

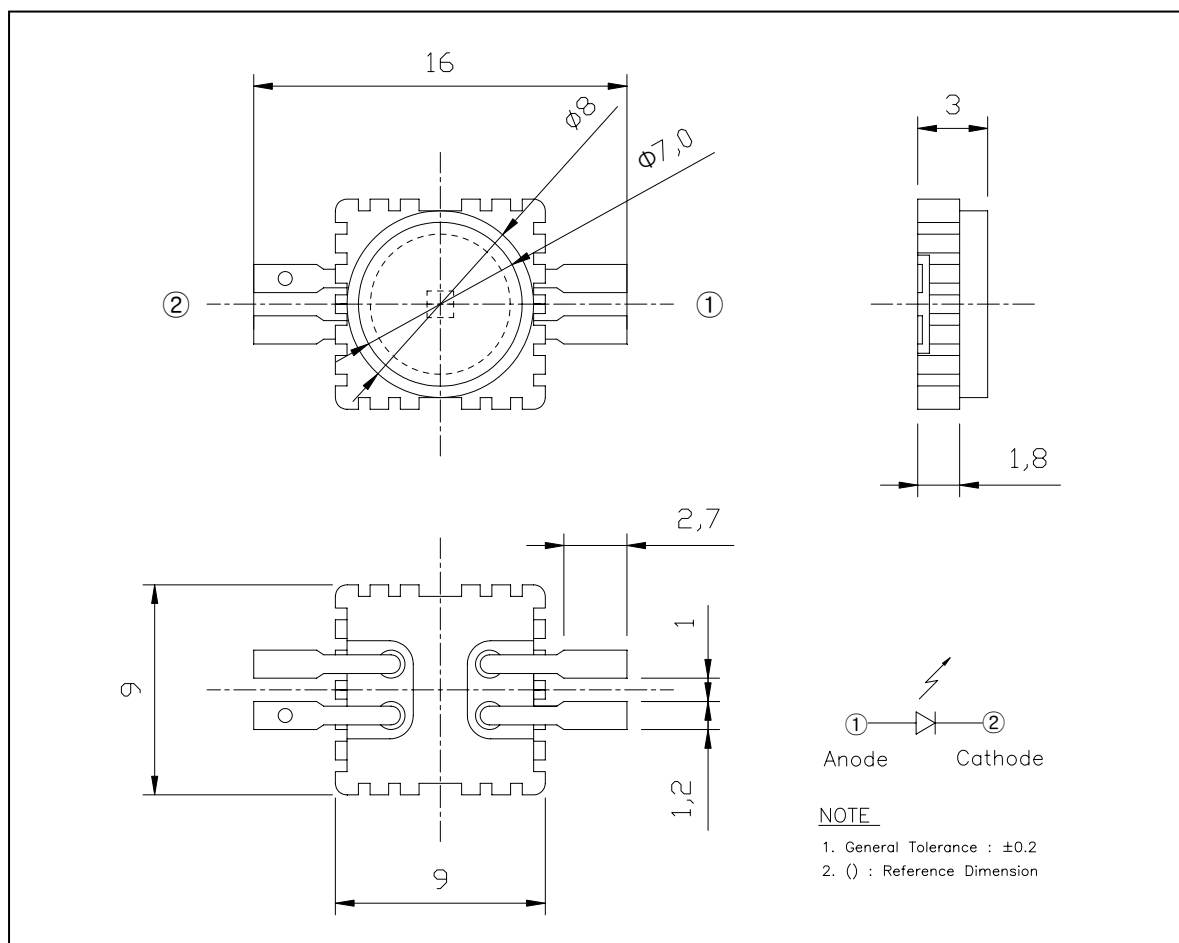
1. Features

- ◆ Surface Mount Package (9.0 L × 9.0 W × 3.0 H [mm])
- ◆ Operation Temperature from -40℃ to +85℃
- ◆ Typical Total Radiant Flux(Φ_e) : 21 lm @ IF = 350 mA.

2. Applications

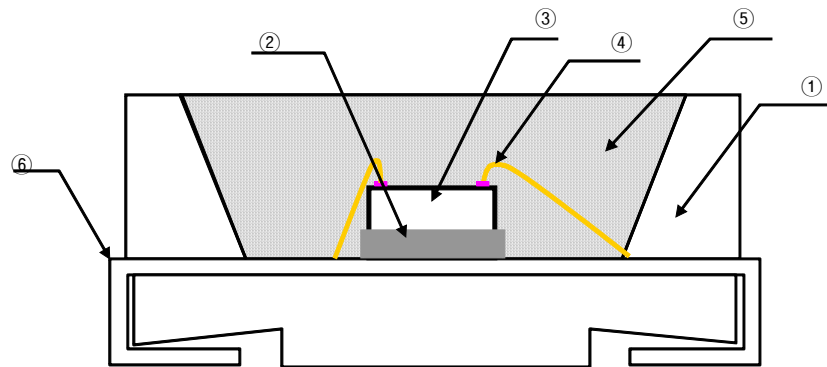
- ◆ Decorative and design lighting
- ◆ Spot lighting
- ◆ Illumination for horticulture

3. Outline Dimensions and Material Descriptions



The contents of this data sheet are subject to change without advance notice for the purpose of improvement.
When using this product, would you please refer to the latest specifications.

