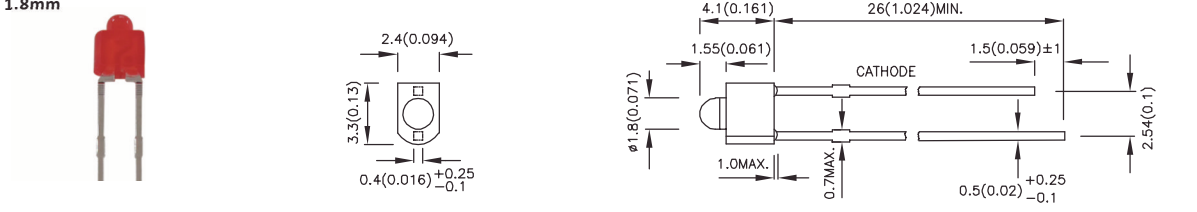


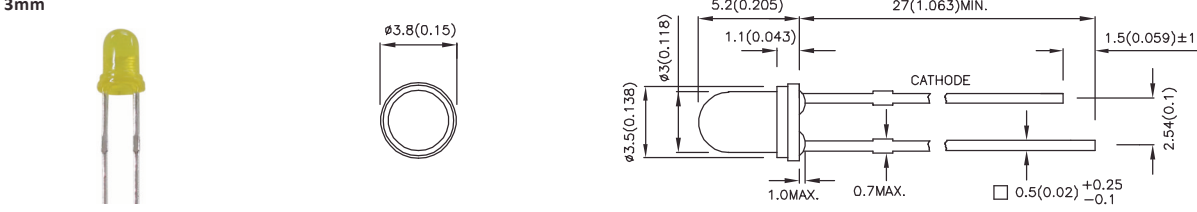
| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _v =20mA,10mA* | | Viewing Angle 2θ1/2 | Lens |
|-------------|-----------------------------------|------------|--|------|------------------------|------|
| | | | Min. | Typ. | | |

1.8mm



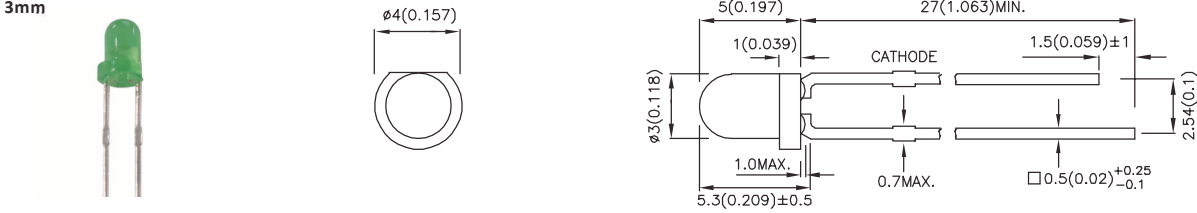
| | | | | | | |
|----------|---------------------|-----|----|-----|-----|-----------------|
| LUR61D-A | ◆ GaAsP/GaP(Red) | 627 | *4 | *7 | 70° | Red Diffused |
| LUY61D-A | ◆ GaAsP/GaP(Yellow) | 590 | *4 | *7 | 70° | Yellow Diffused |
| LUG61D-A | ◆ GaP(Green) | 565 | *6 | *11 | 70° | Green Diffused |

