



B5B-433-B505



TECHNICAL DATA

LED, 5 mm

InGaN

B5B-433-B505 is a InGaN LED mounted on a lead frame with a clear epoxy lens. On forward bias it emits a band of green light with a peak at 507 nm.

Specifications

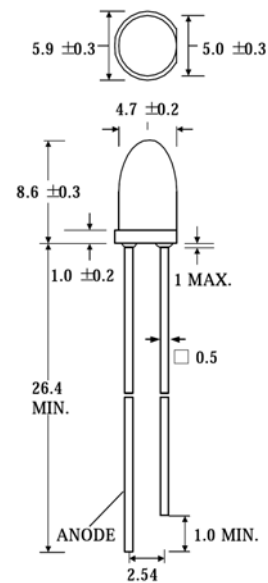
- Structure: InGaN
- Peak Wavelength: typ. 507 nm
- Optical Output Power: typ. 10.8 cd
- Package: 5 mm clear epoxy

Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

| Item | Symbol | Value | Unit |
|--------------------------|-----------|--------------|------------------|
| Power Dissipation | P_D | 120 | mW |
| Forward Current | I_F | 30 | mA |
| Pulse Forward Current *1 | I_{FP} | 100 | mA |
| Reverse Voltage | V_R | 5 | V |
| Operating Temperature | T_{opr} | -40 ... +85 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -40 ... +100 | $^\circ\text{C}$ |
| Soldering Temperature *2 | T_{sol} | 260 | $^\circ\text{C}$ |

*1 1/10 duty cycle @ 1 KHz

*2 1.6mm from body, must be completed within 3 seconds



(Unit: mm)

Electro-Optical Characteristics

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---------------------|-----------------|-----------------------|------|------|------|---------------|
| Forward Voltage | V_F | $I_F = 20 \text{ mA}$ | - | 3.2 | 3.8 | V |
| Reverse Current | I_R | $V_R = 5 \text{ V}$ | - | - | 10 | μA |
| Luminous Intensity | I_V | $I_F = 20 \text{ mA}$ | 7.2 | 10.8 | - | mcd |
| Peak Wavelength | λ_P | $I_F = 20 \text{ mA}$ | - | 507 | - | nm |
| Dominant Wavelength | λ_D | $I_F = 20 \text{ mA}$ | - | 505 | - | nm |
| Half Width | $\Delta\lambda$ | $I_F = 20 \text{ mA}$ | - | 30 | - | nm |
| Viewing Angle * | $2\Theta_{1/2}$ | $I_F = 20 \text{ mA}$ | - | 8 | - | deg. |

* Tolerance: -10 / +5 deg.

Notes

- Do not view directly into the emitting area of the LED during operation!
- The above specifications are for reference purpose only and subjected to change without prior notice.





Typical Performance Curves

