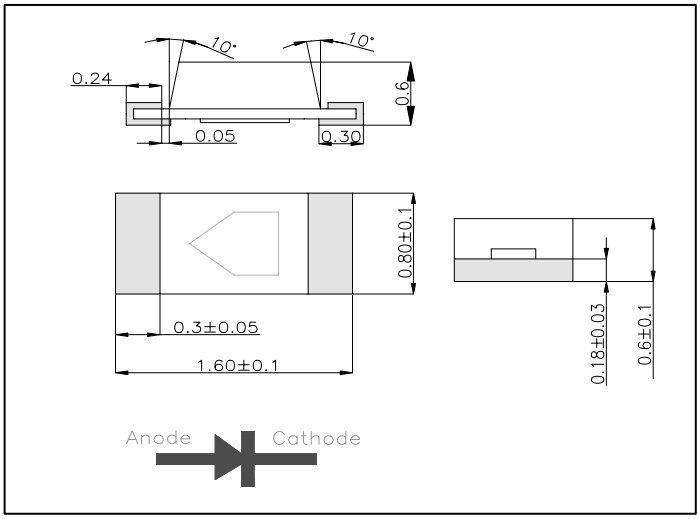
Light Emitting Diode(InGaAlP)

KLB-16AYG

KLB-16AYG is a high bright InGaAlP yellow-green 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	4	V
Forward current	I_F	20	mA
Pulse forward current *1	I_{FP}	50	mA
Power dissipation	P_D	58	mW
Operating temperature	$T_{opr.}$	-20 ~ +85	°C
Storage temperature	$T_{stg.}$	-30 ~ +100	°C
Soldering Temperature *2	$T_{sol.}$	240	°C

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

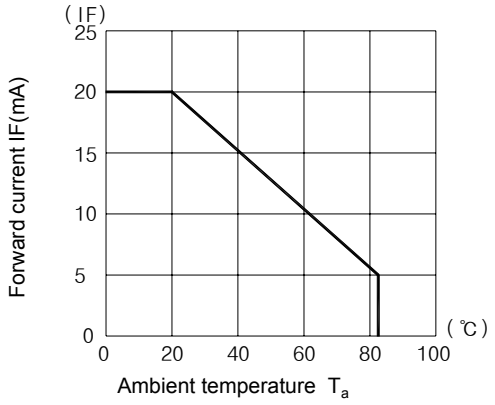
*2. Soldering time £ 10 Sec

Electro-Optical Characteristics [Ta=25°C]

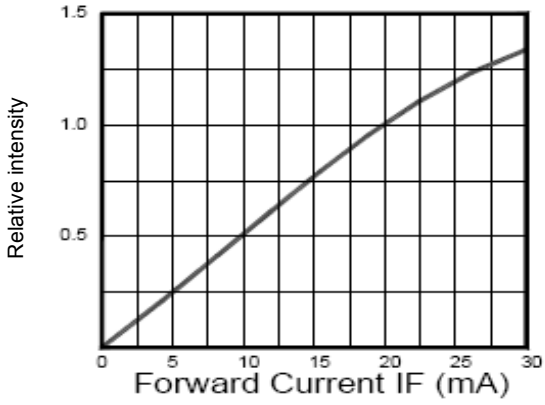
Parameter	Symbol		Conditions	Min	Typ	Max	Unit
Forward voltage	V_F		I_F = 5 mA	1.6	-	2.2	V
			I_F = 10 mA	1.8	-	2.3	V
Luminous Intensity	Iv		I_F = 5 mA	3	-	15	mcd
			I_F = 10 mA	10	-	30	
Doninant Wave Length	λ_d		I_F = 10 mA	569	-	578	nm
Spectral half bandwidth	$\Delta\lambda$		I_F = 10 mA	-	35	-	nm
Half angle	$\Delta\theta$	X	I_F = 10 mA	-	±65	-	deg.
		Y			±70		

KLB-16AYG

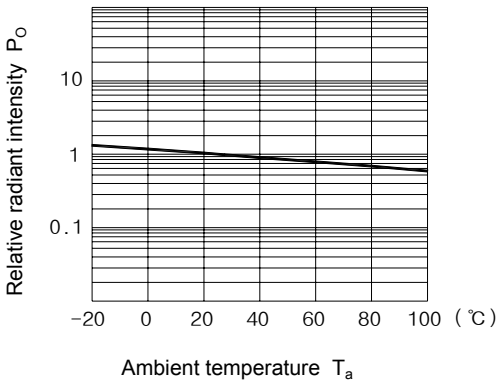
Forward current vs. Ambient temperature



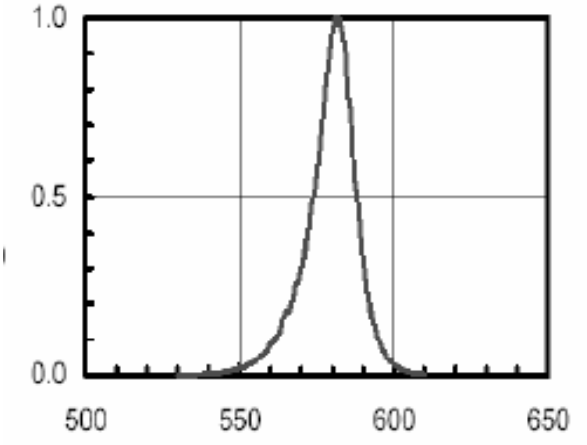
Radiant Intensity vs. Forward current



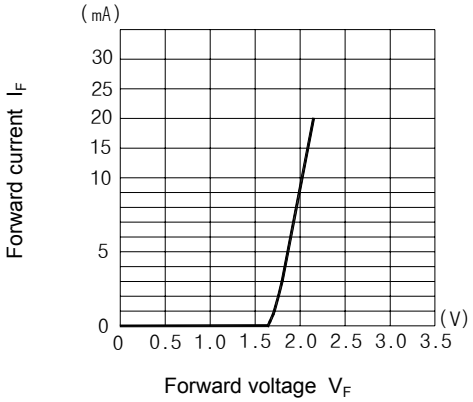
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