3mm



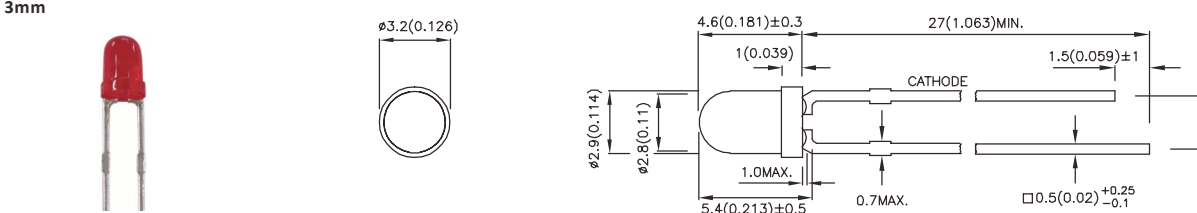
| | | | | | | |
|--------|---------------------|-----|-----|-----|-----|-----------------|
| LUR65D | ◆ GaAsP/GaP(Red) | 627 | *8 | *15 | 60° | Red Diffused |
| LUY65D | ◆ GaAsP/GaP(Yellow) | 590 | *6 | *14 | 60° | Yellow Diffused |
| LUG65D | ◆ GaP(Green) | 565 | *15 | *24 | 60° | Green Diffused |

3mm



| | | | | | | |
|--------|---------------------|-----|-----|-----|-----|-----------------|
| LUR34D | ◆ GaAsP/GaP(Red) | 627 | *6 | *14 | 60° | Red Diffused |
| LUY34D | ◆ GaAsP/GaP(Yellow) | 590 | *8 | *14 | 60° | Yellow Diffused |
| LUG34D | ◆ GaP(Green) | 565 | *12 | *24 | 60° | Green Diffused |

3mm



| | | | | | | |
|--------|---------------------|-----|-----|-----|-----|-----------------|
| LUR11D | ◆ GaAsP/GaP(Red) | 627 | *10 | *19 | 50° | Red Diffused |
| LUY11D | ◆ GaAsP/GaP(Yellow) | 590 | *8 | *14 | 50° | Yellow Diffused |
| LUG11D | ◆ GaP(Green) | 565 | *10 | *24 | 50° | Green Diffused |

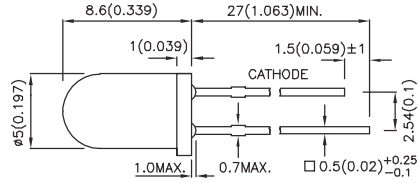
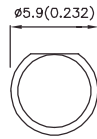
| | | | | | | |
|-----------|-------------------|-----|------|-------|-----|-----------------|
| LM2MR11D | ◆ AlGaInP(Red) | 660 | 200 | 497 | 50° | Red Diffused |
| LM2MR11W | ◆ AlGaInP(Red) | 660 | 750 | 1495 | 30° | Water Clear |
| LMDK11D | ◆ AlGaInP(Red) | 645 | 120 | 238 | 50° | Red Diffused |
| LMDK11W | ◆ AlGaInP(Red) | 645 | 400 | 895 | 30° | Water Clear |
| LM2CRK11W | ◆ AlGaInP(Red) | 640 | 1300 | 2490 | 30° | Water Clear |
| LMOK11W | ◆ AlGaInP(Orange) | 610 | 700 | 1395 | 30° | Water Clear |
| LM2MOK11W | ◆ AlGaInP(Orange) | 611 | 4200 | 6990 | 30° | Water Clear |
| LMYK11D | ◆ AlGaInP(Yellow) | 590 | 400 | 795 | 50° | Yellow Diffused |
| LMYK11W | ◆ AlGaInP(Yellow) | 590 | 650 | 1145 | 30° | Water Clear |
| LM2CYK11W | ◆ AlGaInP(Yellow) | 590 | 1600 | 2590 | 30° | Water Clear |
| LDGK11W | ◆ InGaN(Green) | 515 | 5000 | 7990 | 30° | Water Clear |
| LM2DG11W | ◆ InGaN(Green) | 520 | 8000 | 13990 | 30° | Water Clear |
| LCBD11D | ◆ InGaN(Blue) | 460 | 480 | 995 | 50° | Blue Diffused |
| LCBD11W | ◆ InGaN(Blue) | 460 | 900 | 1590 | 30° | Water Clear |
| LFBB11W | ◆ InGaN(Blue) | 465 | 2100 | 3690 | 30° | Water Clear |

