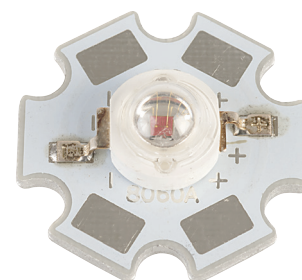


Features:

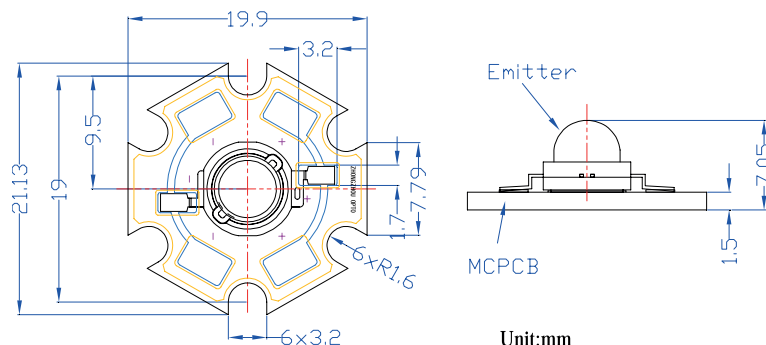
- Highest luminous flux
- Super energy efficiency
- Long lifetime operation
- Superior ESD protection
- Superior UV resistance

Applications

- Electronic signs and signals
- Small area illuminations
- Back lighting
- Other lighting
- Bollards/security/garden
- Traffic signaling/beacons



Outline dimensions:

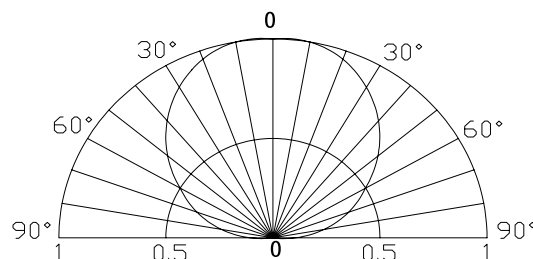


Unit:mm
Tolerance: ±0.30mm

Absolute maximum rating (Ta=25°C)

| Item | Symbol | Value | | Unit |
|----------------------------|-----------|------------|------|------|
| | | W/M/B/G | R | |
| DC forward current | I_F | 800 | 800 | mA |
| Pulse forward current* | I_{FP} | 1000 | 1000 | mA |
| Reverse voltage | V_R | 5 | 5 | V |
| Power dissipation | P_D | 3200 | 2400 | mW |
| Operating temperature | T_{opr} | -40 to +85 | | °C |
| Storage temperature | T_{stg} | -40 to +85 | | °C |
| Lead soldering temperature | T_{sol} | 260°C/5sec | | - |

Directivity:



*Pulse width max. 10ms. Duty ratio max. 1/10

Electrical - Optical characteristics (Ta=25°C)

| Order code | MPN | Colour | | V_F (V) | | | I_R (μ A) | V (lm)* | | | λ_D (nm)* | | | $2\theta_{1/2}$ (deg) |
|------------|-------------|------------|---|--------------------|------|------|------------------|--------------------|------|------|-------------------|------|------|-----------------------|
| | | | | Min. | Typ. | Max. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| | | | | $I_F=700\text{mA}$ | | | $V_R=5\text{V}$ | $I_F=700\text{mA}$ | | | | | | |
| 55-2249 | OSW4XME3C1S | White | W | 3.00 | 3.3 | 4.0 | 10 | 180 | 200 | - | X=0.31, Y=0.33 | 120 | | |
| 55-2251 | OSM5XME3C1S | Warm White | M | 3.00 | 3.3 | 4.0 | 10 | 160 | 180 | - | X=0.45, Y=0.41 | 120 | | |
| 55-2253 | OSB5XME3C1S | Blue | B | 3.00 | 3.3 | 4.0 | 10 | 20 | 30 | - | 465 470 475 | 120 | | |
| 55-2257 | OSG5XME3C1S | Pure Green | G | 3.00 | 3.3 | 4.0 | 10 | 120 | 130 | - | 520 525 530 | 120 | | |
| 55-2255 | OSR5XME3C1S | Red | R | 2.0 | 2.5 | 3.0 | 10 | 70 | 80 | - | 620 625 630 | 120 | | |

Note: *1. Tolerance of chromaticity coordinates is ±10%

*2. Dominant wavelength tolerance: ±1nm

*3. Tolerance of luminous Flux is ±15%