



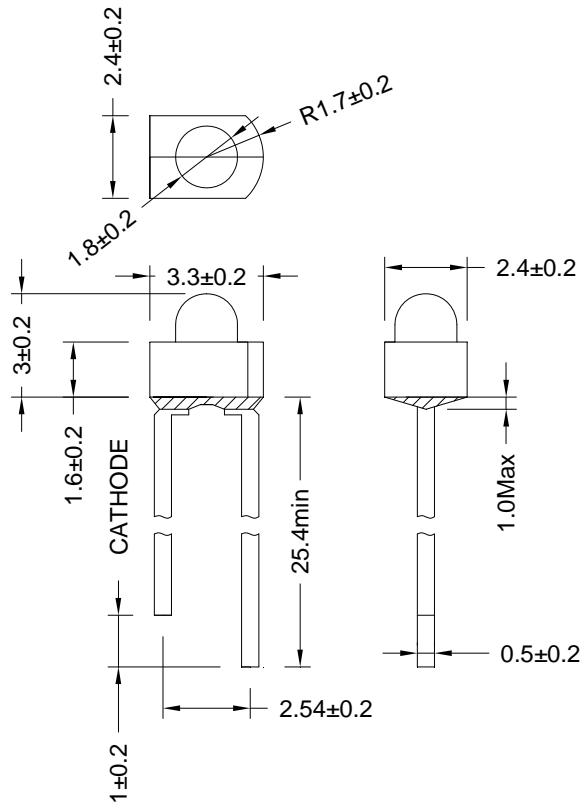
Part No./型号: **130LB7C**

Features/特征:

- Single color/单色
- High bright output/高亮度输出 t
- Low power consumption/低功率
- High reliability and long life/
可靠性高、寿命长

➤ **Descriptions/描述:**

- Dice material/芯片材质: InGaN
- Emitting Color/发光颜色:
Super Bright Blue/ 高亮度蓝色
- Device Outline/产品外形:
Special Type/ 特殊形状
- Lens Type 胶体颜色:
Water Clear/ 无色透明



NOTE:

- All dimensions are millimeters/单位: mm..
- Tolerance is +/-0.25mm unless otherwise noted/
没有标注的公差均为±0.25mm



Part No./型号: **130LB7C**

Absolute maximum ratings/极限参数 (Ta = 25°C)

| Parameter 参数 | Symbol 符号 | Test Condition 测试条件 | Values 数值 | | Unit 单位 |
|---------------------------------|-------------------|-------------------------|-----------|------|------------|
| | | | Min. | Max. | |
| Reverse Voltage 反向电压 | V _R | I _R = 30 μ A | 5 | -- | V |
| Forward Current 正向工作电流 | I _F | ---- | ---- | 30 | mA |
| Power Dissipation 损耗功率 | P _d | ---- | ---- | 80 | mW |
| Pulse Current 正向峰值电流 | I _{peak} | Duty=0.1mS, 1kHz | ---- | 100 | mA |
| Operating Temperature 工作温度范围 | T _{opr} | ---- | -40 | +85 | °C |
| Storage Temperature 储存温度范围 | T _{str} | ---- | -40 | +100 | °C |

➤ **Electrical and optical characteristics/光电参数 (Ta = 25°C)**

| Parameter 参数 | Symbol 符号 | Test Condition 测试条件 | Values 数值 | | | Unit 单位 |
|-----------------------------------|----------------|------------------------|-----------|---------|------|------------|
| | | | Min. | Typ. | Max. | |
| Forward Voltage 正向电压 | V _F | I _F = 20mA | ---- | 3.2 | 3.6 | V |
| Reverse Current 反向电流 | I _R | V _R = 5V | ---- | ---- | 30 | μ A |
| Dominate Wavelength 主波长 | λ _d | I _F = 20mA | ---- | 470 | ---- | nm |
| Peak Wavelength 峰值波长 | λ _p | I _F = 20mA | ---- | 468 | ---- | nm |
| Spectral Line half-width 半波长宽度 | Δ λ | I _F = 20mA | ---- | 25 | ---- | nm |
| Luminous Intensity 发光强度 | I _v | I _F = 20mA | ---- | V, W, X | ---- | mcd |



BIN ranking for LEDs

BRIGHTNESS BIN

| Bin Code | IV(mcd) | Bin Code | IV(mcd) | Bin Code | IV(mcd) | Bin Code | IV(mcd) |
|----------|-----------|----------|-----------|----------|-----------|----------|------------|
| A | 0-5.0 | H | 37.2-52.0 | Q | 390-550 | X | 4180--5860 |
| B | 5.0-7.0 | J | 52.0-72.8 | R | 550-770 | Y | 5860-8200 |
| C | 7.0-9.8 | K | 72.8-102 | S | 770-1100 | Z1 | 8-10cd |
| D | 9.8-13.7 | L | 102-145 | T | 1100-1520 | Z2 | 10-12cd |
| E | 13.7-19.0 | M | 145-200 | U | 1520-2130 | Z3 | 12-14cd |
| F | 19.0-26.6 | N | 200-280 | V | 2130-3000 | Z4 | 14-16cd |
| G | 26.6-37.2 | P | 280-390 | W | 3000-4180 | Z5 | 16-18cd |

