KP9090R62

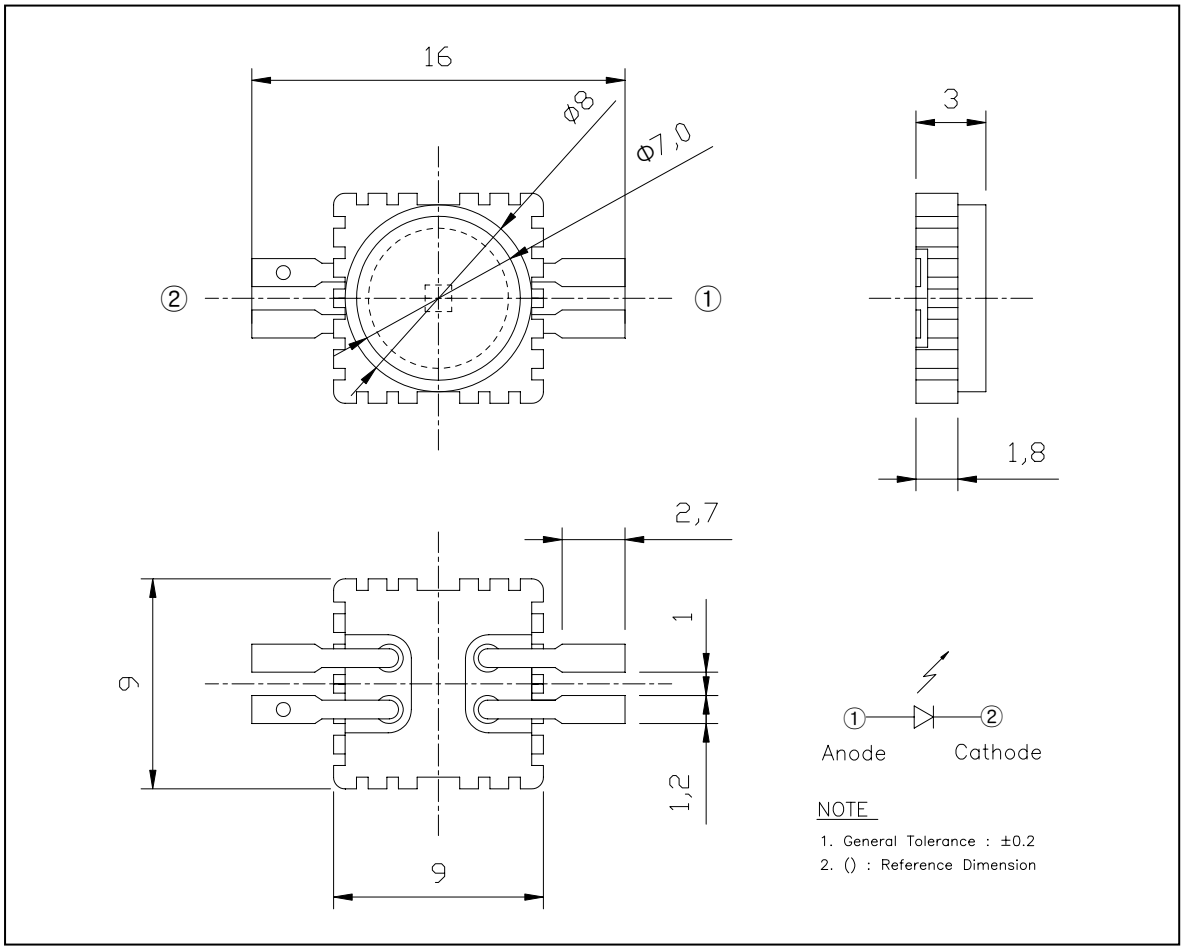
1. Features

- Surface Mount Package (9.0 L × 9.0 W × 3.0 H [mm])
- Operation Temperature from -40℃ to +85℃
- Typical Total Radiant Flux(Φe) : 35 lm @ IF = 350 mA.

2. Applications

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

3. Outline Dimensions and Material Descriptions



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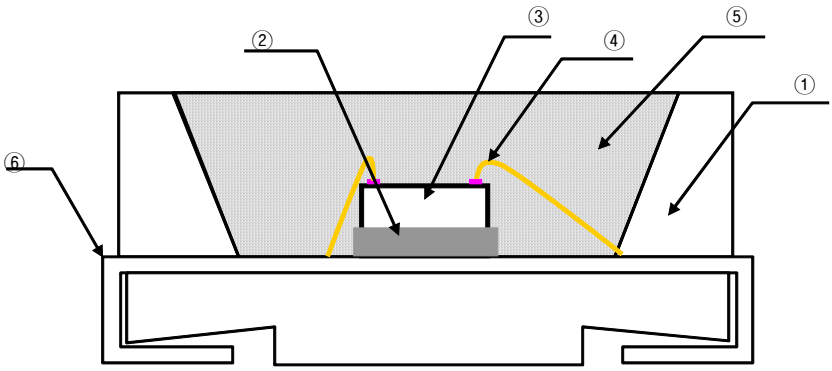
When using this product, would you please refer to the latest specifications.