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

THRU-HOLE LEDs ROUND

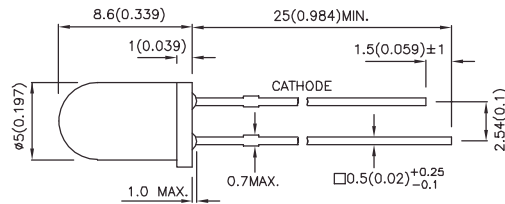
| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _v =20mA,10mA* | | Viewing Angle 2θ1/2 | Lens |
|-------------|-----------------------------------|------------|--|------|------------------------|------|
| | | | Min. | Typ. | | |

5mm



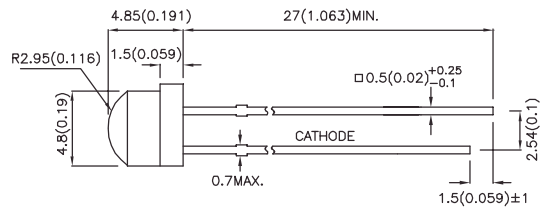
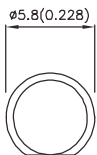
| | | | | | | |
|-----------|---------------------|-----|-------|-------|-----|-----------------|
| LUR12D | ◆ GaAsP/GaP(Red) | 627 | *18 | *39 | 30° | Red Diffused |
| LUY12D | ◆ GaAsP/GaP(Yellow) | 590 | *10 | *24 | 30° | Yellow Diffused |
| LUG12D | ◆ GaP(Green) | 565 | *15 | *29 | 30° | Green Diffused |
| LM2MR12D | ◆ AlGaInP(Red) | 660 | 300 | 597 | 30° | Red Diffused |
| LM2MR12W | ◆ AlGaInP(Red) | 660 | 900 | 1790 | 20° | Water Clear |
| LMDK12D | ◆ AlGaInP(Red) | 645 | 300 | 647 | 30° | Red Diffused |
| LMDK12W | ◆ AlGaInP(Red) | 645 | 900 | 1295 | 20° | Water Clear |
| LM2CRK12W | ◆ AlGaInP(Red) | 640 | 3600 | 5990 | 20° | Water Clear |
| LMOK12W | ◆ AlGaInP(Orange) | 610 | 1300 | 2090 | 20° | Water Clear |
| LM2MOK12W | ◆ AlGaInP(Orange) | 611 | 4500 | 6990 | 20° | Water Clear |
| LMYK12D | ◆ AlGaInP(Yellow) | 590 | 600 | 995 | 30° | Yellow Diffused |
| LMYK12W | ◆ AlGaInP(Yellow) | 590 | 1800 | 2990 | 20° | Water Clear |
| LM2CYK12W | ◆ AlGaInP(Yellow) | 590 | 4000 | 5990 | 20° | Water Clear |
| LDGK12W | ◆ InGaN(Green) | 515 | 7000 | 11990 | 20° | Water Clear |
| LM2DG12W | ◆ InGaN(Green) | 520 | 12000 | 18990 | 20° | Water Clear |
| LCBD12D | ◆ InGaN(Blue) | 460 | 600 | 995 | 30° | Blue Diffused |
| LCBD12W | ◆ InGaN(Blue) | 460 | 1900 | 3590 | 20° | Water Clear |
| LFBB12W | ◆ InGaN(Blue) | 465 | 3500 | 5990 | 20° | Water Clear |

5mm Round



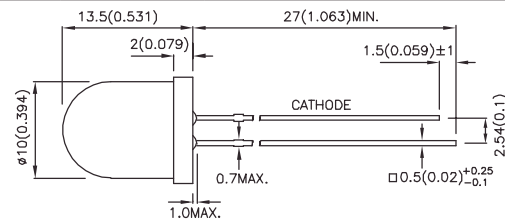
| | | | | | | |
|-----------|-------------------|-----|------|-------|-----|-------------|
| LM2CRK14W | ◆ AlGaInP(Red) | 640 | 1500 | 2890 | 30° | Water Clear |
| LM2CYK14W | ◆ AlGaInP(Yellow) | 590 | 1700 | 2890 | 30° | Water Clear |
| LM2DG14W | ◆ InGaN(Green) | 520 | 5500 | 11990 | 30° | Water Clear |
| LFBB14W | ◆ InGaN(Blue) | 465 | 1500 | 2990 | 30° | Water Clear |

