

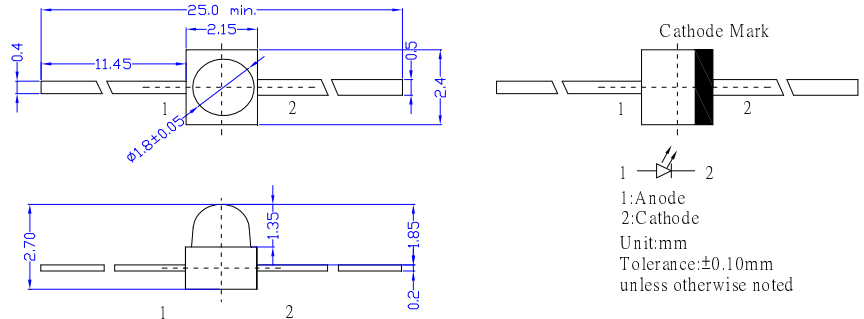
■Features

- Small double-end package
- 1.8mm Standard Directivity
- Good spectral matching to Si photodetector
- Water Clear Type

■Applications

- Optoelectronic switch
- Floppy disk drive
- Infrared emitting for miniature light barrier
- Smoke detector
- Others

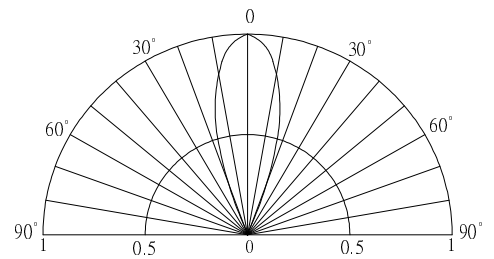
■Outline Dimension



■Absolute Maximum Rating (Ta=25°C)

| Item | Symbol | Value | | Unit |
|----------------------------|------------------|------------|----------|------|
| | | W/B/PG | YG/Y/R/O | |
| 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} | -30 ~ +85 | | °C |
| Storage Temperature | T _{stg} | -40~ +100 | | °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)

| Part Number | Color | | V _F (V) | | | I _R (μA) | I _v (mcd)* | | | λD(nm)* | | | 2θ1/2(deg) |
|-------------|--------------|----|----------------------|------|------|---------------------|-----------------------|-------|------|---------|------|------|------------|
| | | | Min. | Typ. | Max. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| | | | I _F =20mA | | | V _R =5V | I _F =20mA | | | | | | |
| OSB4212411C | Blue | B | 2.8 | 3.1 | 3.6 | 10 | 1500 | 2500 | - | 455 | 460 | 465 | 10 |
| OSG5212411C | Pure Green | PG | 2.8 | 3.1 | 3.6 | 10 | 10000 | 12000 | - | 515 | 520 | 525 | 10 |
| OSG8212411C | Yellow Green | YG | 1.8 | 2.1 | 2.6 | 10 | 500 | 750 | - | 565 | 570 | 575 | 10 |
| OSY5212411C | Yellow | Y | 1.8 | 2.1 | 2.6 | 10 | 2000 | 3000 | - | 585 | 590 | 595 | 10 |
| OSO5212411C | Orange | O | 1.8 | 2.1 | 2.6 | 10 | 2000 | 3000 | - | 600 | 605 | 610 | 10 |
| OSR5212411C | Red | R | 1.8 | 2.1 | 2.6 | 10 | 3500 | 4500 | - | 620 | 625 | 630 | 10 |

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

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

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