

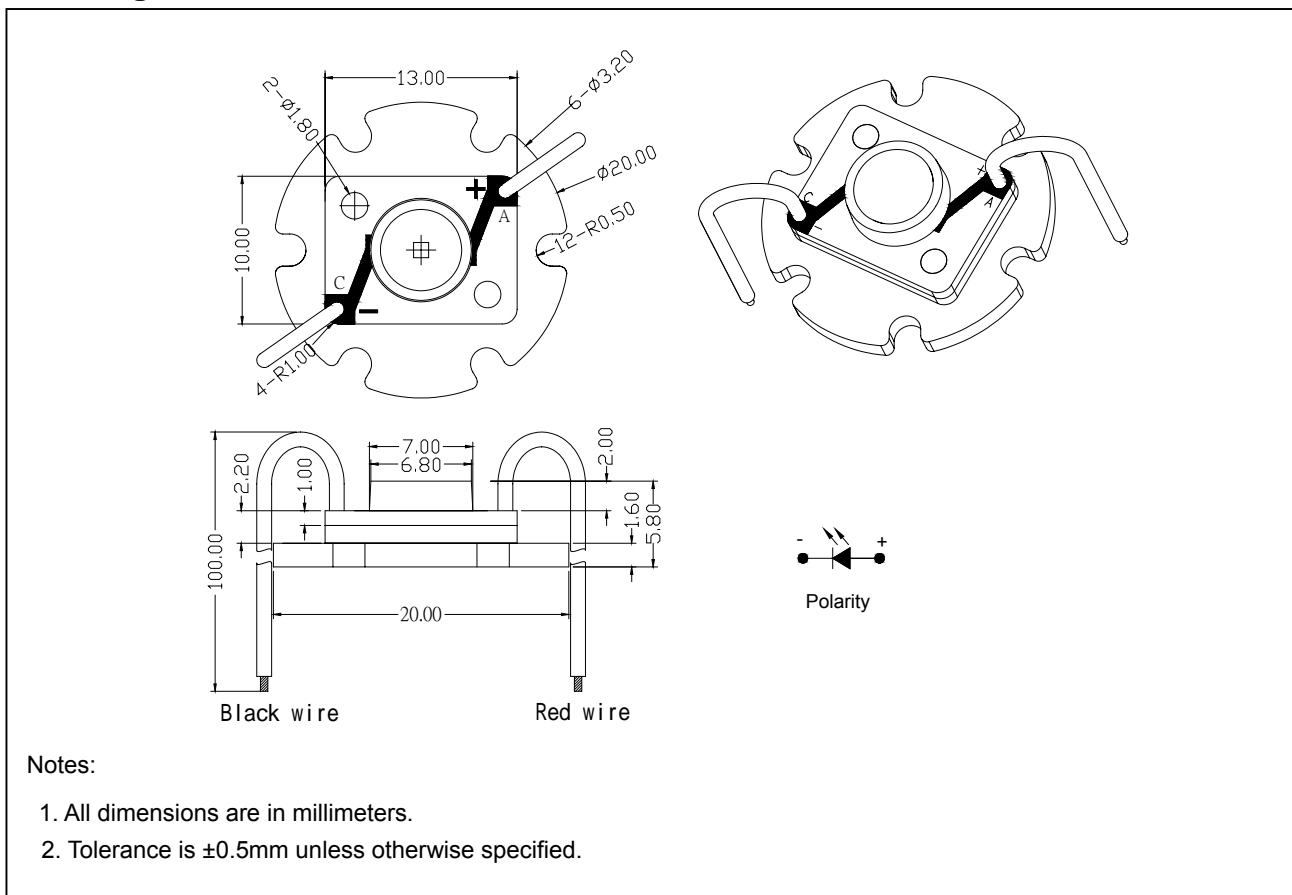
● Features:

1. Input power : 1W.
2. Chip material: AlInGaN.
3. Emitted color: White.
4. High lumen output.
5. High flux density.
6. Low power consumption.
7. Efficient heat transfer.
8. With heat sink.

● Applications:

1. Light engine.
2. Torch.
3. Desk lamp.
4. General lighting.

● Package dimensions :



● **Absolute maximum ratings(Ta=25°C)**

Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	1.0	W
DC Forward Current* ¹	I_F	350	mA
Peak Pulsed Forward Current* ²	I_{FP}	1.0	A
LED Junction Temperature	T_j	130	°C
Operating Temperature	T_{opr}	-40~120	°C
Storage Temperature	T_{stg}	-40~120	°C
Reverse Voltage	V_R	5	V
Soldering Temperature (T=5 sec)	T_{sol}	300 ± 5	°C

*¹Proper current derating must be followed to keep LED junction temperature (T_j) below the maximum.

*²Condition for I_{FP} is pulsed with 1/10 duty and 0.1msec width.