5mm Round



| | | | | | | |
|------------|-------------------|-----|------|------|------|-------------|
| LM2CRK169W | ◆ AlGaInP(Red) | 640 | 300 | 597 | 130° | Water Clear |
| LM2CYK169W | ◆ AlGaInP(Yellow) | 590 | 300 | 597 | 130° | Water Clear |
| LM2DG169W | ◆ InGaN(Green) | 520 | 1900 | 2590 | 70° | Water Clear |
| LFBB169W | ◆ InGaN(Blue) | 465 | 500 | 1095 | 70° | Water Clear |

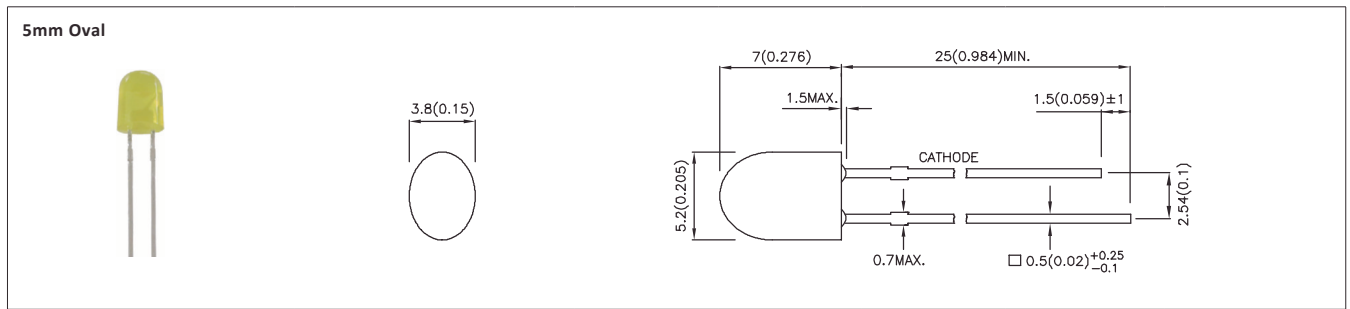
10mm



| | | | | | | |
|---------|---------------------|-----|-----|-----|-----|-----------------|
| LUR01D | ◆ GaAsP/GaP(Red) | 627 | 36 | 79 | 30° | Red Diffused |
| LMR01DE | ◆ GaAlAs(Red) | 655 | 120 | 198 | 30° | Red Diffused |
| LUY01D | ◆ GaAsP/GaP(Yellow) | 590 | 18 | 49 | 30° | Yellow Diffused |
| LUG01D | ◆ GaP(Green) | 565 | 20 | 59 | 30° | Green Diffused |

1. Dimension Unit: mm(inches). Tolerance: ±0.25mm (0.01").
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

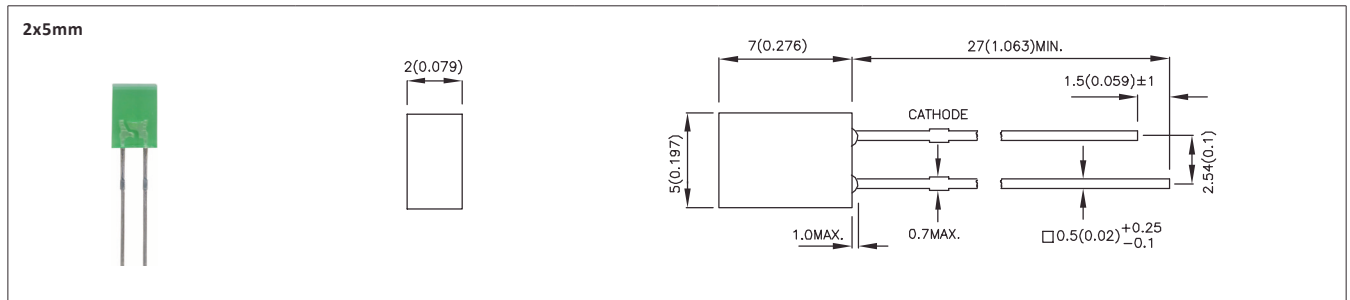
| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _f =20mA | | Viewing Angle 2θ1/2 | Lens |
|-------------|--------------------------------|------------|--|------|------------------------|------|
| | | | Min. | Typ. | | |



