

Features:

- Highest Flux
- High reliability and Very long operating life
- Low voltage DC operated
- More Energy Efficient than Incandescent and most Halogen lamps
- NO UV
- Superior ESD protection
- RoHS Compliant

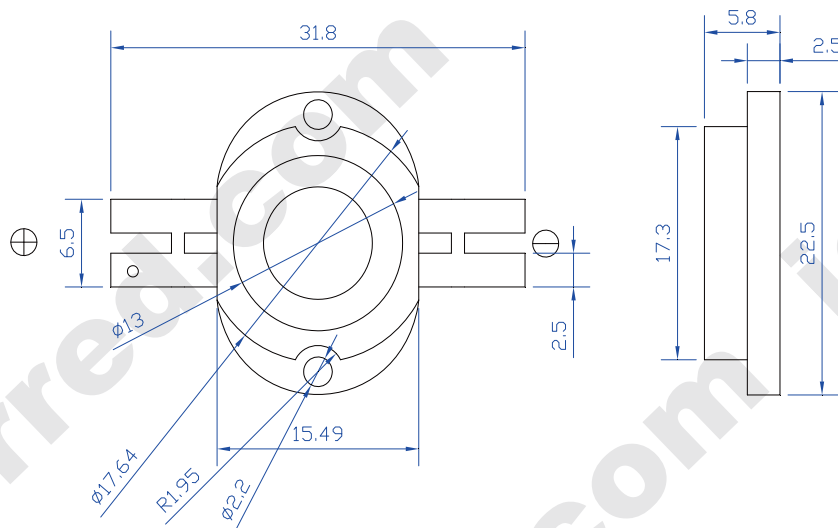


ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Typical Applications:

- Lighting
- Portable
- Automobile
- Decorations



NOTE:

- All dimensions are millimeter.
- Tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.
- It is strongly recommended that the temperature of lead be not higher than 60°C .
- The appearance and specifications of the product may be modified for improvement without notice.



Part No.: E05WY120C

Absolute maximum ratings (Ta = 25°C)

| Parameter | Symbol | Test Condition | Value | | Unit |
|--------------------------|--------|------------------|-------------------------|------|------|
| | | | Min. | Max. | |
| DC Forward Current | IF | ---- | ---- | 850 | mA |
| Peak Pulse Current | Ipeak | Duty=0.1mS, 1kHz | ---- | 1400 | mA |
| Power Dissipation | Pd | ---- | ---- | 5 | W |
| LED Junction Temperature | Tj | ---- | ---- | 120 | °C |
| Operating Temperature | Topr | ---- | -25 | +80 | °C |
| Storage Temperature | Tstr | ---- | -40 | +100 | °C |
| ESD Sensitivity | ---- | HBM | 8000 | ---- | V |
| Soldering Temperature | ---- | ---- | 260°C for 5 Seconds max | | |

Electrical and optical characteristics (Ta = 25°C)

| Parameter | Symbol | Test Condition | Value | | | Unit |
|---------------------|--------|----------------|-------|------|------|------|
| | | | Min. | Typ. | Max. | |
| Forward Voltage | VF | IF = 700mA | 5.0 | 5.2 | 6.0 | V |
| Luminous Flux | Φv | | ---- | 150 | ---- | lm |
| Viewing Angle | 2θ 1/2 | | ---- | 120 | ---- | Deg. |
| Dominant Wavelength | λd | | 585 | ---- | 595 | nm |

Luminous Flux Bins (Ta = 25°C)

Unit: lm

| Bin | P | Q | R | S |
|-----|-----|-----|-----|-----|
| Min | 120 | 140 | 160 | 180 |
| Max | 140 | 160 | 180 | 200 |

Note

1. Flux is measured with an accuracy of ±15%
2. CCT is measured with an accuracy of ± 200K
3. Dominant Wavelength is measured with an accuracy of ± 1.5nm
4. Forward Voltage is measured with an accuracy of ± 0.15V