

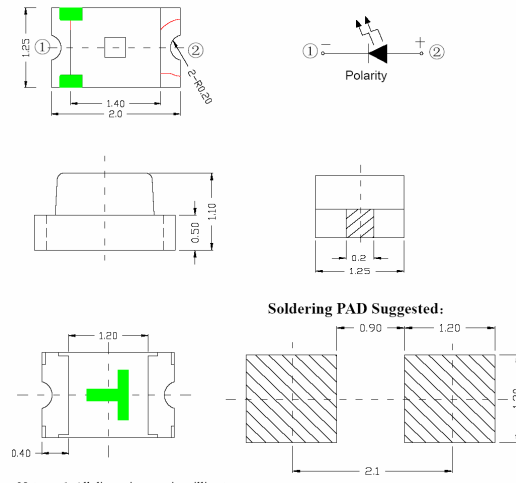
■Features

- Single chip
- 2.0x1.25x1.0mm(0805) standard package.
- Suitable for all SMT assembly methods.
- Compatible with infrared and vapor phase reflow solder process.
- This product doesn't contain restriction Substance, comply ROHS standard.
- Compatible with automatic placement equipment.

■Applications

- Automotive : Dashboards, stop lamps, turn signals.
- Backlighting : LCDs, Key pads advertising.

■Outline Dimension



Notes: 1. All dimensions are in millimeters ;
2. Tolerance is ± 0.10 mm unless otherwise noted.

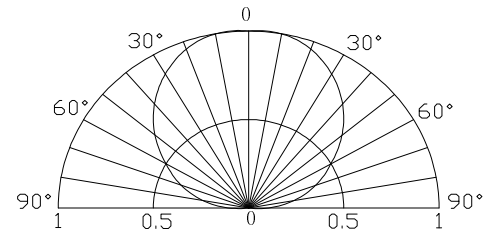
■Absolute Maximum Rating

(Ta=25°C)

| Item | Symbol | Value | | Unit |
|----------------------------|-----------|------------|-----------|------|
| | | WT/MT /BL | HR/YG /YL | |
| DC Forward Current | I_F | 30 | 30 | mA |
| Pulse Forward Current* | I_{FP} | 100 | 100 | mA |
| Reverse Voltage | V_R | 5 | 5 | V |
| Power Dissipation | P_D | 108 | 78 | mW |
| Operating Temperature | T_{opr} | -40 ~ +85 | | °C |
| Storage Temperature | T_{stg} | -40~ +85 | | °C |
| Lead Soldering Temperature | T_{sol} | 260°C/5sec | | - |

*Pulse width Max 0.1ms, Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

| Part Number | Color | | V_F (V) | | | I_R (μ A) | I_v (mcd) | | | λD (nm) | | | 2 θ 1/2(deg) |
|-------------|--------------|----|-------------|------|------|------------------|-------------|------|------|------------------|------|------|---------------------|
| | | | Min. | Typ. | Max. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| | | | $I_F=20$ mA | | | $V_R=5$ V | $I_F=20$ mA | | | | | | |
| OSW50805C1C | White | W5 | - | 3.3 | 3.6 | 100 | 350 | 450 | - | X:0.29, Y:0.29 | | | 120 |
| OSM50805C1C | Warm White | M5 | - | 3.3 | 3.6 | 100 | 350 | 450 | - | X:0.44, Y:0.41 | | | 120 |
| OSB50805C1C | Blue | B5 | - | 3.2 | 3.6 | 100 | 42 | 80 | - | 460 | 465 | 475 | 120 |
| OSG50805C1C | True green | G5 | - | 3.3 | 3.6 | 100 | 400 | 450 | - | 520 | 525 | 530 | 120 |
| OSG80805C1C | Yellow green | G8 | - | 2.0 | 2.6 | 100 | 20 | 35 | - | 564 | 570 | 578 | 120 |
| OSY50805C1C | Yellow | Y5 | - | 2.1 | 2.6 | 100 | 100 | 120 | - | 585 | 590 | 595 | 120 |
| OSO50805C1C | Orange | O5 | - | 2.0 | 2.6 | 100 | 100 | 120 | - | 600 | 605 | 610 | 120 |
| OSR50805C1C | Red | R5 | - | 2.0 | 2.6 | 100 | 120 | 150 | - | 620 | 625 | 630 | 120 |

Note: * V_f tolerance: ± 0.05 V * Dominant wavelength tolerance: ± 1 nm

* Luminous intensity tolerance: $\pm 10\%$