◆ Material Descriptions



No.	ITEM	Material
①	Stem	Al
②	Paste	Ag Epoxy
③	Infrared LED Chip	GaN
④	Wire	Au
⑤	Encapsulant	Silicone
⑥	Electrode	Ag Plated Cu

4. Absolute Maximum

(Ta=25°C)

Parameter	Symbol	Ratings	Unit
Forward current	I_F	350	mA
Pulse forward current *1	I_{FP}	700	mA
Power dissipation	P_D	1.2	W
Operating temperature	$T_{opr.}$	-40 ~ +85	°C
Storage temperature	$T_{stg.}$	-40 ~ +100	°C
Soldering Temperature *2	$T_{sol.}$	260	°C

* 1. I_{FP} Measured under duty $\leq 1/10$ @ 1KHz* 2. Soldering time ≤ 5 Sec

5. Electrical / Optical Characteristics

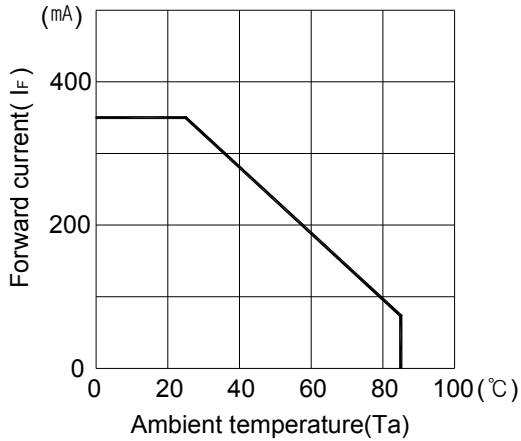
(Ta=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 350\text{mA}$	-	3.3	-	V
Reverse current	I_R	$V_R = 5\text{V}$	-	10	-	μA
Dominant wavelength	λ_D	$I_F = 350\text{mA}$	-	525	-	nm
Luminous Flux	Φ_e	$I_F = 350\text{mA}$	-	21	-	lm
Half angle	$2\Delta\theta_{1/2}$	$I_F = 350\text{mA}$	-	120	-	deg.

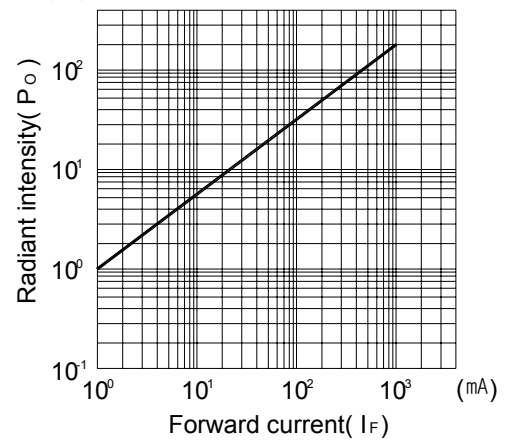
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6. Characteristic Graphs

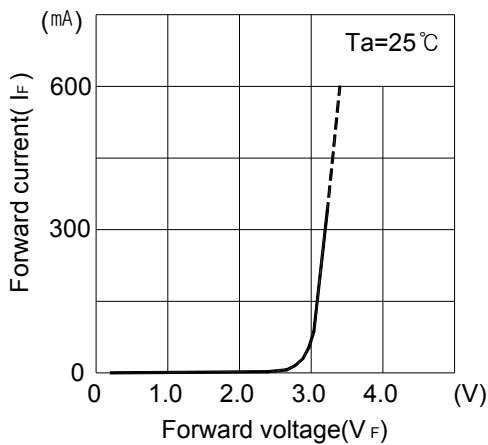
Power dissipation Vs. Ambient temperature



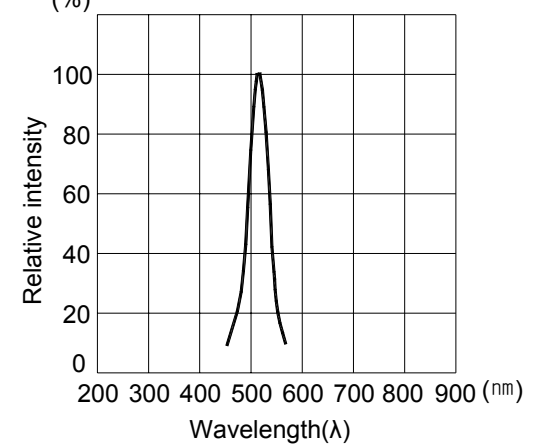
Relative intensity Vs. Forward current



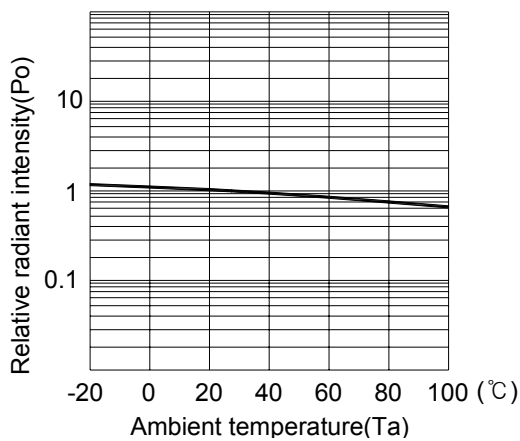
Forward current Vs. Forward voltage



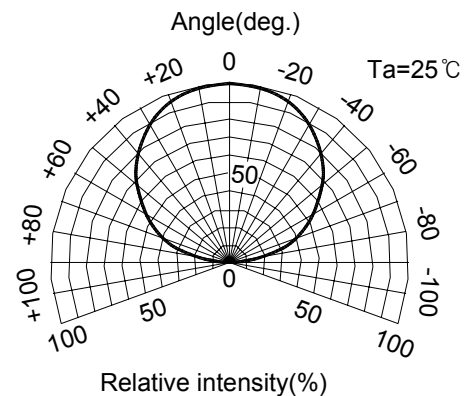
Relative intensity Vs. Wavelength



Relative luminous flux Vs. Ambient temperature



Radiant Pattern



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