| | | | | | | |
|-----------------|-------------------|-----|------|------|--------------|----------------------|
| LM2CRK20DLSDLCR | ◆ AlGaInP(Red) | 640 | 500 | 995 | 80°(H)40°(V) | Red Semi Diffused |
| LM2CYK20DLSDLCR | ◆ AlGaInP(Yellow) | 590 | 500 | 1395 | 80°(H)40°(V) | Yellow Semi Diffused |
| LDGK20DLSDLCR | ◆ InGaN(Green) | 515 | 1500 | 2590 | 80°(H)40°(V) | Green Semi Diffused |
| LFBB20DLSDLCR | ◆ InGaN(Blue) | 465 | 700 | 1195 | 80°(H)40°(V) | Blue Semi Diffused |
| LM2CRK20W | ◆ AlGaInP(Red) | 640 | 1300 | 2490 | 70°(H)30°(V) | Water Clear |
| LM2CYK20W | ◆ AlGaInP(Yellow) | 590 | 1600 | 2590 | 70°(H)30°(V) | Water Clear |
| LDGK20W | ◆ InGaN(Green) | 515 | 2300 | 3590 | 70°(H)30°(V) | Water Clear |
| LFBB20W | ◆ InGaN(Blue) | 465 | 1600 | 2190 | 70°(H)30°(V) | Water Clear |

RECTANGULAR

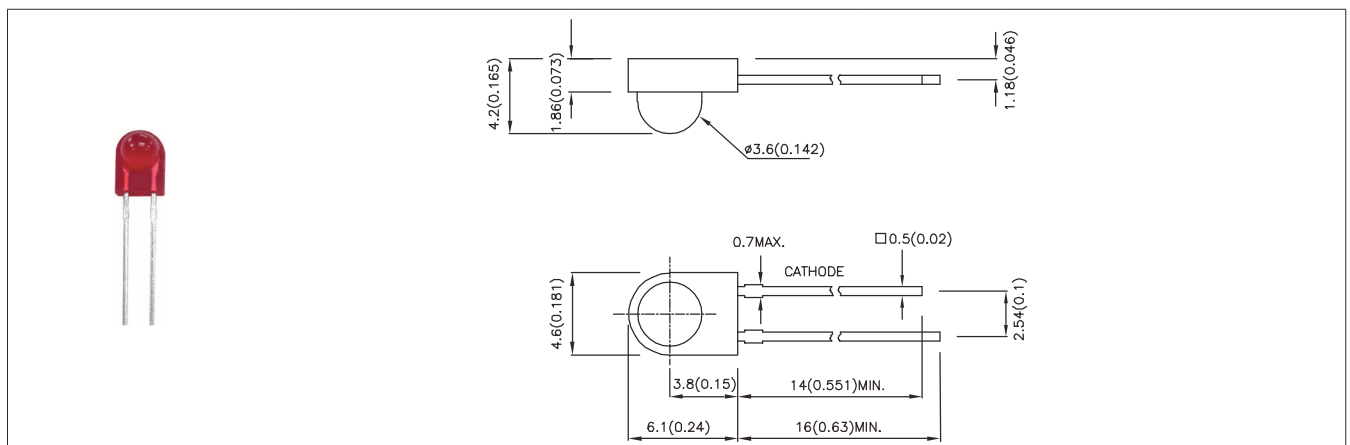
| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _f =10mA | | Viewing Angle 2θ1/2 | Lens |
|-------------|--------------------------------|------------|--|------|------------------------|------|
| | | | Min. | Typ. | | |



