



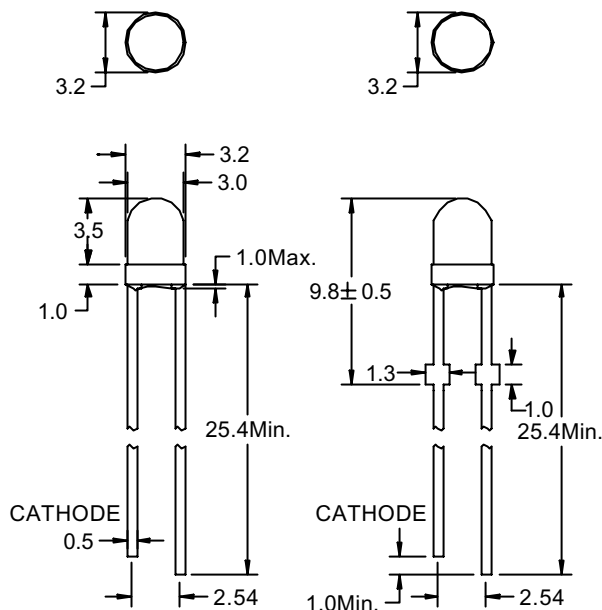
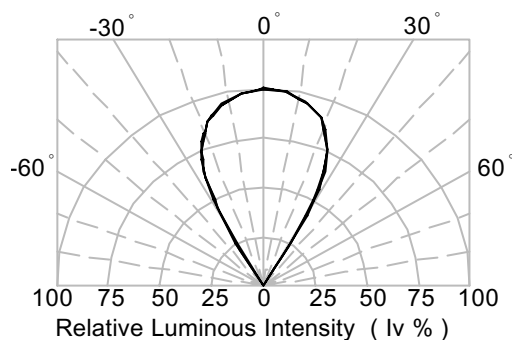
## BVU-3A16YA4

## PACKAGE CONFIGURATION

### DESCRIPTION

Dice Material : AlGaInP Yellow  
Light Color : Yellow Color  
Lens Color : Water Transparent  
Stand-Off P/N : BVU-3A16YA4 R

### RADIATION PATTERN



Tolerance  $\pm 0.25$  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 25 °C                                        | 0.4                | mA/°C |
| Operating Temperature Range                                       | −30 °C to + 85 °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 |      | 2.1  | 2.7  | V       |
| I R            | Reverse Current          | V R = 5V    |      |      | 100  | $\mu$ A |
| $\lambda_p$    | Peak Emission Wavelength | I F = 20 mA |      | 591  |      | n m     |
| $\lambda_d$    | Dominant Wavelength      | I F = 20 mA |      | 589  |      | n m     |
| 2 $\theta$ 1/2 | Viewing Angle            | I F = 20 mA |      | 60   |      | Deg     |

### BIN GRADE LIMITS ( I F = 20 mA ) LUMINOUS INTENSITY / mcd

| Bin  | I    | J    | K    | L    | M    | N    |
|------|------|------|------|------|------|------|
| Min. | 780  | 1000 | 1300 | 1680 | 2180 | 2800 |
| Max. | 1000 | 1300 | 1680 | 2180 | 2800 | 3600 |

Tolerance  $\pm 15\%$  mcd

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

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

\*  $\theta$  1/2 is the off-axis angle where the luminous intensity is one half the on-axis intensity.



