

L525/660-31
Bi-Color LED as Anode Common

Bi-color LED of L525/660-31 consists of InGaN(525nm) and AlGaInP(660nm) LEDs mounted on a lead frame with a clear epoxy lens as anode common. On forward bias it emits a band of visible light which peaks 525nm and 660nm.

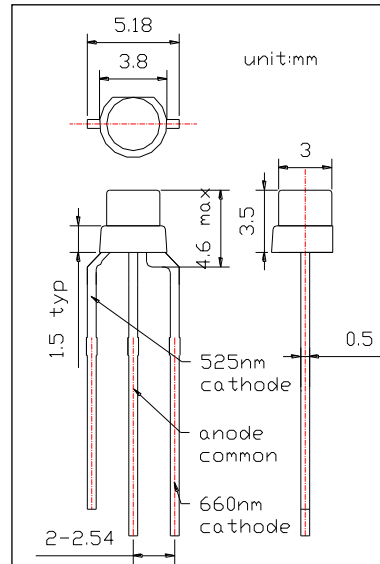
<Features>

- High Reliability
- High Power

<Specifications>

1. Product Name: Bi-color LED
2. Type Number: L525/660-31
3. Chip:
 - Chip material: InGaN and AlGaInP
 - Peak Wavelength: 525nm and 660nm typ.
4. Package
 - Type: Φ 3mm clear molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Lead Free

Outer Dimension (Unit:mm)



| Absolute Maximum Ratings | | | | | |
|--------------------------|--------|---------------------|-------|------|---------------------|
| Item | Symbol | Maximum Rated Value | | Unit | Ambient Temperature |
| | | 525nm | 660nm | | |
| Power Dissipation | PD | 180 | 120 | mW | Ta=25°C |
| Forward Current | IF | 50 | | mA | Ta=25°C |
| Reverse Voltage | IR | 5 | | V | Ta=25°C |
| Operating Temperature | TOPR | -30 ~ +85 | | °C | |
| Storage Temperature | TSTG | -40 ~ +100 | | °C | |
| Soldering Temperature | TSOL | 265 | | °C | |

Soldering condition: Soldering condition must be completed within 5 seconds at 265°C

| Electro-Optical Characteristics [Ta=25°C] | | | | | | | | | |
|---|-----------------|-----------|---------|-----|---------|------|---------|-----|------|
| Item | Symbol | Condition | Minimum | | Typical | | Maximum | | Unit |
| | | | 525 | 660 | 525 | 660 | 525 | 660 | |
| Forward Voltage | VF | IF=20mA | | | 3.1 | 2.1 | 4.0 | 2.5 | V |
| Reverse Current | IR | VR=5V | | | | | 10 | | uA |
| Total Radiated Power | PO | IF=20mA | 5.0 | 8.0 | 8.0 | 12.0 | | | mW |
| Peak Wavelength | λ P | IF=20mA | 515 | 650 | 525 | 660 | 535 | 670 | nm |
| Half Width | $\Delta\lambda$ | IF=20mA | | | 35 | 15 | | | nm |
| Viewing Half Angle | θ 1/2 | IF=20mA | | | ±65 | | | | Deg. |

Radiated Power is measured by S3584-08

