

■Features

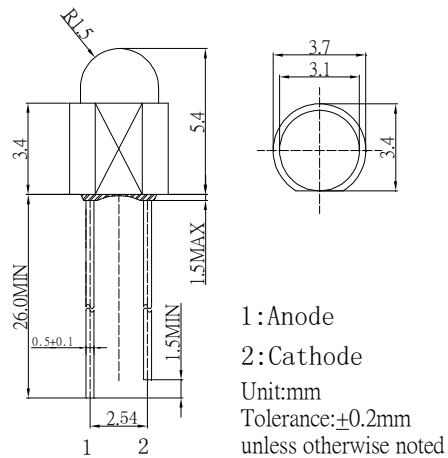
- High Luminous LEDs
- 3mm Tower Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Color Transparent Type/ Color Diffused Type

• Rohm:343 Series

■Applications

- General Purpose Indicators
- Small Area Illuminations
- Back Lighting
- Other Lighting

■Outline Dimension



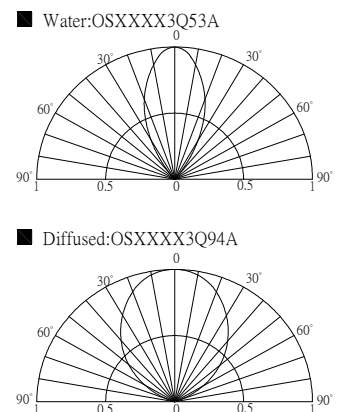
■Absolute Maximum Rating

(Ta=25°C)

| Item | Symbol | Value | | Unit |
|----------------------------|-----------------|------------|----------|------|
| | | W/M/PG/B | YG/Y/O/R | |
| 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 | Topr | -30~ +85 | | °C |
| Storage Temperature | Tstg | -40 ~ +100 | | °C |
| Lead Soldering Temperature | Tsol | 260°C/5sec | | - |

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

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

| Part Number | Color | | V _F (V) | | | I _R (μA) | I _v (mcd) | | | Wd(nm)* | | | 2θ1/2(deg) |
|-------------|--------------|----|----------------------|------|------|---------------------|----------------------|----------------------|------|---------------|------|------|------------|
| | | | Min. | Typ. | Max. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| | | | I _F =20mA | | | V _R =5V | | I _F =20mA | | | | | |
| OSW4YK3Q51A | White | W | 2.8 | 3.1 | 3.6 | 10 | 4200 | 5800 | - | X:0.31,Y:0.33 | | | 50 |
| OSM5YK3Q51A | Warm White | M | 2.8 | 3.1 | 3.6 | 10 | 3000 | 4200 | - | X:0.45,Y:0.41 | | | 50 |
| OSB5YU3Q53A | Blue | B | 2.8 | 3.1 | 3.6 | 10 | 1120 | 1560 | - | 465 | 470 | 475 | 50 |
| OSG5TA3Q53A | Pure Green | PG | 2.8 | 3.1 | 3.6 | 10 | 3000 | 4200 | - | 520 | 525 | 530 | 50 |
| OSG8NU3Q53A | Yellow Green | YG | 1.8 | 2.1 | 2.6 | 10 | 100 | 150 | - | 565 | 570 | 575 | 50 |
| OSY5LU3Q53A | Yellow | Y | 1.8 | 2.1 | 2.6 | 10 | 220 | 330 | - | 585 | 590 | 595 | 50 |
| OSY5JA3Q53A | Yellow | Y | 1.8 | 2.1 | 2.6 | 10 | 330 | 500 | - | 585 | 590 | 595 | 50 |












*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

Electrical -Optical Characteristics (Ta=25°C)

| Part Number | Color | | | V _F (V) | | | I _R (μA) | I _v (mcd) | | | Wd (nm)* | | | 2θ1/2(deg) |
|-------------|--------------|----|---|----------------------|------|------|---------------------|----------------------|------|----------------------|---------------|------|------|------------|
| | | | | Min. | Typ. | Max. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| | | | | I _F =20mA | | | V _R =5V | | | I _F =20mA | | | | |
| OSO5JA3Q53A | Orange | O |  | 1.8 | 2.1 | 2.6 | 10 | 330 | 500 | - | 600 | 605 | 610 | 50 |
| OSR5JA3Q53A | Red | R |  | 1.8 | 2.1 | 2.6 | 10 | 330 | 500 | - | 620 | 625 | 630 | 50 |
| OSR6LU3Q53A | Red | R |  | 1.8 | 2.1 | 2.6 | 10 | 100 | 150 | - | 630 | 640 | 650 | 50 |
| OSW4YK3Q92A | White | W |  | 2.8 | 3.1 | 3.6 | 10 | 1120 | 1560 | - | X:0.31,Y:0.33 | | | 90 |
| OSM5YK3Q92A | Warm White | M |  | 2.8 | 3.1 | 3.6 | 10 | 750 | 1120 | - | X:0.45,Y:0.41 | | | 90 |
| OSB5YU3Q94A | Blue | B |  | 2.8 | 3.1 | 3.6 | 10 | 150 | 220 | - | 465 | 470 | 475 | 90 |
| OSG5TA3Q94A | Pure Green | PG |  | 2.8 | 3.1 | 3.6 | 10 | 750 | 1120 | - | 520 | 525 | 530 | 90 |
| OSG8NU3Q94A | Yellow Green | YG |  | 1.8 | 2.1 | 2.6 | 10 | 30 | 45 | - | 565 | 570 | 575 | 90 |
| OSY5LU3Q94A | Yellow | Y |  | 1.8 | 2.1 | 2.6 | 10 | 68 | 100 | - | 585 | 590 | 595 | 90 |
| OSY5JA3Q94A | Yellow | Y |  | 1.8 | 2.1 | 2.6 | 10 | 100 | 150 | - | 585 | 590 | 595 | 90 |
| OSO5JA3Q94A | Orange | O |  | 1.8 | 2.1 | 2.6 | 10 | 100 | 150 | - | 600 | 605 | 610 | 90 |
| OSR5JA3Q94A | Red | R |  | 1.8 | 2.1 | 2.6 | 10 | 100 | 150 | - | 620 | 625 | 630 | 90 |
| OSR6LU3Q94A | Red | R |  | 1.8 | 2.1 | 2.6 | 10 | 68 | 100 | - | 630 | 640 | 650 | 90 |

- *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