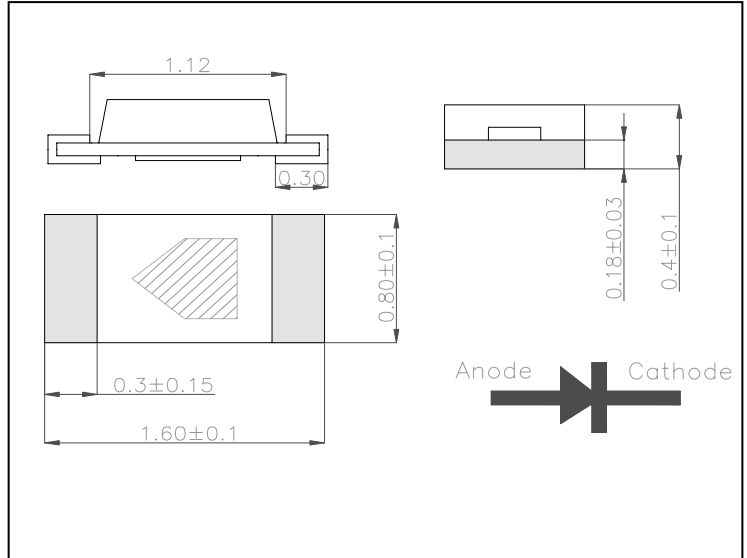
Features

- Ultra Wide Viewing Angle
- Very Thin Small SMD Package

Applications

- Display
- Indicator
- Key Pad Back Light

DIMENSIONS



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 $\leq 1/10$ @ 1KHz

*2. Soldering time ≤ 5 Sec

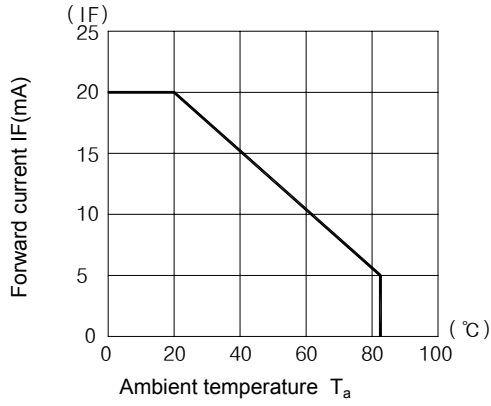
Electro-Optical Characteristics

[Ta=25°C]

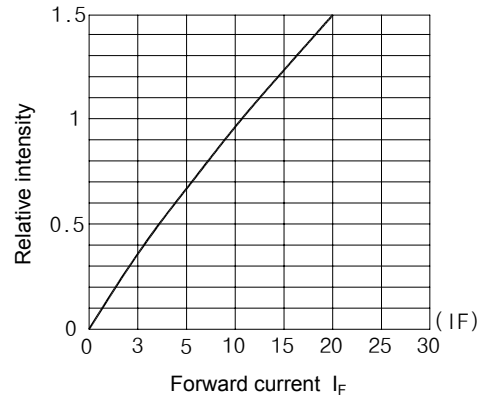
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 5$ mA	-	2.9	3.4	V
		$I_F = 10$ mA	-	3.0	3.6	
Luminous Intensity	I_v	$I_F = 5$ mA	20	35	-	mcd
		$I_F = 10$ mA	35	60	-	
Doninant Wave Length	λ_d	$I_F = 10$ mA	465	-	478	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 10$ mA	-	25	-	nm
Half angle	$\Delta\theta$	$I_F = 10$ mA	-	160	-	deg.

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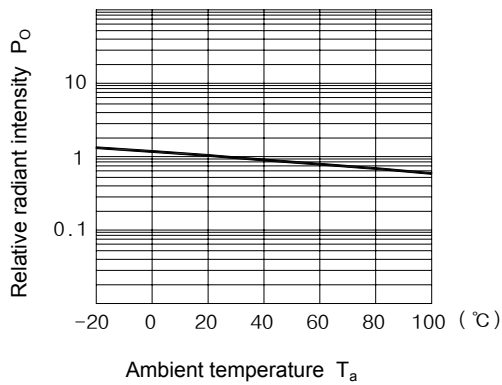
Forward current vs. Ambient temperature



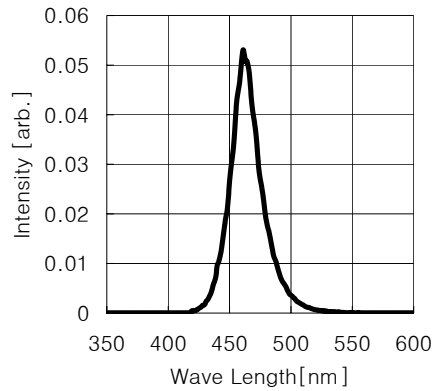
Radiant Intensity vs. Forward current



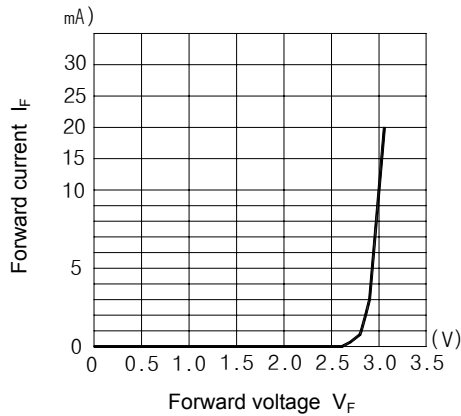
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

