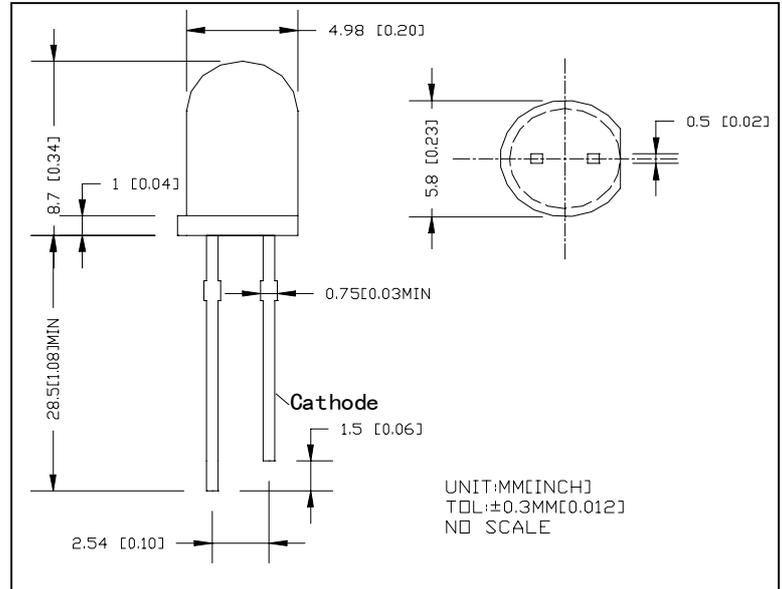


#### DESCRIPTION

MBB51TK-11J is an ultra high brightness InGaN/GaN blue LED lamp encapsulated in a 5mm diameter clear transparent lens .



#### ABSOLUTE MAXIMUM RATINGS

|  |                  |
|--|------------------|
| Power Dissipation @ Ta=25°C                  | 125mW            |
| Continuous Forward Current                   | 30mA             |
| Reverse Voltage                              | 5V               |
| Operating Temperature Range                  | -20 to +80°C     |
| Storage Temperature Range                    | -30 to +100°C    |
| Lead Soldering Temperature (1/16" from body) | 260°C for 5 sec. |

#### ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER                 | SYMBOL | MIN  | TYP  | MAX | UNIT   | CONDITIONS |
|---------------------------|--------|------|------|-----|--------|------------|
| Forward Voltage           | VF     |      | 3.2  | 3.5 | V      | IF=20mA    |
| Reverse Breakdown Voltage | BVR    | 5    |      |     | V      | IR=100μA   |
| Viewing Angle             | 2θ 1/2 |      | 70   |     | degree | IF=20mA    |
| Luminous Intensity        | IV     | 3500 | 4200 |     | mcd    | IF=20mA    |
| Dominant Wavelength       | λ d    | 465  |      | 470 | nm     | IF=20mA    |
| Spectral Line Half Width  | Δ λ    |      | 30   |     | nm     | IF=20mA    |

#### CAUTION

Static electricity and surge damages the LED ,It is recommended to use a wrist band or anti-eletrostatic glove when handling the LED . All devices,equipment and machinery must be properly grounded.



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# MBB51TK-11J

## Typical Electro-Optical Characteristics Curves(Ta=25°C)