WAVELENGTH BIN

| Ligth Col. | Bin Code | Wavel. (nm) | Ligth Col. | Bin Code | Wavel. (nm) | |
|-------------------|-------------------|-------------|---------------------|----------------------|-------------|---------|
| BLUE | B1 | 450-455 | YELLOW GREEN | YG1 | 555-558 | |
| | B2 | 455-460 | | YG2 | 558-561 | |
| | B3 | 460-465 | | YG3 | 561-564 | |
| | B4 | 465-470 | | YG4 | 564-567 | |
| | B5 | 470-475 | | YG5 | 567-570 | |
| | B6 | 475-480 | | YG6 | 570-573 | |
| BLUE GREEN | G1 | 491-494 | | YG7 | 573-576 | |
| | G2 | 494-497 | YELLOW | Y1 | 582-585 | |
| | G3 | 497-500 | | Y2 | 585-588 | |
| | G4 | 500-503 | | Y3 | 588-591 | |
| | G5 | 503-506 | | Y4 | 591-594 | |
| | G6 | 506-509 | | Y5 | 594-597 | |
| | PURE GREEN | G7 | 509-512 | YELLOW ORANGE | YO1 | 597-600 |
| | | G8 | 512-515 | | YO2 | 600-603 |
| G9 | | 515-518 | PURE ORANGE | YO3 | 603-606 | |
| G10 | | 518-521 | | YO4 | 606-609 | |
| G11 | | 521-524 | | RED | O1 | 609-612 |
| G12 | | 524-527 | O2 | | 612-615 | |
| G13 | | 527-530 | O3 | | 615-618 | |
| G14 | | 530-533 | R1 | | 618-621 | |
| G15 | | 533-536 | R2 | | 621-624 | |
| G16 | | 536-539 | R3 | | 624-627 | |
| G17 | | 539-542 | R4 | 627-630 | | |
| G18 | | 542-545 | R5 | 630-633 | | |
| G19 | | 545-548 | R6 | 633-636 | | |

FORWARD VOLTAGE (VF) BIN

| Bin Code | VF (V) | Bin Code | VF (V) | Bin Code | VF (V) | Bin Code | VF (V) |
|----------|---------|----------|---------|----------|---------|----------|---------|
| V1 | 1.6-1.8 | V5 | 2.4-2.6 | V9 | 3.2-3.4 | V13 | 4.0-4.2 |
| V2 | 1.8-2.0 | V6 | 2.6-2.8 | V10 | 3.4-3.6 | V14 | 4.2-4.4 |
| V3 | 2.0-2.2 | V7 | 2.8-3.0 | V11 | 3.6-3.8 | V15 | 4.4-4.6 |
| V4 | 2.2-2.4 | V8 | 3.0-3.2 | V12 | 3.8-4.0 | V16 | 4.6-4.8 |



Part No./型号: **130LB7C**

➤ Typical electrical/optical characteristic curves/光电特性曲线:

Fig.1 正向电流 Vs. 正向电压

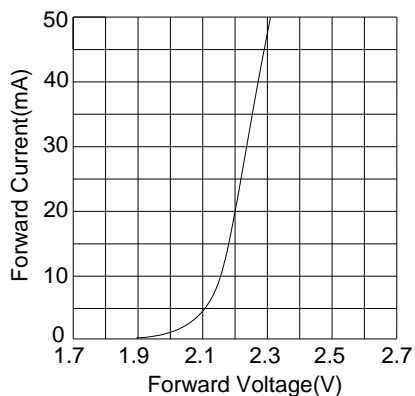


Fig.2 相对亮度 Vs. 正向电流

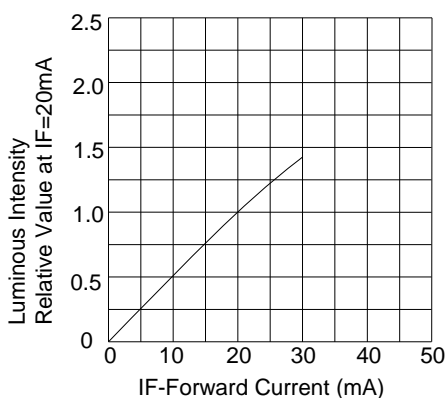


Fig.3 正向电流 Vs. 环境温度

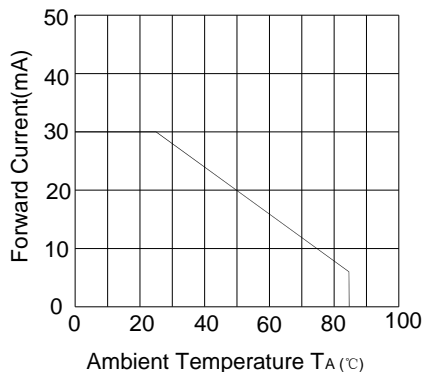


Fig.4 相对亮度 Vs. 环境温度

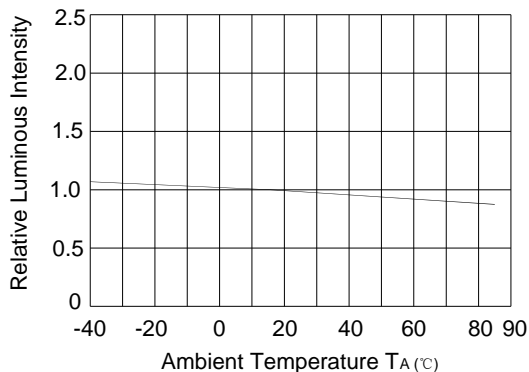


Fig.5 相对亮度 Vs. 波长

