

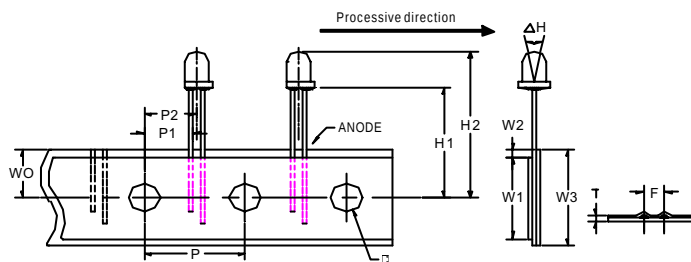


## BVQ-5M5TT4# -TA

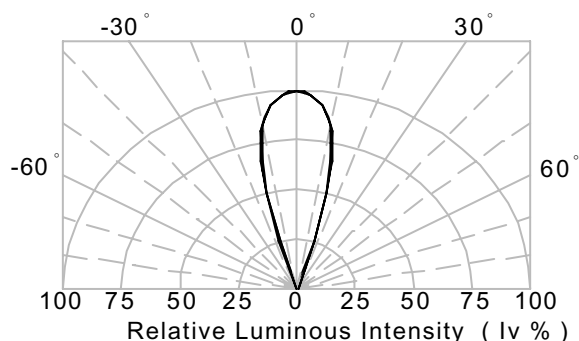
## PACKAGE CONFIGURATION

### DESCRIPTION

Dice Material : AlInGaP/GaP Yellow  
Light Color : Yellow Color  
Lens Color : Water Transparent  
Stand-Off P/N : BVQ-5M5TT4# R-TA



### RADIATION PATTERN



| ITEM                            | SYMBOL | SPECIFICATION |           |
|---------------------------------|--------|---------------|-----------|
|                                 |        | SIZE          | TOLERANCE |
| TAPE FEED HOLE DIAMETER         | D      | 4.0           | ± 0.2     |
| COMPONENT LEAD PITCH            | F      | 2.54          | ± 0.5     |
| FRONT-TO-REAR DEFLECTION        | ΔH     |               | MAX. 2.0  |
| FEED HOLE PITCH                 | P      | 12.7          | ± 0.3     |
| LEAD LOCATION                   | P1     | 5.33          | ± 0.7     |
| CENTER OF COMPONENT LOCATION    | P2     | 6.35          | ± 1.3     |
| OVERALL TAPED PACKAGE THICKNESS | T      |               | MAX. 1.0  |
| FEED HOLE LOCATION              | W0     | 9.0           | ± 0.5     |
| ADHESIVE TAPE WIDTH             | W1     | 13.0          | ± 0.5     |
| ADHESIVE TAPE POSITION          | W2     |               | MAX. 4.0  |
| TAPE WIDTH                      | W3     | 18.0          | ± 0.5     |

NOTE 1: R : Loaded quantity per reel:1000 pcs/reel  
T : Loaded quantity per tape :2000 pcs/tape

| ITEM                                  | SYMBOL | NOTE 2: |      |      |      |      |
|---------------------------------------|--------|---------|------|------|------|------|
|                                       |        | A       | B    | C    | D    | E    |
| FEED HOLE TO BOTTOM OF COMPONENT      | H1     | 18.5    | 19.0 | 19.7 | 21.5 | 22.5 |
| FEED HOLE TO OVERALL COMPONENT HEIGHT | H2     | 27.1    | 27.6 | 28.3 | 30.1 | 31.1 |

### 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 <sub>F</sub>    | Forward Voltage          | I <sub>F</sub> = 20 mA |      | 2.3  | 2.8  | V    |
| I <sub>R</sub>    | Reverse Current          | V <sub>R</sub> = 5V    |      |      | 100  | μA   |
| λ <sub>p</sub>    | Peak Emission Wavelength | I <sub>F</sub> = 20 mA |      | 592  |      | nm   |
| λ <sub>d</sub>    | Dominant Wavelength      | I <sub>F</sub> = 20 mA |      | 590  |      | nm   |
| 2θ <sub>1/2</sub> | Viewing Angle            | I <sub>F</sub> = 20 mA |      | 30   |      | Deg  |

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

| Device | □BVQ-5M5TT4D-TA |      |      | □BVQ-5M5TT4E-TA |      |      | □BVQ-5M5TT4F-TA |       |       | □BVQ-5M5TT4G-TA |       |       |
|--------|-----------------|------|------|-----------------|------|------|-----------------|-------|-------|-----------------|-------|-------|
| Bin    | K               | L    | M    | N               | O    | P    | Q               | R     | S     | T               | U     | V     |
| Min.   | 1300            | 1680 | 2180 | 2800            | 3600 | 4650 | 6000            | 7800  | 10000 | 13000           | 16800 | 21800 |
| Max.   | 1680            | 2180 | 2800 | 3600            | 4650 | 6000 | 7800            | 10000 | 13000 | 16800           | 21800 | 28000 |

Tolerance ± 15% mcd

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

\*Dominant Wavelength, λ<sub>d</sub> is according to CIE Chromaticity Diagram base on color of lamps.

\*θ<sub>1/2</sub> is the off-axis angle where the luminous intensity is one half the on-axis intensity.