

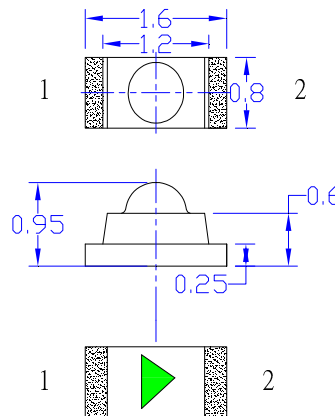
■ **Features**

- Single chip
- Super high brightness of surface mount LED
- Compact package outline
(LxWxT) of 1.6mm x 0.8mm x 0.95mm
- Compatible to IR reflow soldering.

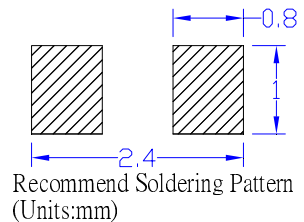
■ **Applications**

- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)

■ **Outline Dimension**



1. Anode  2. Cathode



Unit:mm
Tolerance:±0.2

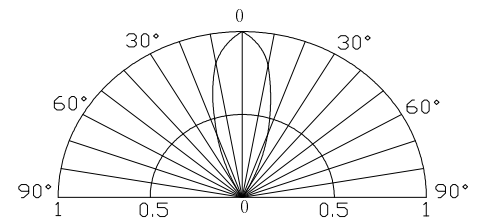
■ **Absolute Maximum Rating**

(Ta=25°C)

| Item | Symbo l | Value | | Unit |
|----------------------------|------------------|------------|-------------|------|
| | | B5/G5 | G8/Y5/O5/R5 | |
| DC Forward Current | I _F | 30 | 25 | mA |
| Pulse Forward Current* | I _{FP} | 100 | 80 | mA |
| Reverse Voltage | V _R | 5 | 5 | V |
| Power Dissipation | P _D | 102 | 60 | 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 (μA) | I _v (mcd) | | | λ _D (nm) | | | 2θ1/2(deg) |
|-------------|--------------|----|---|----------------------|------|------|---------------------|----------------------|------|----------------------|---------------------|------|------|------------|
| | | | | Min. | Typ. | Max. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| | | | | I _F =20mA | | | V _R =5V | | | I _F =20mA | | | | |
| OSB5060341F | Blue | B5 |  | 2.8 | 3.1 | 3.4 | 10 | 150 | 350 | - | 460 | 465 | 470 | 35 |
| OSG5060341F | True Green | G5 |  | 2.8 | 3.1 | 3.4 | 10 | 1300 | 2500 | - | 518 | 521 | 526 | 35 |
| OSG8060341F | Yellow green | G8 |  | 1.8 | 2.1 | 2.4 | 10 | 70 | 150 | - | 565 | 570 | 575 | 35 |
| OSY5060341F | Yellow | Y5 |  | 1.8 | 2.1 | 2.4 | 10 | 200 | 400 | - | 585 | 590 | 595 | 35 |
| OSO5060341F | Orange | O5 |  | 1.8 | 2.1 | 2.4 | 10 | 200 | 400 | - | 600 | 605 | 610 | 35 |
| OSR5060341F | Red | R5 |  | 1.8 | 2.1 | 2.4 | 10 | 200 | 400 | - | 617 | 621 | 625 | 35 |

*1 Tolerance of measurements of chromaticity coordinate is ±10%

*2 Tolerance of measurements of dominant wavelength is ±1nm

*3 Tolerance of measurements of luminous intensity is ±15%

*4 Tolerance of measurements of forward voltage is ±0.1V

■ **Cautions:**

1. After open the package, the LED's floor life is 1 year under 30°C or less and 60%RH or less (MSL:2).
2. Heat generation must be taken into design consideration when using the LED.
3. Power must be applied resistors for protection, over current would be caused the optic damage to the devices and wavelength shift.
4. Manual tip solder may cause the damage to Chip devices, so advised that heat of iron should be lower than 15W with temperature control under 5 seconds at 230-260 deg. C. (The device would be got damage in re working process, recommended under 5 seconds at 230-260 deg. C)
5. All equipment and machinery must be properly grounded. It is recommended to use a wristband or anti-electrostatic glove when handing the LED.
6. Use IPA as a solvent for cleaning the LED. The other solvent may dissolve the LED package and the epoxy, Ultrasonic cleaning should not be done.
7. Damaged LED will show unusual characteristics such as leak current remarkably increase, turn-on voltage becomes lower and the LED get unlight at low current.
8. OPTOSUPPLY will not do 4M change without advance consultation.