

DESCRIPTION

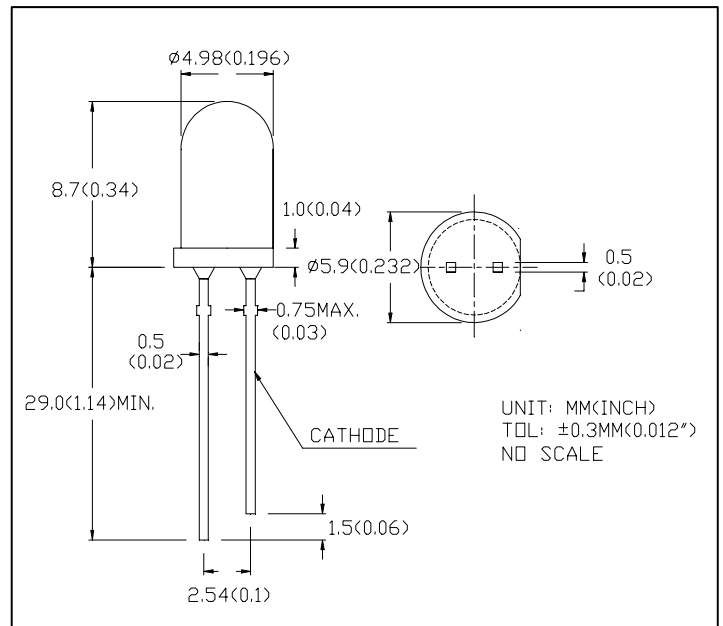
MBB51XA-EJ series are high brightness InGaN/GaN blue LED lamps with 5mm diameter epoxy package .

MBB51CA-EJ is blue chip with blue transparent lens.

MBB51DA-EJ is blue chip with blue diffused

MBB51TA-EJ is blue chip with clear transparent lens.

MBB51WA-EJ is blue chip with white diffused lens.



ABSOLUTE MAXIMUM RATINGS

| | |
|--|------------------|
| Power Dissipation @ Ta=25°C | 125mW |
| Forward Current, DC (IF) | 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 | | 3.5 | 4.5 | V | IF=20mA |
| Reverse Breakdown Voltage | BVR | 5 | | | V | IR=100µA |
| Dominant Wavelength | λ_d | 465 | 468 | 470 | nm | IF=20mA |
| Spectral Line Half Width | $\Delta\lambda$ | | 30 | | nm | IF=20mA |
| Luminous Intensity | IV | 100 | 180 | | mcd | IF=20mA |
| | IV | 2500 | 3500 | | mcd | IF=20mA |
| Viewing Angle | 2θ 1/2 | | 40 | | degree | IF=20mA |
| | 2θ 1/2 | | 20 | | degree | 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.

REV : A

12/12/02



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MBB51DA-EJ
MBB51WA-EJ