| | | | | | | |
|--------|---------------------|-----|-----|-----|------|-----------------|
| SUR18D | ◆ GaAsP/GaP(Red) | 627 | 2 | 3.8 | 140° | Red Diffused |
| SUY18D | ◆ GaAsP/GaP(Yellow) | 590 | 1.2 | 3.8 | 140° | Yellow Diffused |
| SUG18D | ◆ GaP(Green) | 565 | 1.2 | 4.8 | 140° | Green Diffused |

SIDE EMITTING

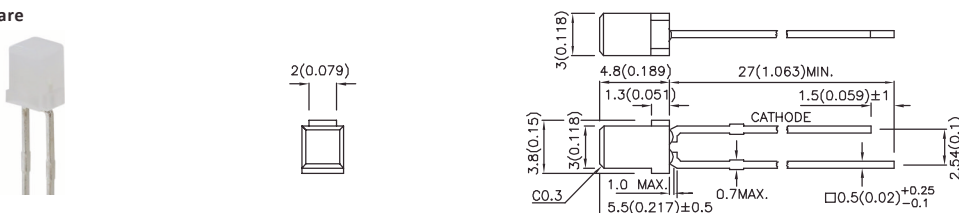
| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _f =20mA | | Viewing Angle 2θ1/2 | Lens |
|-------------|--------------------------------|------------|--|------|------------------------|------|
| | | | Min. | Typ. | | |




| | | | | | | |
|--------|---------------------|-----|---|---|-----|-----------------|
| SUR92D | ◆ GaAsP/GaP(Red) | 627 | 5 | 9 | 70° | Red Diffused |
| SUY92D | ◆ GaAsP/GaP(Yellow) | 590 | 3 | 7 | 70° | Yellow Diffused |
| SMG92D | ◆ GaP(Green) | 565 | 3 | 6 | 70° | Green Diffused |

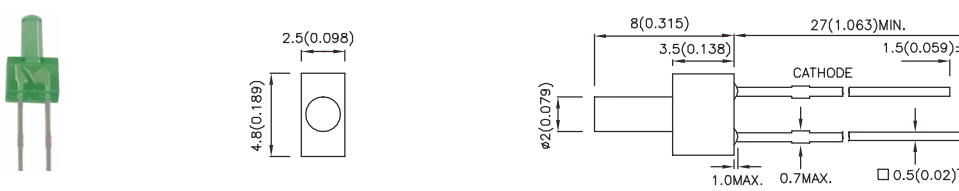
1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

THRU-HOLE LEDs
 OVAL | RECTANGULAR | SIDE EMITTING

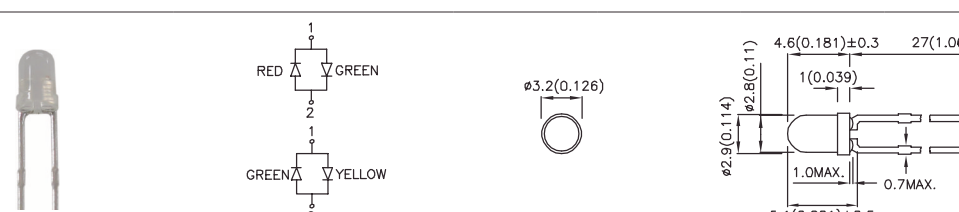
| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _f =20mA | | Viewing Angle 2θ1/2 | Lens |
|---|-----------------------------------|------------|--|------|------------------------|-----------------------|
| | | | Min. | Typ. | | |
| 3x3mm Square (Ice Cube)  | | | | | | |
| SMDK43MB | ◆ AlGaInP(Red) | 645 | 20 | 39 | 140° | White Triple Diffused |
| SMOK43MB | ◆ AlGaInP(Orange) | 610 | 25 | 59 | 140° | White Triple Diffused |
| SMYK43MB | ◆ AlGaInP(Yellow) | 590 | 40 | 98 | 140° | White Triple Diffused |
| SVG43MB | ◆ AlGaInP(Green) | 574 | 12 | 19 | 140° | White Triple Diffused |
| SDG43MB | ◆ InGaN(Green) | 515 | 120 | 248 | 140° | White Triple Diffused |
| SCBD43MB | ◆ InGaN(Blue) | 460 | 20 | 59 | 140° | White Triple Diffused |

