



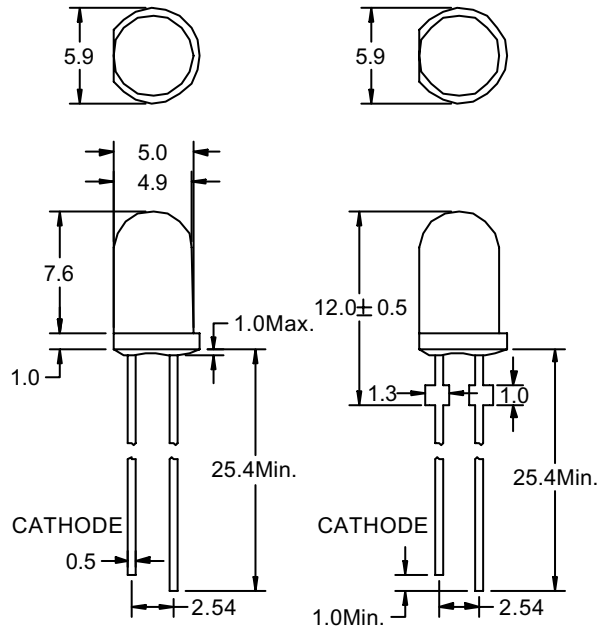
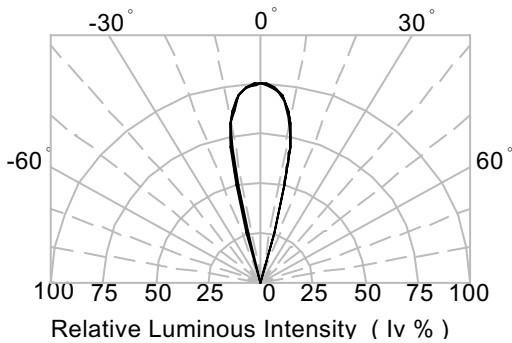
**BVU-5K5QG4
BVT-5K5QG4**

PACKAGE CONFIGURATION

DESCRIPTION

Dice Material : AlGaInP Orange Red
Light Color : Orange Red Color
Lens Color : Water Transparent
Stand-Off P/N : BVU-5K5QG4 R

RADIATION PATTERN



Tolerance ± 0.25 mm

ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C

| PARAMETER | MAX. | UNIT |
|--|----------------------|-------|
| Power Dissipation | 80 | mW |
| Continuous Forward Current | 30 | mA |
| Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width) | 160 | mA |
| Reverse Voltage | 5 | V |
| Derating Linear From 50 °C | 0.4 | mA/°C |
| Operating Temperature Range | -40 °C to + 100 °C | |
| Storage Temperature Range | -40 °C to + 100 °C | |
| Lead Solder Temperature 1.6 mm Below Package | 260 °C for 5 seconds | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 °C

| SYMBOL | PARAMETER | TEST COND. | MIN. | TYP. | MAX. | UNIT |
|-------------------|--------------------------|------------------------|------|------|------|------|
| V _F | Forward Voltage | I _F = 20 mA | | 2.2 | 2.7 | V |
| I _R | Reverse Current | V _R = 5V | | | 100 | μA |
| λ _p | Peak Emission Wavelength | I _F = 20 mA | | 630 | | nm |
| λ _d | Dominant Wavelength | I _F = 20 mA | | 625 | | nm |
| 2θ _{1/2} | Viewing Angle | I _F = 20 mA | | 25 | | Deg |

BIN GRADE LIMITS (I_F = 20 mA) LUMINOUS INTENSITY / mcd

| Bin | N | O | P | Q | R | S |
|------|------|------|------|------|-------|-------|
| Min. | 2800 | 3600 | 4650 | 6000 | 7800 | 10000 |
| Max. | 3600 | 4650 | 6000 | 7800 | 10000 | 13000 |

Tolerance ± 15% mcd

*Bright View reserves the rights to alter specifications and remove availability of products at any time without notice.

*Dominant Wavelength, λ_d is according to CIE Chromaticity Diagram base on color of lamps.

*θ_{1/2} is the off-axis angle where the luminous intensity is one half the on-axis intensity.



AlGaInP LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

FIG. 1 Forward Current Vs. Forward Voltage

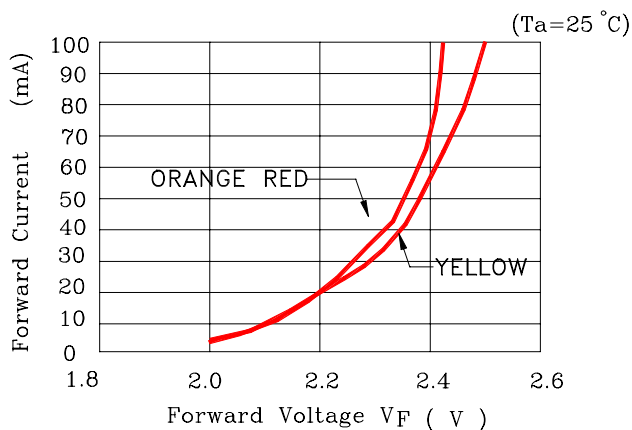


FIG. 2 Relative Intensity Vs. Forward Current

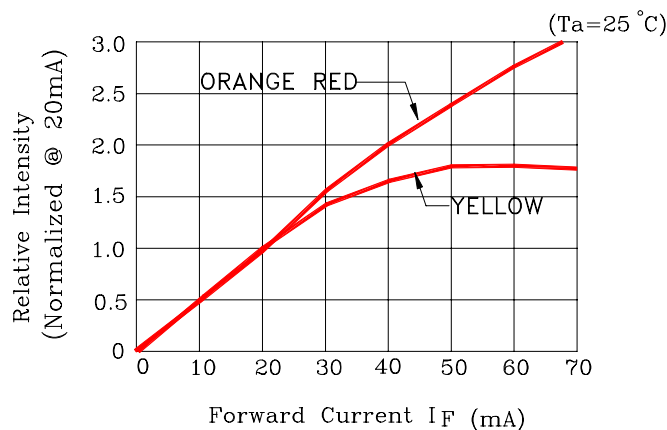


FIG. 3 Forward Voltage VS. Temperature

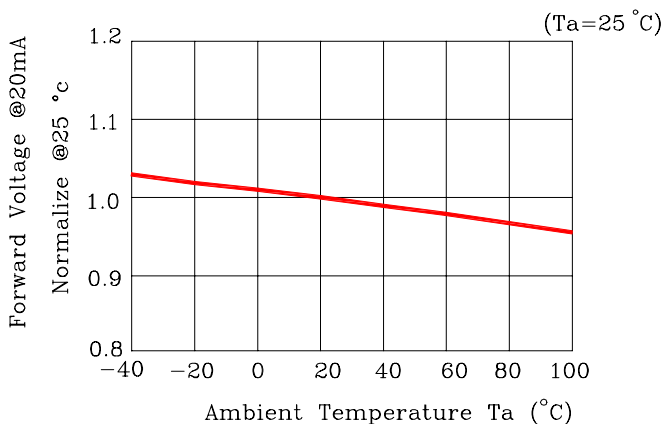


FIG. 4 Relative Intensity vs. Temperature

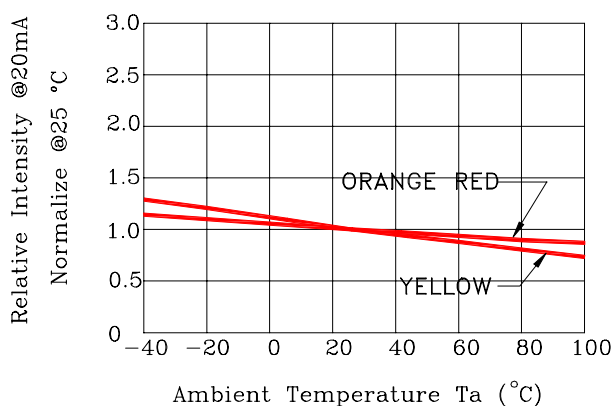


FIG. 5 Relative Intensity vs. Wavelength (λ_p)