● **Electrical & Optical Characteristics LED (Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 350\text{mA}$	-	3.5	4.0	V
Total Flux	Φ_v	$I_F = 350\text{mA}$	20	30	-	lm
Color Temperature	CCT	$I_F = 350\text{mA}$	5000	6500	8000	K
Color Rendering Index	CRI	$I_F = 350\text{mA}$	80	-	-	
Reverse Current	I_R	$V_R=5\text{V}$	-	-	50	μA
Thermal Resistance, Junction To Case	R_{j-c}	$T_J = 25^\circ\text{C}$, $I_F = 150\text{mA}$	-	15	-	°C/W
Viewing Angle	$2\theta_{1/2}$	$I_F = 350\text{mA}$	-	120	-	degree
Chromaticity Coordinates	x	$I_F = 350\text{mA}$	-	0.32	-	
	y	$I_F = 350\text{mA}$	-	0.31	-	

● Typical electro-optical characteristics curves

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

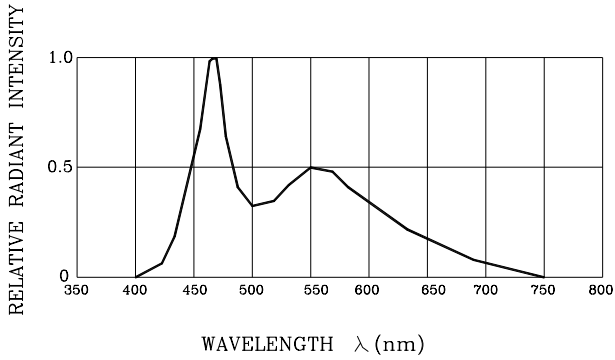


Fig.2 FORWARD CURRENT DERATING CURVE

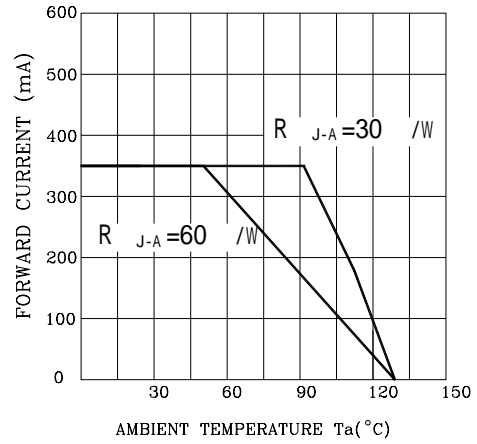


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

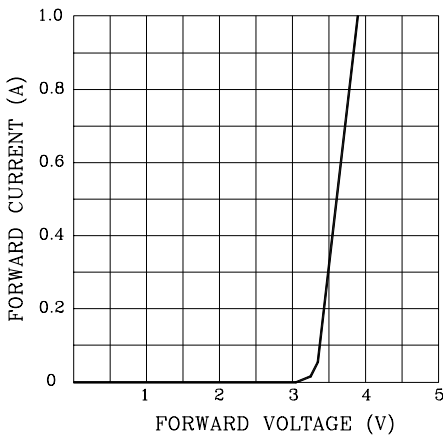


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

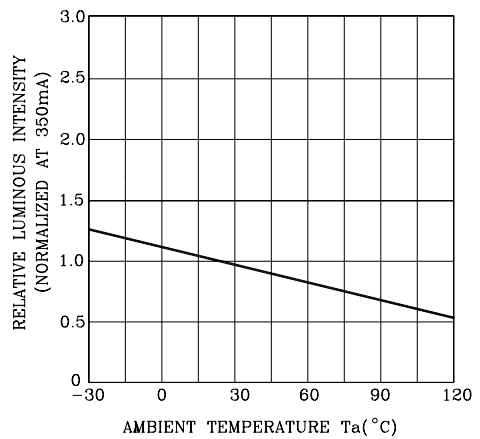


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

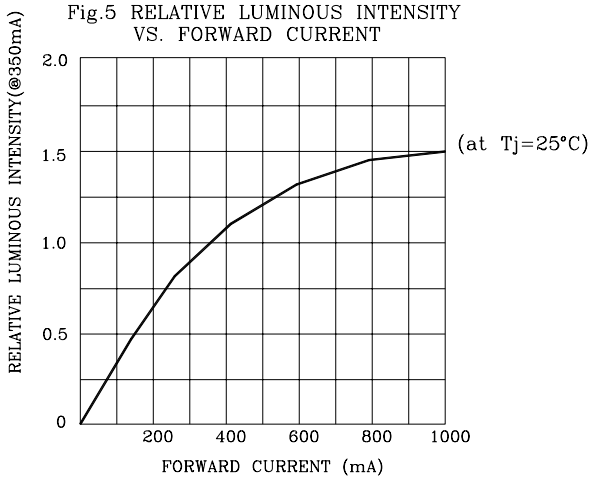
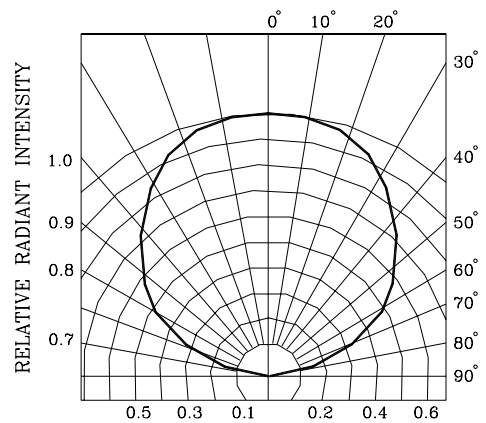
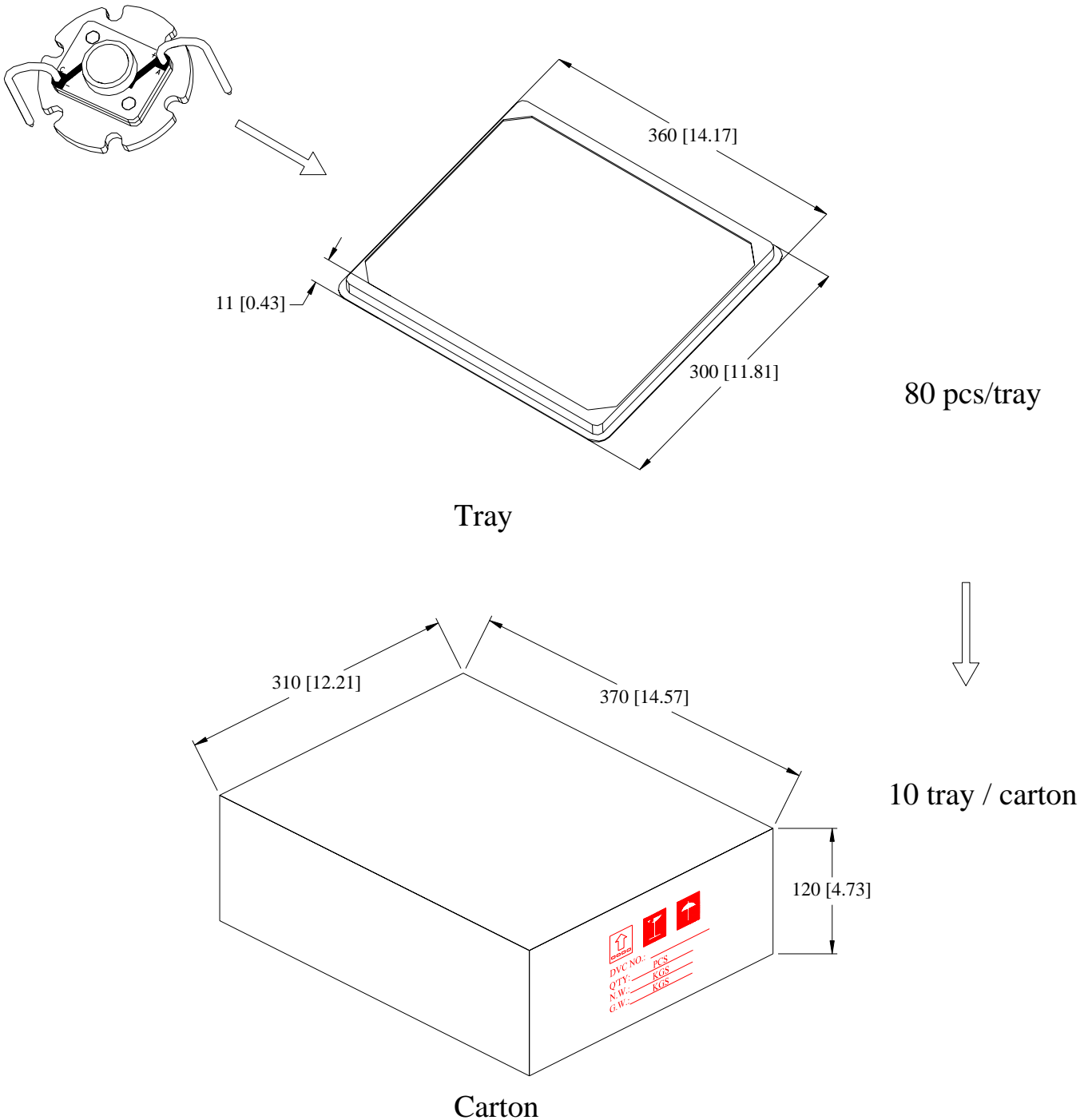


Fig.6 RADIATION DIAGRAM



● Package Method : (unit:mm)



NOTES : Tray : Tolerance is ± 5 mm unless otherwise noted.

Carton : Tolerance is ± 10 mm unless otherwise noted.