

● 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} | -30~120 | °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 = 350mA | - | 2.2 | 2.6 | V |
| Total Flux | Φ _v | I _F = 350mA | 20 | 25 | - | lm |
| Peak Wavelength | ρ | I _F = 350mA | - | 590 | - | nm |
| Dominant Wavelength | d | I _F = 350mA | 585 | - | 595 | 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 _{J-C} | T _J = 25°C , I _F = 350mA | - | 15 | - | °C/W |
| Viewing Angle | 2θ _{1/2} | I _F = 350mA | - | 120 | - | degree |

● Typical electro-optical characteristics curves

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

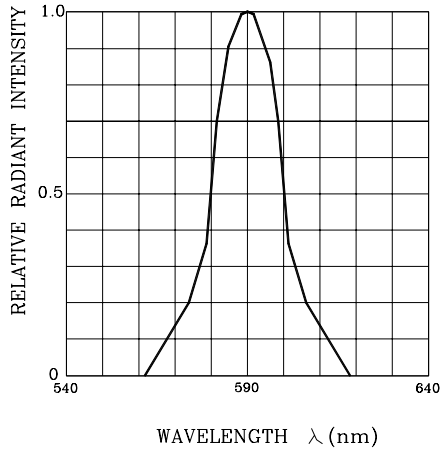


Fig.2 FORWARD CURRENT DERATING CURVE

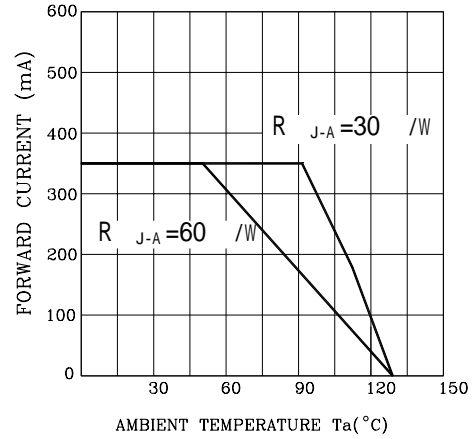


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

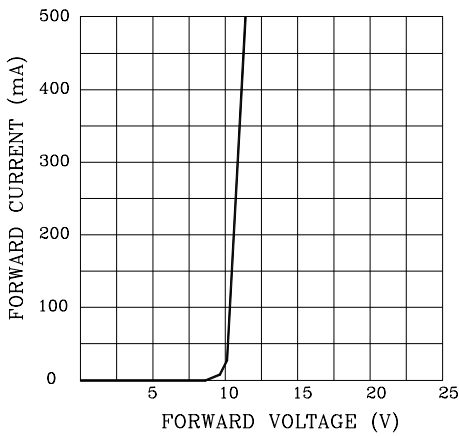


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

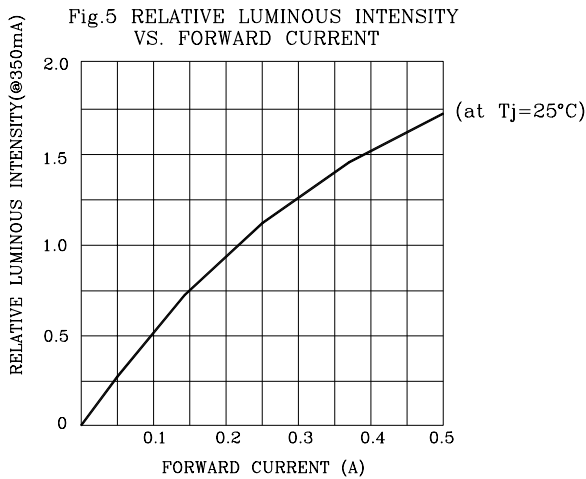
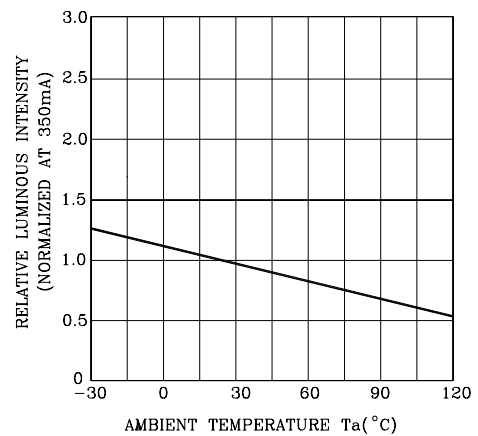
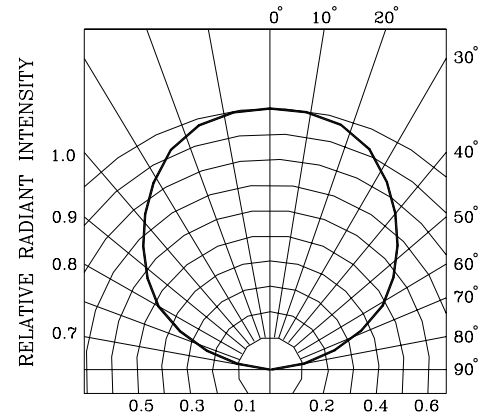
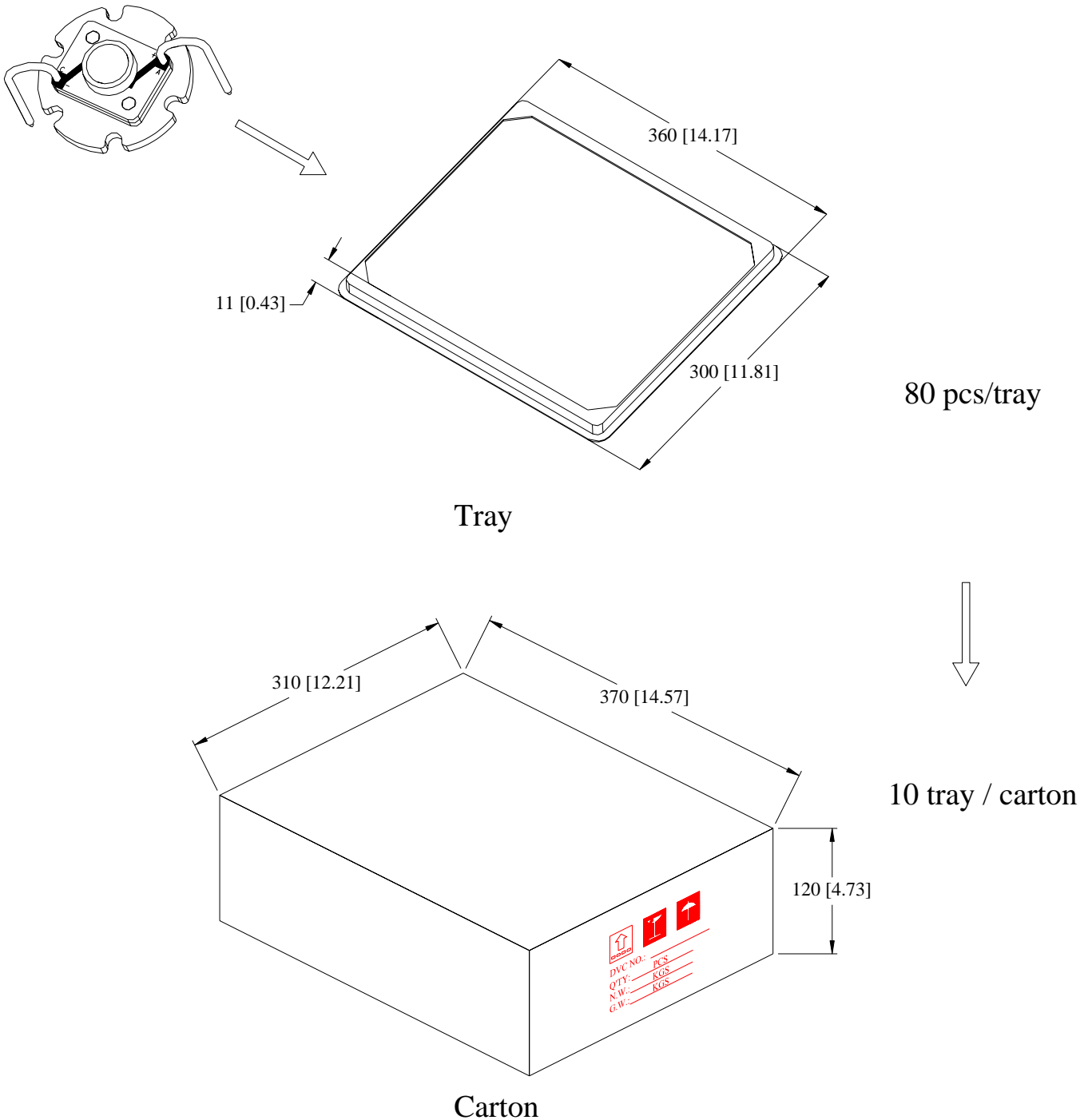


Fig.6 RADIATION DIAGRAM



● Package Method : (unit:mm)



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

Carton : Tolerance is ± 10 mm unless otherwise noted.