| | | | | | | |
|---|-------------------|-----|----|-----|------|-----------------------|
| 5x5mm Square (Ice Cube)  | | | | | | |
| SMDK23MB | ◆ AlGaInP(Red) | 645 | 12 | 29 | 140° | White Triple Diffused |
| SMOK23MB | ◆ AlGaInP(Orange) | 610 | 20 | 49 | 140° | White Triple Diffused |
| SMYK23MB | ◆ AlGaInP(Yellow) | 590 | 20 | 49 | 140° | White Triple Diffused |
| SDG23MB | ◆ InGaN(Green) | 515 | 70 | 178 | 140° | White Triple Diffused |
| SCBD23MB | ◆ InGaN(Blue) | 460 | 12 | 29 | 140° | White Triple Diffused |

FLAT TOP

| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _f =10mA | | Viewing Angle 2θ1/2 | Lens |
|---|-----------------------------------|------------|--|------|------------------------|-----------------|
| | | | Min. | Typ. | | |
| 2mm  | | | | | | |
| LUR13D | ◆ GaAsP/GaP(Red) | 627 | 6 | 11 | 50° | Red Diffused |
| LUY13D | ◆ GaAsP/GaP(Yellow) | 590 | 4 | 7 | 50° | Yellow Diffused |
| LUG13D | ◆ GaP(Green) | 565 | 6 | 11 | 50° | Green Diffused |


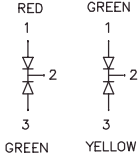

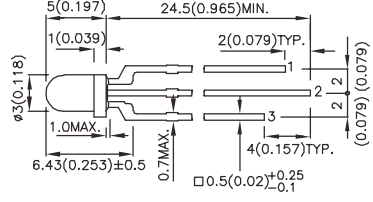
BI-COLOR & BI-POLAR

| Part Number | Chip Structure (Emitted Color) | λpeak (nm) | Intensity(mcd) I _f =20mA | | Viewing Angle 2θ1/2 | Lens |
|---|-----------------------------------|------------|--|------|------------------------|----------------|
| | | | Min. | Typ. | | |
| 3mm Round  | | | | | | |
| LUGR37M | ◆ GaAsP/GaP(Red) | 627 | 4 | 9 | 60° | White Diffused |
| | ◆ GaP(Green) | 565 | 6 | 13 | | |
| LUGY37M | ◆ GaP(Green) | 565 | 6 | 13 | 60° | White Diffused |
| | ◆ GaAsP/GaP(Yellow) | 590 | 4 | 7 | | |

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01")
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
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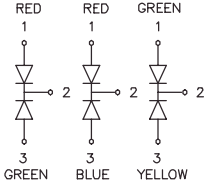
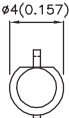
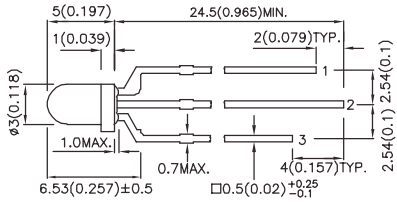
| Part Number | Chip Structure (Emitted Color) | I _{peak} (nm) | Intensity(mcd) I _v =20mA | | Viewing Angle 2θ1/2 | Lens |
|-------------|-----------------------------------|------------------------|--|------|------------------------|------|
| | | | Min. | Typ. | | |

