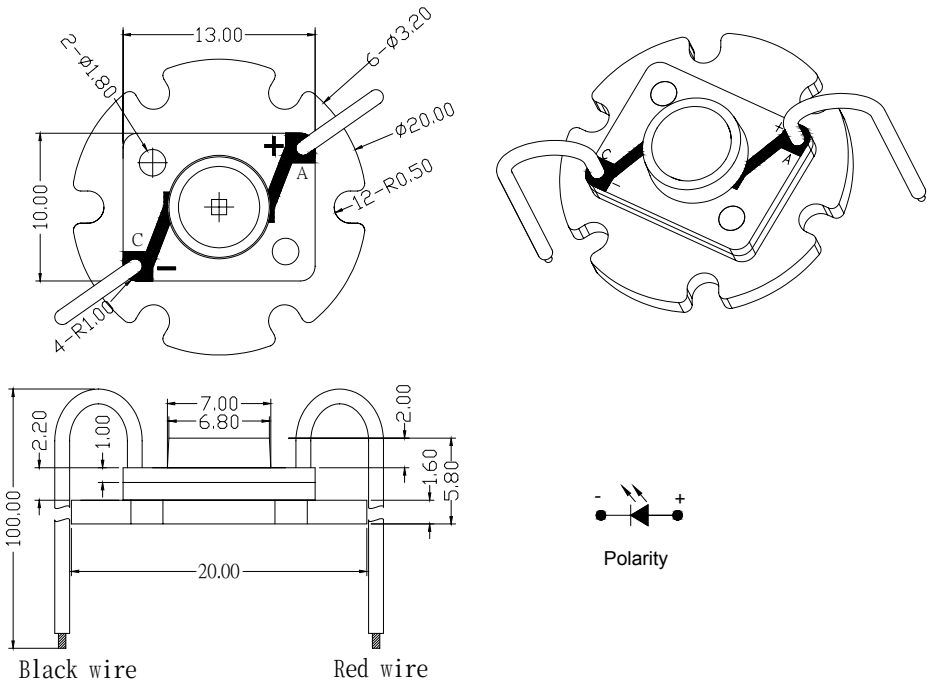
Features:

1. Input power: 1W.
2. Chip material: AlGaInP.
3. Emitted color: Red.
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：



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.5mm unless otherwise specified.

● Absolute maximum ratings(Ta=25℃)

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	Topr	-30~120	°C
Storage Temperature	Tstg	-40~120	°C
Reverse Voltage	VR	5	V
Soldering Temperature (T=5 sec)	Tsol	300 ± 5	°C

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

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

● Electrical & Optical Characteristics LED (Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F =350mA	-	2.2	2.6	V
Total Flux	Φ_v	I_F =350mA	20	25	-	lm
Peak Wavelength	λp	I_F =350mA	-	635	-	nm
Dominant Wavelength	λd	I_F =350mA	620	-	630	nm
Spectral Line Half-width	Δλ	I_F =350mA	-	20	-	nm
Reverse Current	I_R	V_R=5V	-	-	50	μA
Thermal Resistance, Junction To Case	$R\theta_{J-C}$	TJ = 25℃，I_F = 350mA	-	15	-	℃/W
Viewing Angle	$2\theta_{1/2}$	I_F = 350mA	-	120	-	degree

