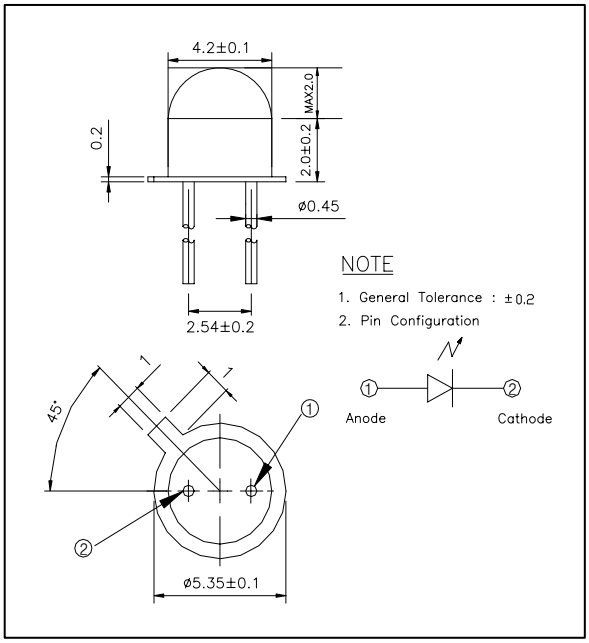
Light Emitting Diode(InGaN)

KLC-50 G

KLC-50 G is a high bright InGaN Green LED, and has the optimized optical characteristics.

DIMENSIONS Unit : [mm]



Features

- Transparent epoxy lens
- High Optical Output

Applications

- Display
- Indicator
- Signage

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}	0.5	A
Power dissipation	P_D	105	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 £ 1/10 @ 1KHz

*2. Soldering time £ 5 Sec

Keep the distance more than 3mm from soldering foundation.

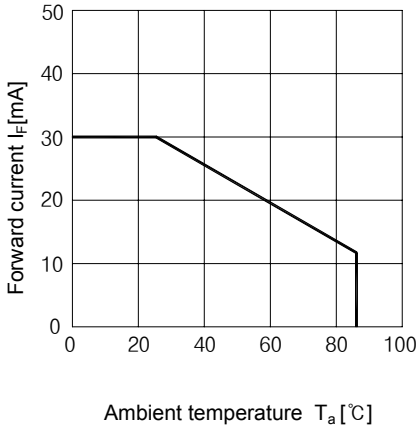
Electro-Optical Characteristics

[Ta=25°C]

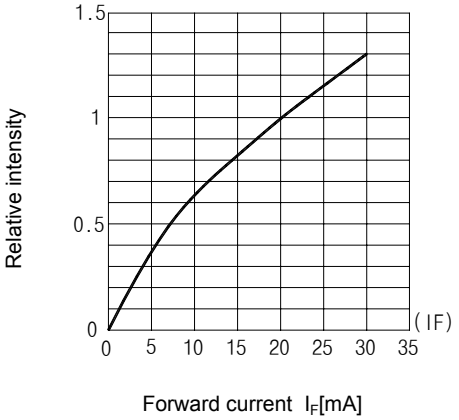
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 20 mA	-	3.2	3.5	V
Reverse current	I_R	V_R = 5 V	-	-	10	uA
Luminous Intensity	Iv	I_F = 20 mA	230	380	530	mcd
Doninant Wave Length	λ_d	I_F = 20 mA	520	-	530	nm
Spectral half bandwidth	$\Delta\lambda$	I_F = 20 mA	-	25	-	nm
Half angle	$2\Delta\Theta_{1/2}$	I_F = 20 mA	-	180	-	deg.

KLC-50 G

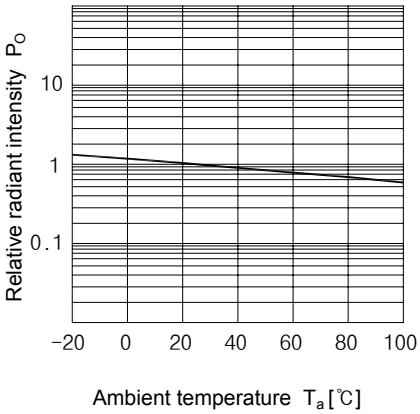
Forward current vs. Ambient temperature



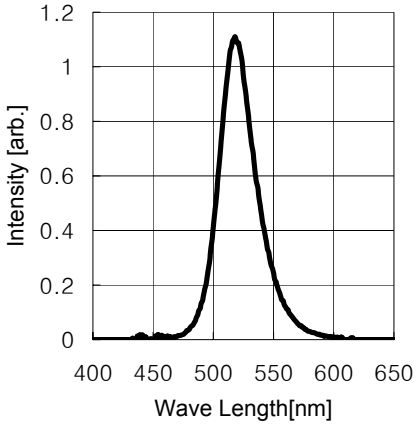
Radiant Intensity vs. Forward current



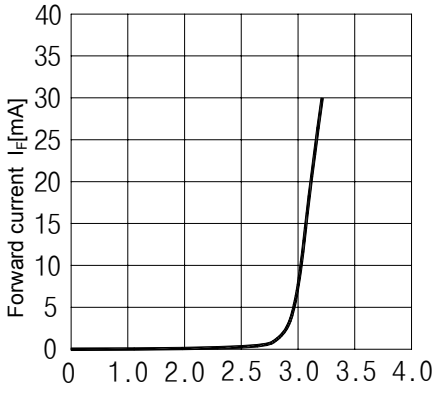
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

