

KLM-821G

参考 Reference

KLM-821G has a 1W High power GaN green LED and has the optimized optical characteristics.

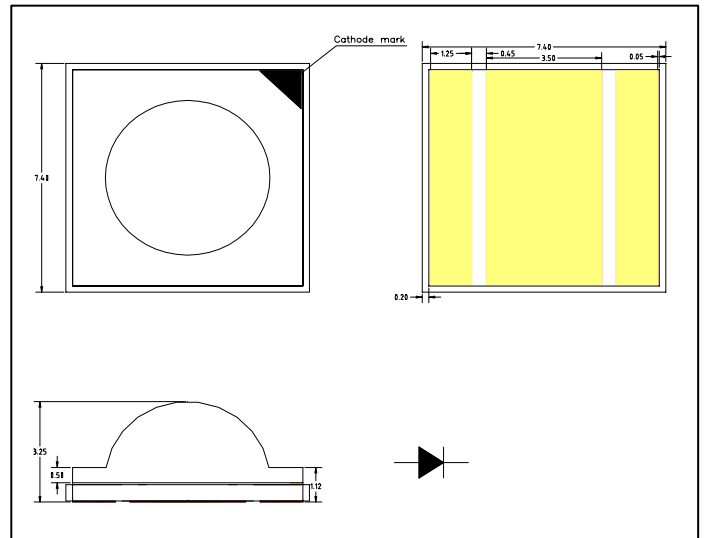
Features

- Low forward voltage operated
- More Energy Efficient than incandescent and most halogen lamps

Applications

- Portable flashlight
- Bollards, Security, Garden lighting
- LCD Back light
- General lighting

DIMENSIONS



Maximum Ratings

[Ta=25°C]

Parameter	Symbol	Ratings	Unit
Reverse Voltage	V_R	5	V
Forward current	I_F	350	mA
Pulse forward current ^{*1}	I_{FP}	1000	mA
Power dissipation	P_D	1000	mW
Operating temperature	$T_{opr.}$	-30 ~ + 110	°C
Storage temperature	$T_{stg.}$	-40 ~ +120	°C
Soldering Temperature ^{*2}	$T_{sol.}$	260	°C

*1. I_{FP} Measured under duty $\leq 1/10$ @ 1KHz

*2. Soldering time ≤ 5 Sec

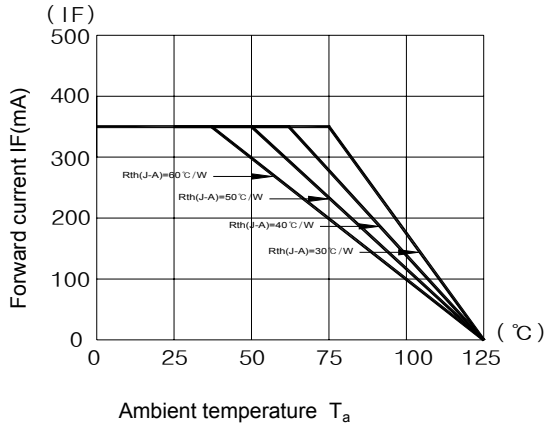
Electro-Optical Characteristics

[Ta=25°C]

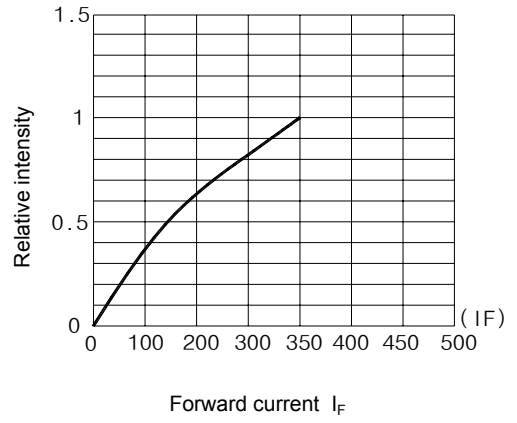
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 350$ mA	-	2.5	-	V
Flux	lm	$I_F = 350$ mA	-	60	-	lm
Doninant Wave Length	λ_d	$I_F = 350$ mA	520	-	530	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 350$ mA	-	20	-	nm
Half angle	$\Delta\theta$	$I_F = 350$ mA	-	90	-	deg.

KLM-821G

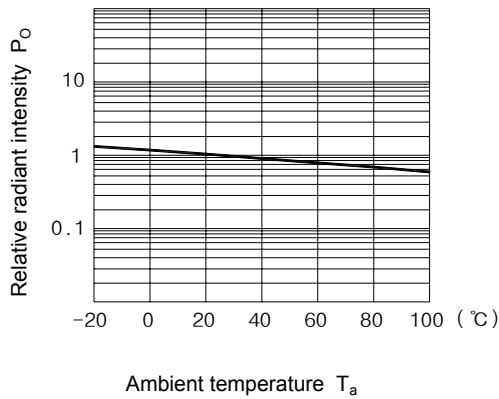
Forward current vs. Ambient temperature



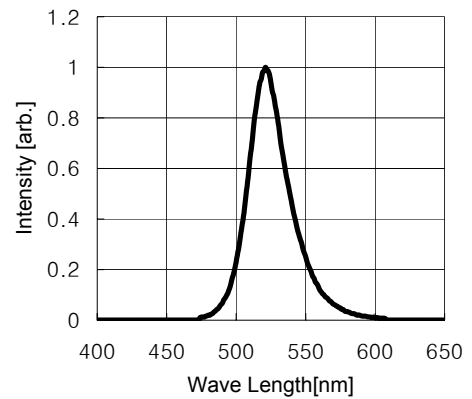
Radiant Intensity vs. Forward current



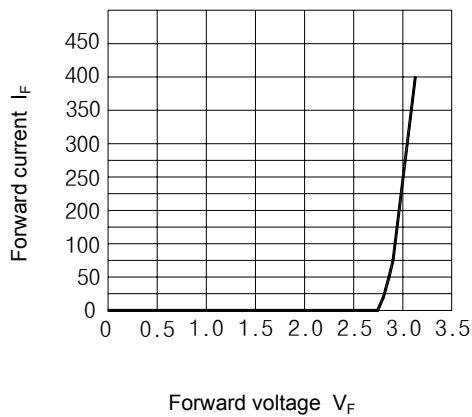
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern