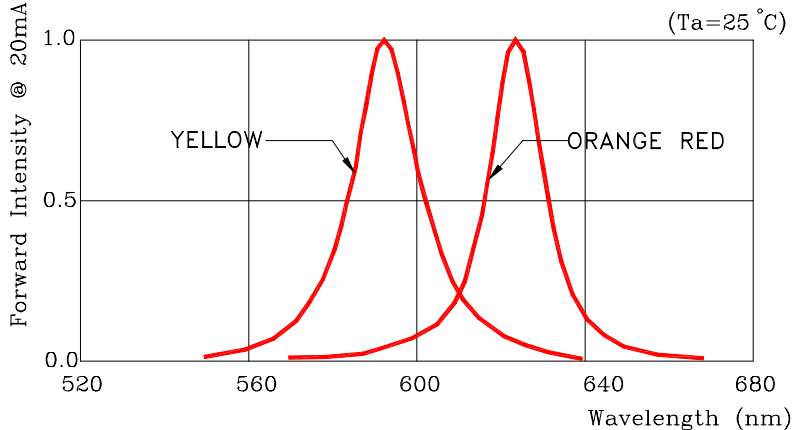
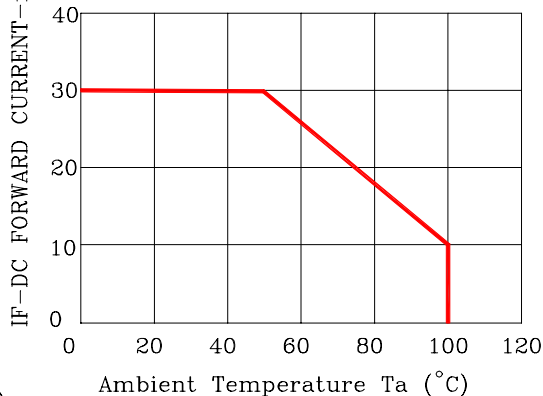
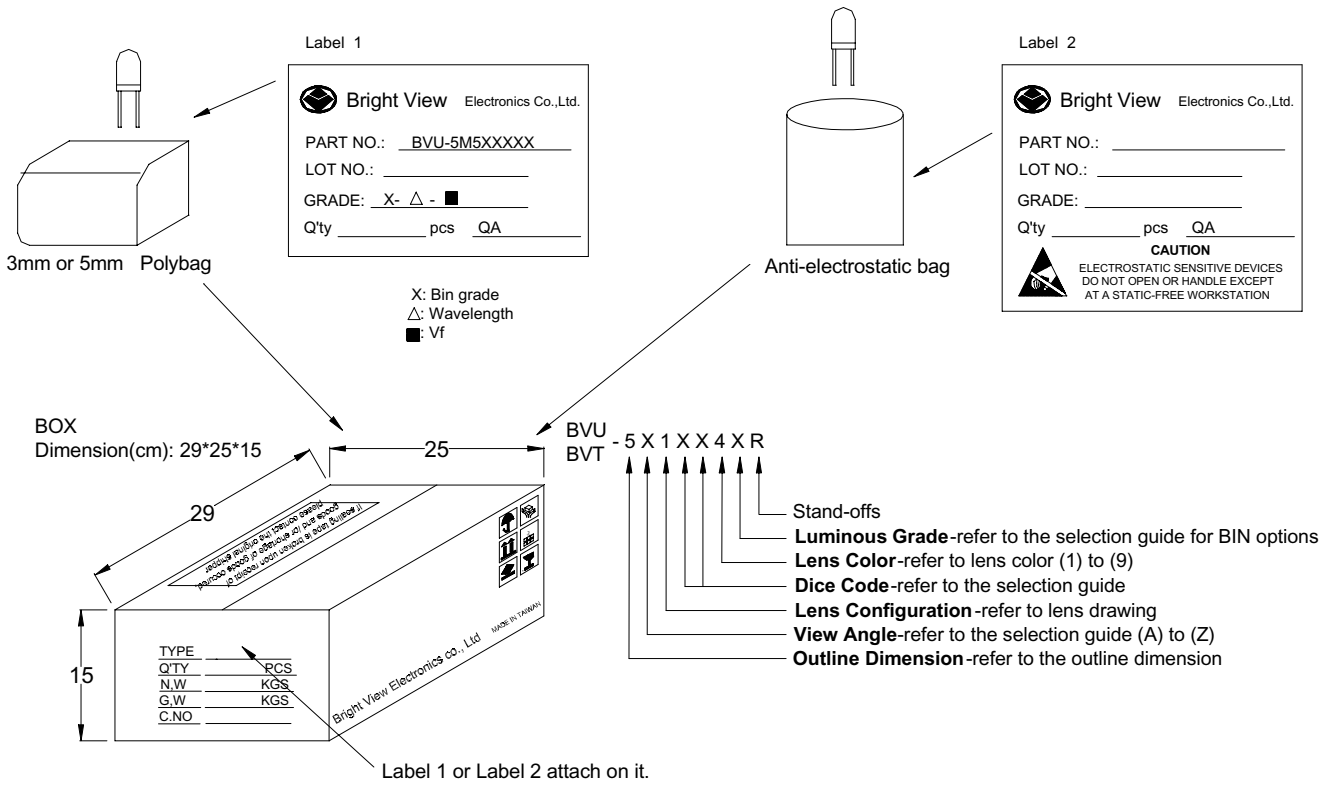
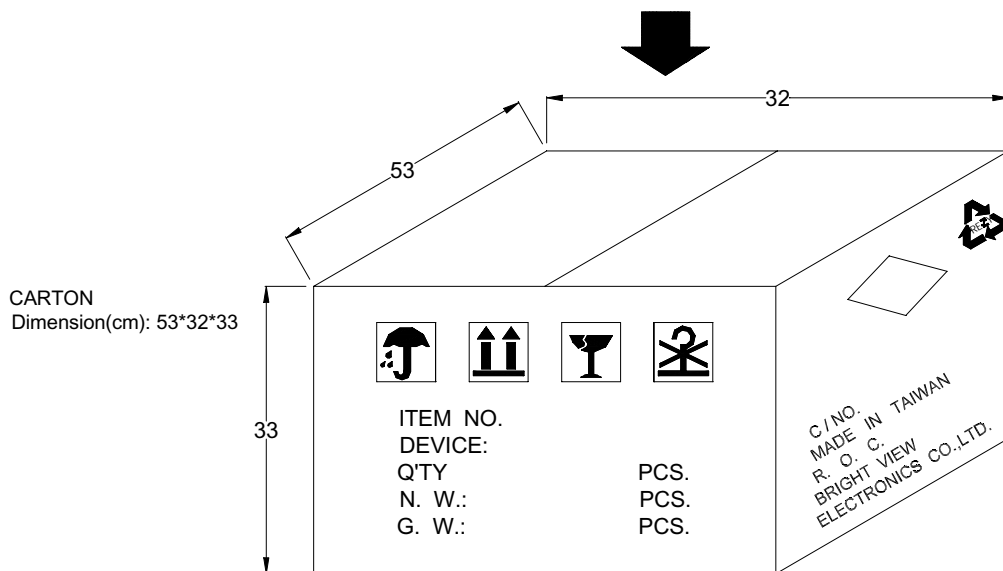


FIG. 6 Maximum Forward Current vs. Ambient Temperature. Derating Based on $T_{MAX}=130^\circ C$





| Device | Q'ty / Polybag (pcs) | Polybag / Box A | Fig. |
|----------------------|----------------------|-----------------|---------|
| 5mm(T-1 3/4) | 1000pcs | 14 bags | Label 1 |
| 3mm(T-1) | 1000pcs | 20 bags | Label 1 |
| Blue / Green / White | 500pcs | 18 bags | Label 2 |



4 Boxes / Carton
5mm : 56,000pcs
3mm : 80,000pcs
Blue / Green / White : 36,000pcs