

**KLM-821G**

参考 Reference

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

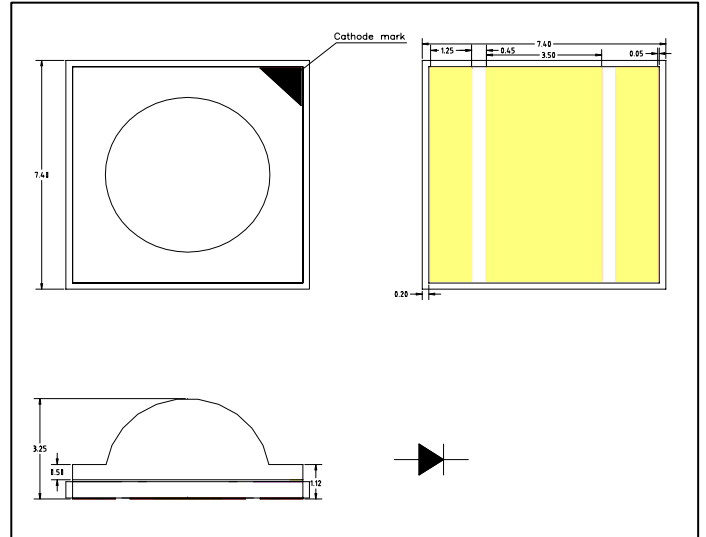
**Features**

- 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 <sup>*1</sup>	$I_{FP}$	1000	mA
Power dissipation	$P_D$	1000	mW
Operating temperature	$T_{opr.}$	-30 ~ + 110	°C
Storage temperature	$T_{stg.}$	-40 ~ +120	°C
Soldering Temperature <sup>*2</sup>	$T_{sol.}$	260	°C

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

\*2. Soldering time  $\leq 5$  Sec

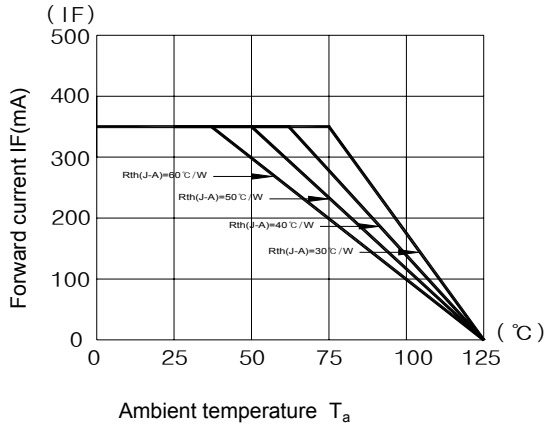
**Electro-Optical Characteristics**

[ Ta=25°C ]

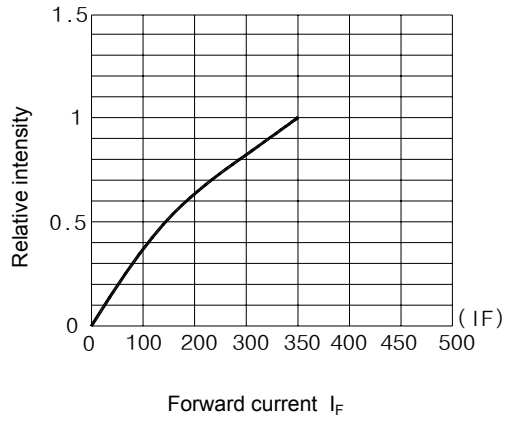
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 350$ mA	-	2.5	-	V
Flux	lm	$I_F = 350$ mA	-	60	-	lm
Doninant Wave Length	$\lambda_d$	$I_F = 350$ mA	520	-	530	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 350$ mA	-	20	-	nm
Half angle	$\Delta\Theta$	$I_F = 350$ mA	-	90	-	deg.

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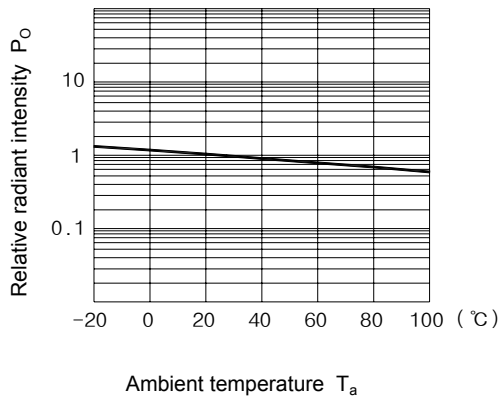
**Forward current vs. Ambient temperature**



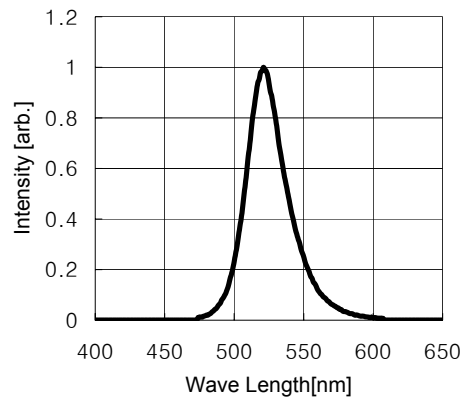
**Radiant Intensity vs. Forward current**



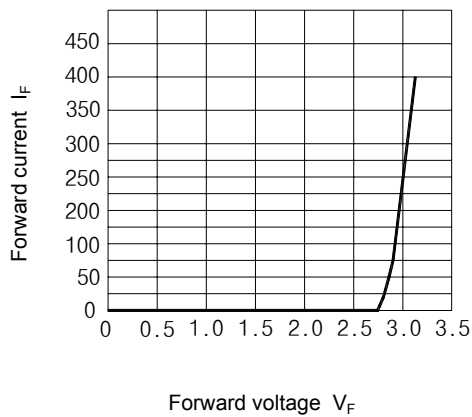
**Relative radiant intensity vs. Ambient temperature**



**Relative intensity vs. Wavelength**



**Forward current vs. Forward voltage**



**Radiant Pattern**

