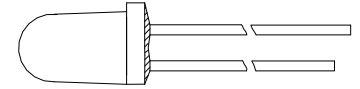


- Features:
- High intensity
 - Blue diffused (CD) or Water clear (WC) epoxy

LED Lamp Package



Electro / Optical Characteristics $I_F = 20 \text{ mA}$ $T_a = 25^\circ \text{ C}$

| LED Part Number | Emitting Colour | Epoxy Type | Die Material | Wavelength | | Forward Voltage V_F | | Luminous intensity I_V | | Luminous Flux ϕ_V | Viewing \angle $2\theta_{1/2}$ |
|-----------------|-----------------|------------|--------------|------------------|----------------------|-----------------------|------|--------------------------|---------|------------------------|----------------------------------|
| | | | | Peak λ_p | Dominant λ_d | typical | max | min | typical | | |
| FNL-U500B23CDSL | Blue | CD | InGaN/SiC | - | 470 | 3.20 | 3.70 | - | 170 | - | 60° |
| FNL-U500B22CDSL | Blue | CD | InGaN/SiC | - | 460 | 3.20 | 3.70 | - | 170 | - | 60° |
| FNL-U501B23WCSL | Blue | WC | InGaN/SiC | - | 470 | 3.20 | 3.70 | - | 600 | - | 25° |
| FNL-U501B22WCSL | Blue | WC | InGaN/SiC | - | 460 | 3.20 | 3.70 | - | 600 | - | 25° |
| FNL-U500B23WCSL | Blue | WC | InGaN/SiC | - | 470 | 3.20 | 3.70 | - | 1100 | - | 15° |
| FNL-U500B22WCSL | Blue | WC | InGaN/SiC | - | 460 | 3.20 | 3.70 | - | 1100 | - | 15° |
| Units | | | | nm | | V | | mcd | | mlm | deg |

Maximum Ratings $T_a = 25^\circ \text{ C}$ (Derate above 25° C)

| Characteristic | Condition | Symbol | Rating | Units |
|----------------------------|----------------------------------|-----------|---------------|-------|
| Pulse Forward Current | 0.1 duty cycle @ 1KHz | I_{FP} | 100 | mA |
| DC Forward Current | | I_F | 25 | mA |
| Reverse Voltage | $I_R = 100 \mu\text{A}$ | V_R | 5 | V |
| Power Dissipation | | P_D | 85 | mW |
| Operating Temperature | | T_{opr} | - 20 to + 80 | ° C |
| Storage Temperature | | T_{stg} | - 20 to + 100 | ° C |
| Lead soldering temperature | 1.6 mm from body - max 3 seconds | | 240 | ° C |

Note

Industry standard procedures regarding static must be observed when handling product produced with blue die material.

Package Outline

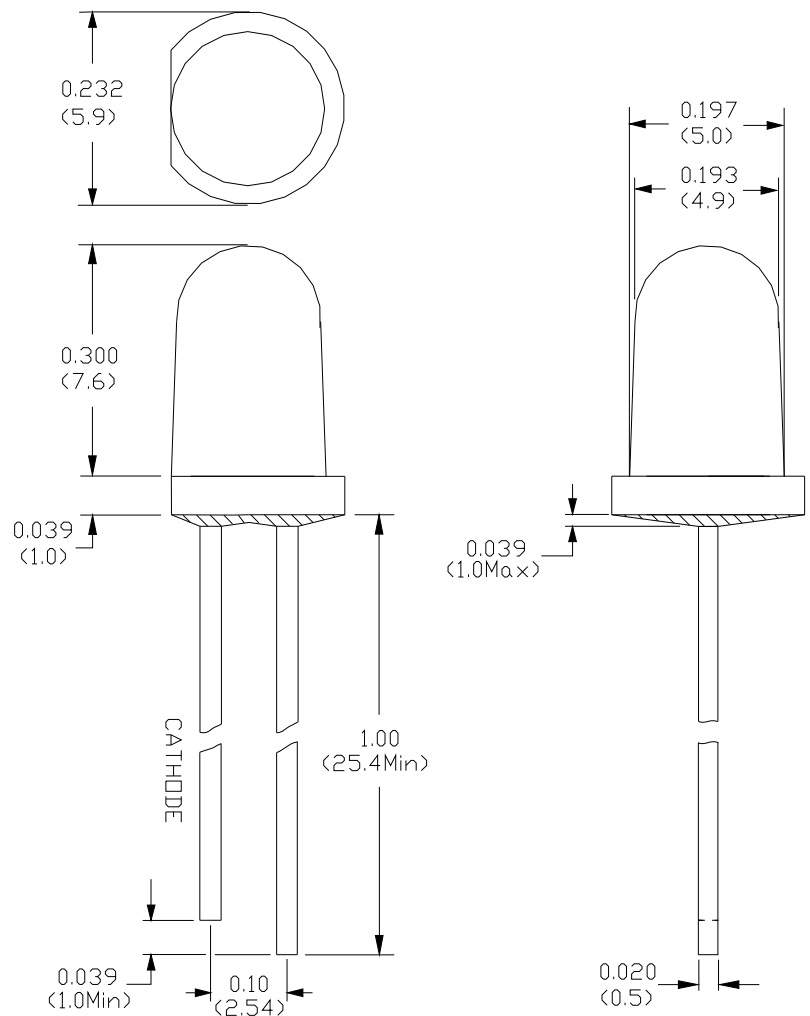
Dimensions in mm

Tol ± 0.25 mm unless stated



WARNING

This range of LEDs is produced with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.



Radiation Diagrams

T_a = 25°C