◆ **Material Descriptions**



No.	ITEM	Material
①	Frame	Al
②	Paste	Ag Epoxy
③	LED Chip	GaAlAs
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	700	mW
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≤1/10 @ 1KHz

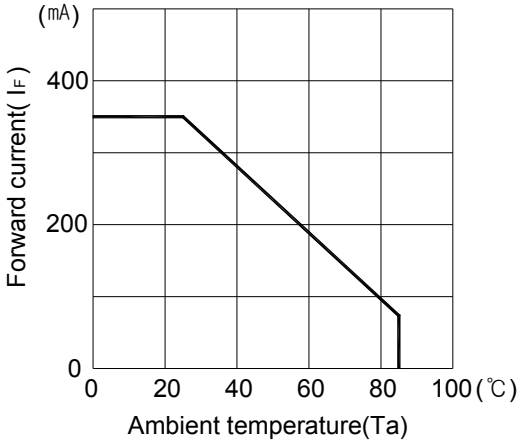
* 2. Soldering time ≤ 5 Sec

5. Electrical / Optical Characteristics (Ta=25°C)

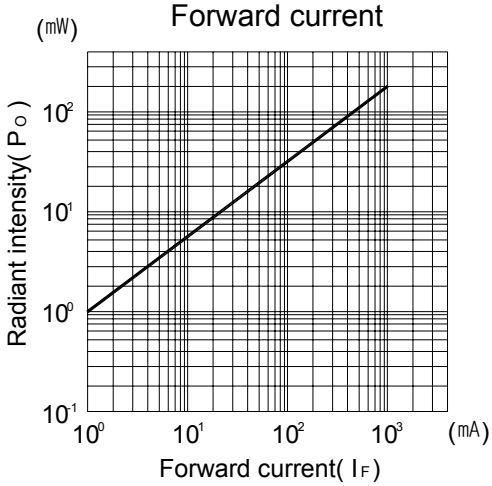
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 350mA	-	2.1	-	V
Reverse current	I_R	V_R = 5 V	-	10	-	uA
Dominant wavelength	λ_D	I_F = 350mA	-	625	-	nm
Luminous Flux	Φ_e	I_F = 350mA	-	35	-	lm
Half angle	$2\Delta\theta_{1/2}$	I_F = 350mA	-	120	-	deg.

6. Characteristic Graphs

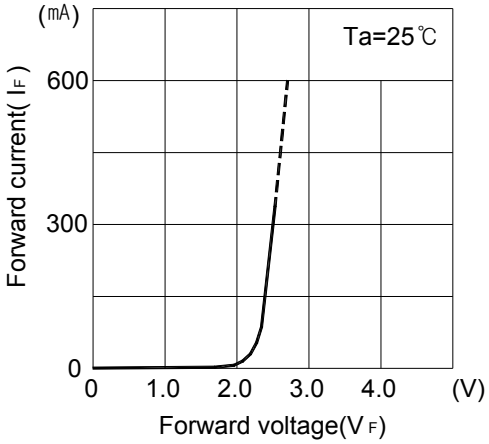
Power dissipation Vs. Ambient temperature



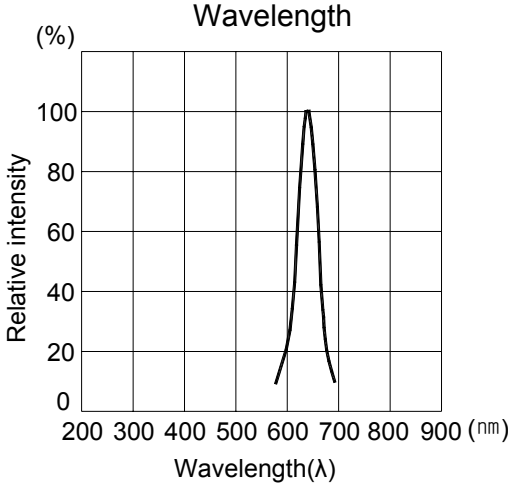
Relative intensity Vs. Forward current



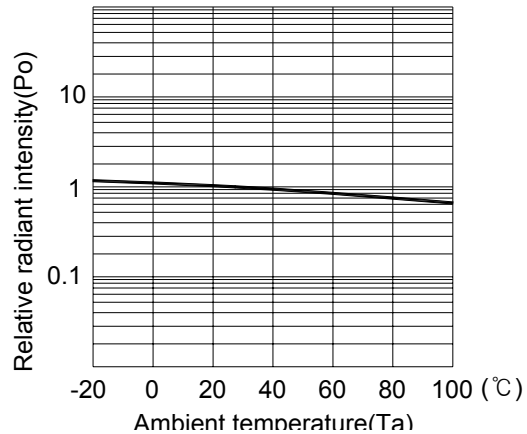
Forward current Vs. Forward voltage



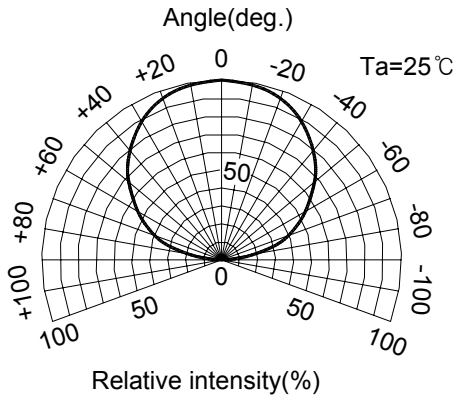
Relative intensity Vs. Wavelength



Relative luminous flux Vs. Ambient temperature



Radiant Pattern



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