## AlGaInP LED FOR YA/EA/QA Series TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

FIG. 1 Forward Current Vs. Forward Voltage

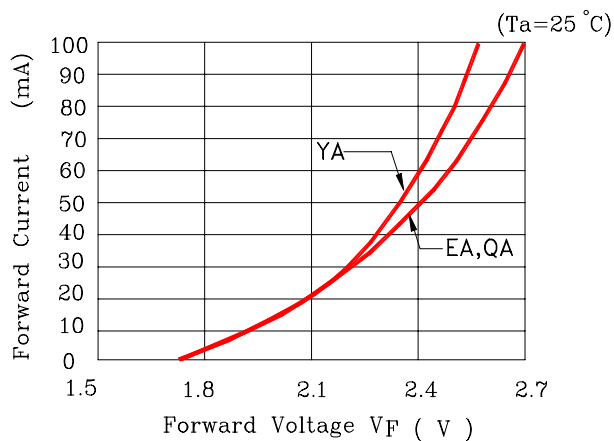


FIG. 2 Relative Intensity Vs. Forward Current

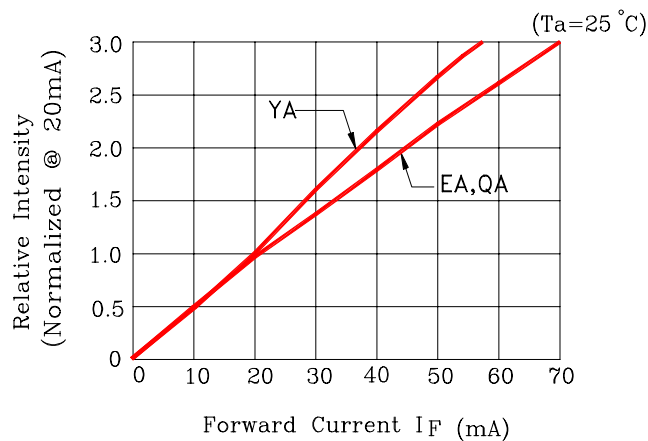


FIG. 3 Forward Voltage VS. Temperature

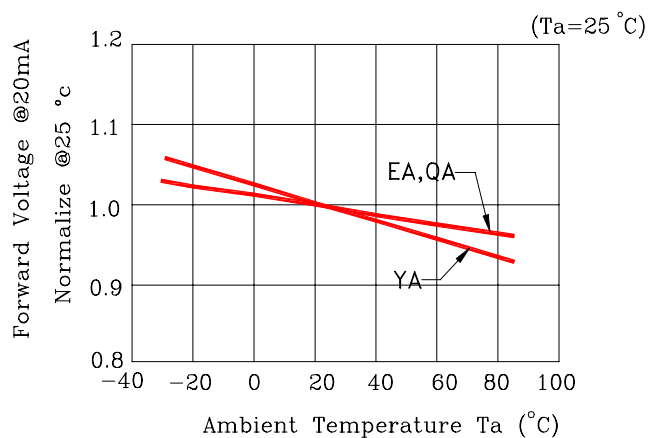


FIG. 4 Relative Intensity vs. Temperature

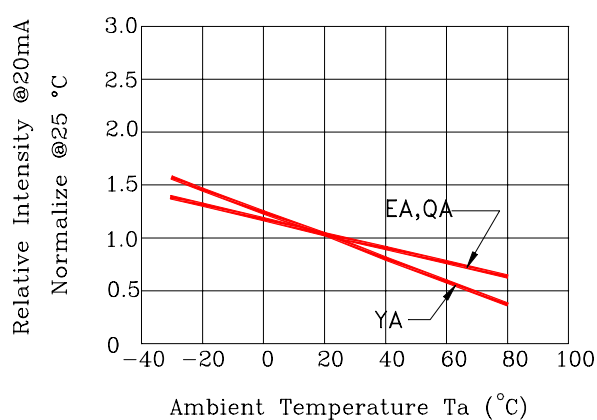


FIG. 5 Relative Intensity vs. Wavelength ( $\lambda_p$ )

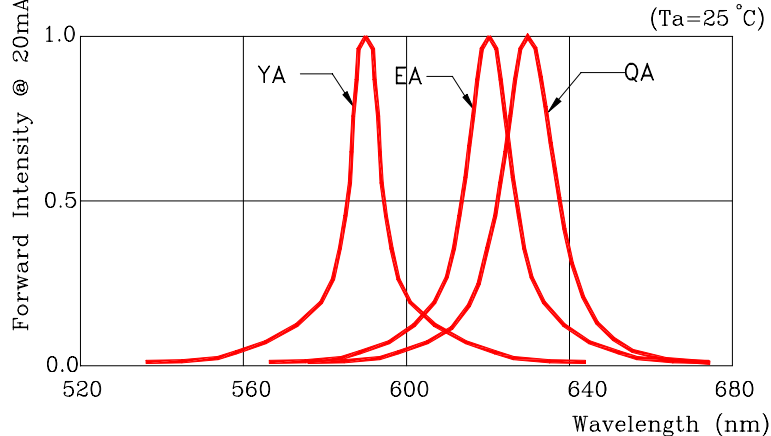
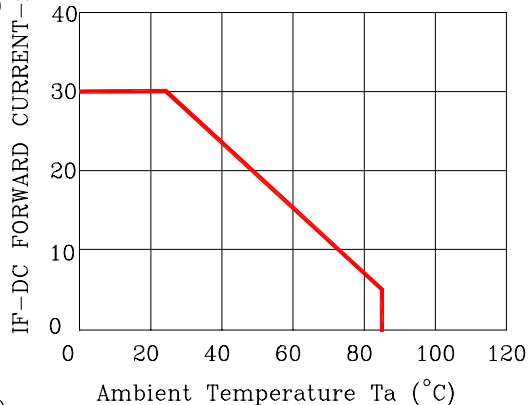
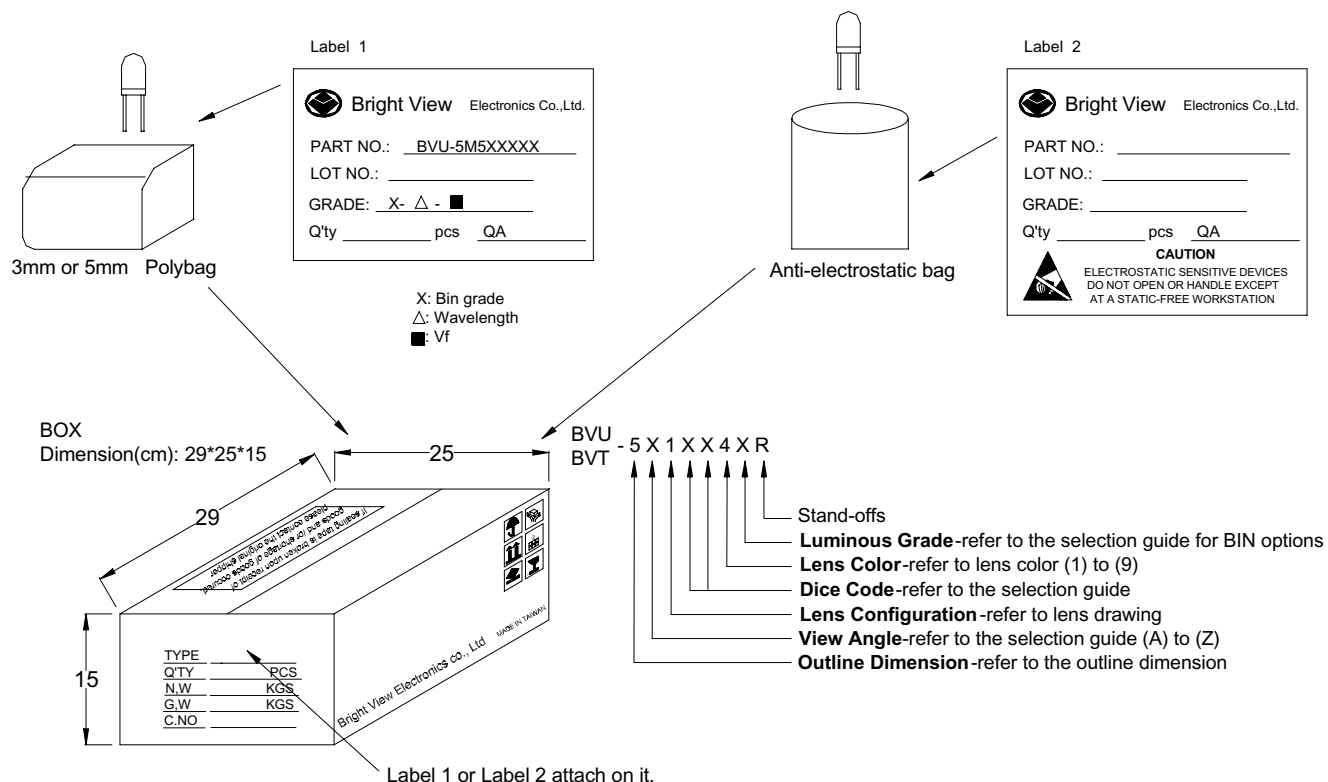


FIG. 6 Maximum Forward Current vs. Ambient Temperature. Derating Based on  $T_{JMAX} = 130^\circ\text{C}$

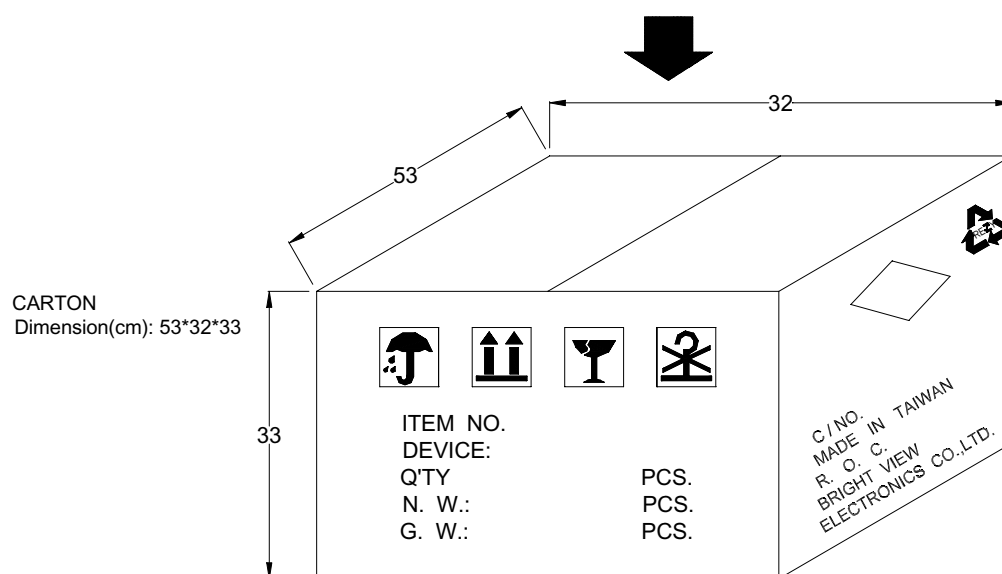




## LAMP PACKING



| 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