Typical electro-optical characteristics curves

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

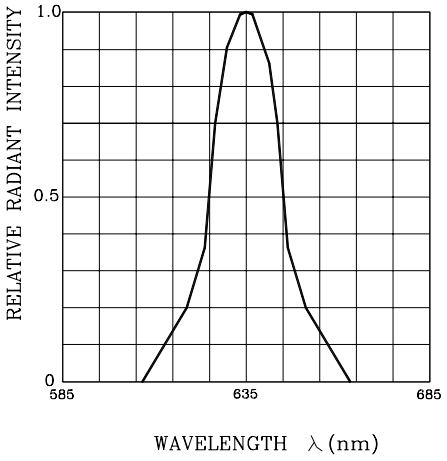


Fig.2 FORWARD CURRENT DERATING CURVE

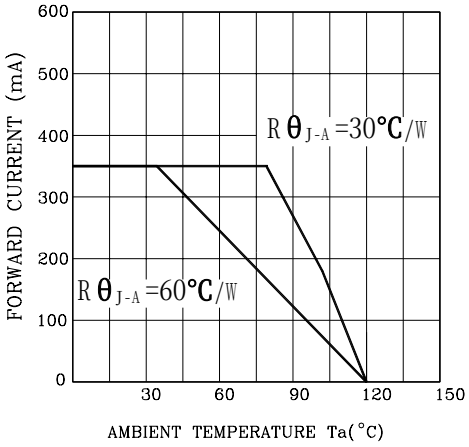


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

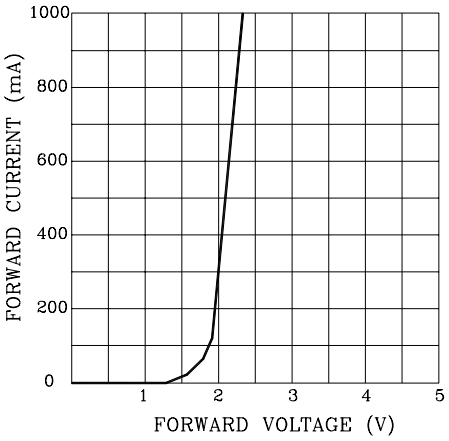


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

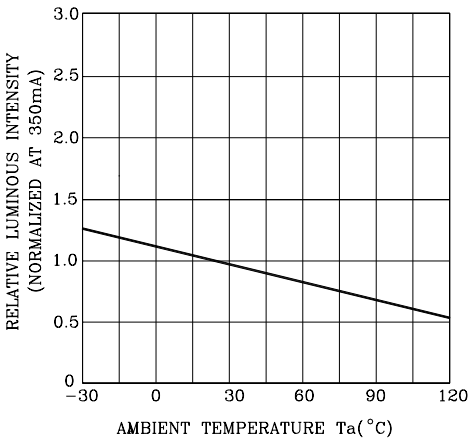