3mm Round


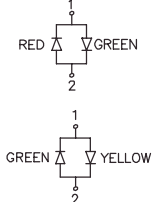

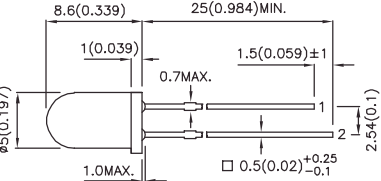
| | | | | | | |
|---------|---------------------|-----|----|----|-----|----------------|
| LUGR29M | ◆ GaAsP/GaP(Red) | 627 | 10 | 29 | 60° | White Diffused |
| | ◆ GaP(Green) | 565 | 20 | 39 | | |
| LUGY29M | ◆ GaP(Green) | 565 | 15 | 39 | 60° | White Diffused |
| | ◆ GaAsP/GaP(Yellow) | 590 | 10 | 14 | | |

3mm Round


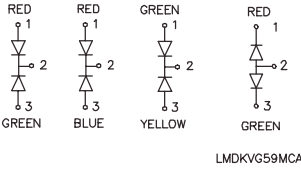

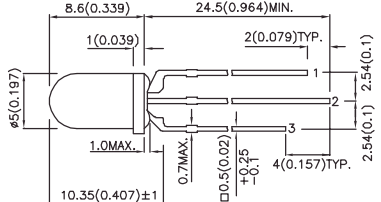
| | | | | | | |
|-----------|---------------------|-----|-----|-----|-----|----------------|
| LUGR34M | ◆ GaAsP/GaP(Red) | 627 | 8 | 15 | 60° | White Diffused |
| | ◆ GaP(Green) | 565 | 20 | 39 | | |
| LMDKVG34M | ◆ AlGaInP(Red) | 645 | 80 | 158 | 60° | White Diffused |
| | ◆ AlGaInP(Green) | 574 | 60 | 158 | | |
| LMDKCB34M | ◆ AlGaInP(Red) | 645 | 80 | 158 | 60° | White Diffused |
| | ◆ InGaN(Blue) | 460 | 100 | 198 | | |
| LUGY34M | ◆ GaP(Green) | 565 | 15 | 29 | 60° | White Diffused |
| | ◆ GaAsP/GaP(Yellow) | 590 | 10 | 19 | | |

5mm Round

| | | | | | | |
|---------|---------------------|-----|----|----|-----|----------------|
| LUGR58M | ◆ GaAsP/GaP(Red) | 627 | 6 | 13 | 30° | White Diffused |
| | ◆ GaP(Green) | 565 | 12 | 29 | | |
| LUGY58M | ◆ GaP(Green) | 565 | 12 | 29 | 30° | White Diffused |
| | ◆ GaAsP/GaP(Yellow) | 590 | 4 | 9 | | |

5mm Round

| | | | | | | |
|-------------|---------------------|-----|-----|-----|-----|----------------|
| LUGR59M | ◆ GaAsP/GaP(Red) | 627 | 20 | 39 | 30° | White Diffused |
| | ◆ GaP(Green) | 565 | 20 | 59 | | |
| LMDKVG59M | ◆ AlGaInP(Red) | 645 | 80 | 198 | 30° | White Diffused |
| | ◆ AlGaInP(Green) | 574 | 80 | 178 | | |
| LMDKVG59MCA | ◆ AlGaInP(Red) | 645 | 18 | 39 | 60° | White Diffused |
| | ◆ AlGaInP(Green) | 574 | 8 | 19 | | |
| LMDKCB59M | ◆ AlGaInP(Red) | 645 | 80 | 198 | 30° | White Diffused |
| | ◆ InGaN(Blue) | 460 | 200 | 347 | | |
| LUGY59M | ◆ GaP(Green) | 565 | 50 | 98 | 30° | White Diffused |
| | ◆ GaAsP/GaP(Yellow) | 590 | 20 | 39 | | |

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

| Part Number | Chip Structure (Emitted Color) | I _{peak} (nm) | Intensity(mcd) I _f =20mA | | Viewing Angle 2θ1/2 | Lens |
|-------------|-----------------------------------|------------------------|--|-----|------------------------|----------------|
| | | | