



ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

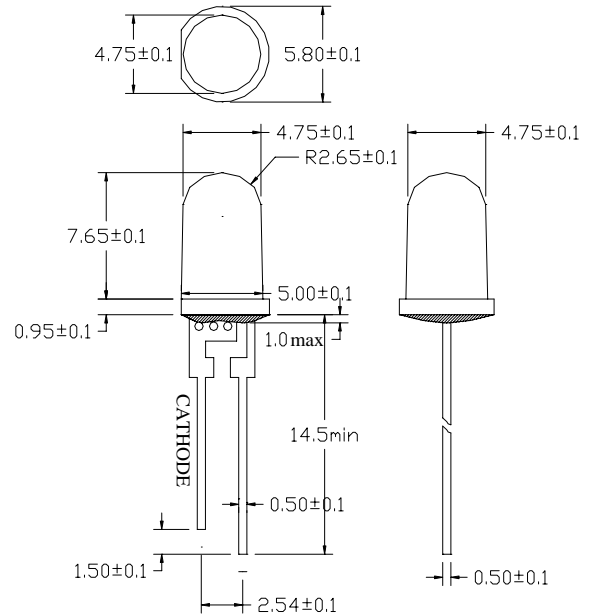
LED-020-75065

Features:

- Single color
- High bright output
- Medium power consumption
- High reliability and long life

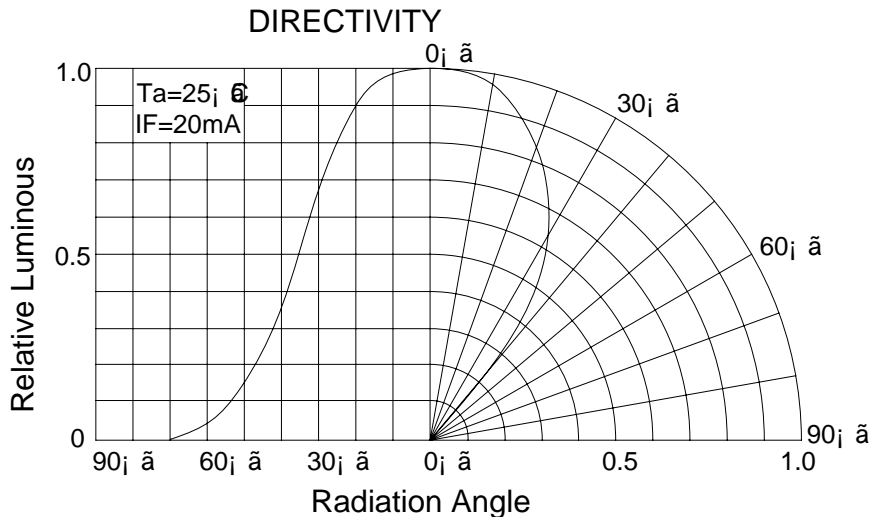
Descriptions:

- Dice material: GaInN
- Emitting Color: Super Bright White
- Device Outline: ϕ 5mm Round Type
- Lens Type: Water Clear



NOTE:

- All dimensions are millimetre
- Tolerance is ± 0.25 mm unless otherwise noted



LED SPECIFICATION

Absolute maximum ratings (Ta = 25°C)

| Parameter | Symbol | Test Condition | Value | | Unit |
|-----------------------|-------------------|-------------------------|-------|------|------|
| | | | Min. | Max. | |
| Reverse Voltage | V _R | I _R = 30 μ A | 5 | -- | V |
| Forward Current | I _F | ---- | ---- | 100 | mA |
| Power Dissipation | P _d | ---- | ---- | 4.8 | W |
| Pulse Current | I _{peak} | Duty=0.1mS, 1kHz | ---- | 200 | mA |
| Operating Temperature | T _{opr} | ---- | -20 | +85 | °C |
| Storage Temperature | T _{str} | ---- | -25 | +100 | °C |

Electrical and optical characteristics (Ta = 25°C)

| Parameter | Symbol | Test Condition | Value | | | Unit |
|-------------------|----------------|------------------------|-------|---------|------|------|
| | | | Min. | Typ. | Max. | |
| Forward Voltage | V _F | I _F = 100mA | | V10~V12 | | V |
| Reverse Current | I _R | V _R = 5V | ---- | ---- | 30 | μ A |
| Luminous Flux | Φ _v | I _F = 100mA | | N,AE,AF | | lm |
| Viewing Angle | 2 θ 1/2 | I _F = 100mA | 70 | | 90 | Deg. |
| Color Temperature | CCT | I _F = 100mA | W3~W8 | | | |
| | | | | | | |

LED SPECIFICATION

COLOR TEMPERATURE BIN

| Bin Code | C Temp (K) | Bin Code | C Temp (K) |
|----------|------------|----------|-------------|
| W0 | <3000 | W6 | 6000~7000 |
| W1 | 3000~3500 | W7 | 7000~8000 |
| W2 | 3500~4000 | W8 | 8000~10000 |
| W3 | 4000~4500 | W9 | 10000~15000 |
| W4 | 4500~5000 | W10 | 15000~20000 |
| W5 | 5000~6000 | W00 | >20000 |

FLUX BIN

| Bin Code | Lumens | Bin Code | Lumens |
|----------|-----------|----------|----------|
| A | <0.46 | M | 6.0~7.8 |
| B | 0.46~0.60 | N | 7.8~10.0 |
| C | 0.60~0.77 | AE | 10~13 |
| D | 0.77~1.0 | AF | 13~17 |
| E | 1.0~1.3 | AG | 17~22 |
| F | 1.3~1.7 | AH | 22~28 |
| G | 1.7~2.2 | AJ | 28~36 |
| H | 2.2~2.8 | AK | 36~47 |
| J | 2.8~3.6 | AL | 47~60 |
| K | 3.6~4.7 | AM | 60~78 |
| L | 4.7~6.0 | AN | 78~100 |

FORWARD VOLTAGE (VF) BIN

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

LED SPECIFICATION