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

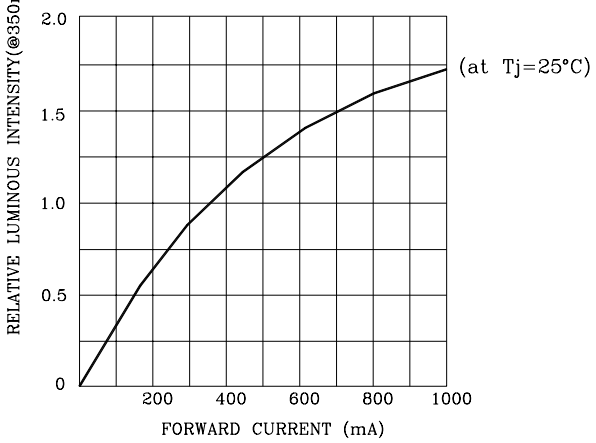
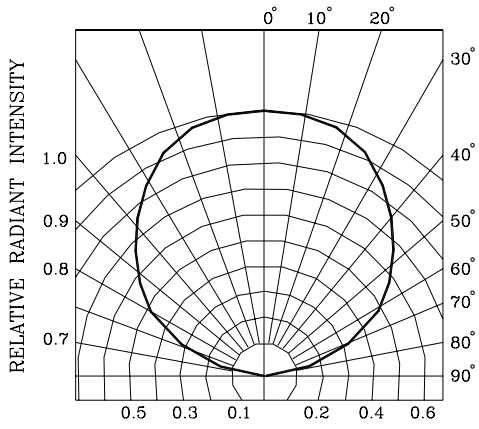
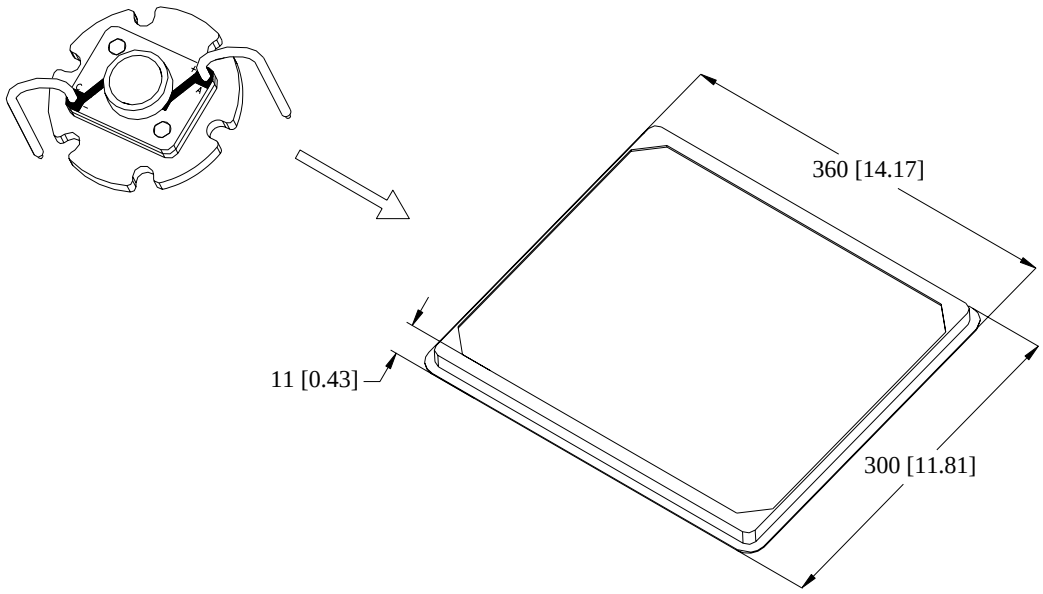


Fig.6 RADIATION DIAGRAM

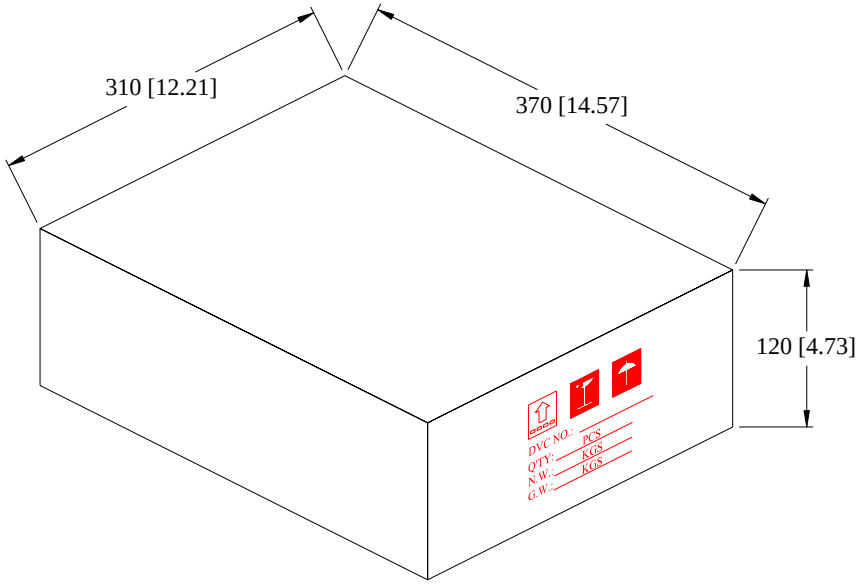


● **Package Method : (unit:mm)**



80 pcs/tray

Tray



10 tray / carton

Carton

NOTES : Tray : Tolerance is ± 5 mm unless otherwise noted.
Carton : Tolerance is ± 10 mm unless otherwise noted.