

Kingbright®

10mm BAYONET BASED LED LAMPS

BLB101 SERIES

Features

- | BUILT-IN CURRENT LIMITING RESISTOR FOR DIRECT APPLICATION OF DIFFERENT ACROSS CURRENT.
- | LONG LIFE.
- | LOW CURRENT, POWER SAVINGS.
- | LOW MAINTENANCE.
- | DIFFERENT COLOR AVAILABLE.
- | SOLID STATE, HIGH VIBRATION RESISTANT.

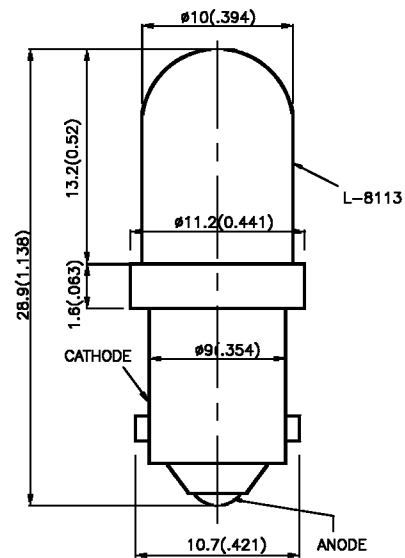
Description

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

The Super Bright Yellow source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

Package Dimensions



- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
 3. Lead spacing is measured where the lead emerge package.
 4. Specifications are subjected to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) | | Viewing Angle |
|-----------------|-------------------------------|-------------|----------|----------------|---------------|
| | | | V=6V | V=12V V=24V | |
| BLB101URC-6V-P | SUPER BRIGHT RED (GaAlAs) | WATER CLEAR | 1500 | 3000 | 20 $^{\circ}$ |
| BLB101URC-12V-P | | WATER CLEAR | 1500 | 3000 | 20 $^{\circ}$ |
| BLB101URC-24V-P | | WATER CLEAR | 1500 | 3000 | 20 $^{\circ}$ |
| BLB101SGC-6V-P | SUPER BRIGHT GREEN (GaP) | WATER CLEAR | 200 | 700 | 20 $^{\circ}$ |
| BLB101SGC-12V-P | | WATER CLEAR | 200 | 700 | 20 $^{\circ}$ |
| BLB101SGC-24V-P | | WATER CLEAR | 200 | 700 | 20 $^{\circ}$ |
| BLB101SYC-6V-P | SUPER BRIGHT YELLOW (InGaAlP) | WATER CLEAR | 700 | 2500 | 20 $^{\circ}$ |
| BLB101SYC-12V-P | | WATER CLEAR | 700 | 2500 | 20 $^{\circ}$ |
| BLB101SYC-24V-P | | WATER CLEAR | 700 | 2500 | 20 $^{\circ}$ |

Note:
1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

| Symbol | Parameter | Device | Typ. | Units | Test Conditions |
|-------------------------|-------------------------|--|-------------------|-------|---------------------------|
| λ_{peak} | Peak Wavelength | Super Bright Red (UR) Super Bright Green (SG) Super Bright Yellow (SY) | 660 565 595 | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Halfwidth | Super Bright Red (UR) Super Bright Green (SG) Super Bright Yellow (SY) | 20 30 20 | nm | IF=20mA |
| I _F | Forward Current | Super Bright Red (UR) Super Bright Green (SG) Super Bright Yellow (SY) | 25 25 20 | mA | VF=6V VF=12V VF=24V |
| I _R | Reverse Current | All | 10 | uA | VR = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Super Bright Red | Super Bright Green | Super Bright Yellow | Units |
|-------------------------------|------------------|--------------------|---------------------|-------|
| Power dissipation (6V) | 310 | 310 | 310 | mW |
| Power dissipation (12V) | 355 | 355 | 355 | mW |
| Power dissipation (24V) | 550 | 550 | 550 | mW |
| Derating Linear from 50°C | 0.25 | 0.4 | 0.4 | mA |
| Reverse Voltage | 5 | 5 | 5 | V |
| Operating/Storage Temperature | -40 °C To +85 °C | | | |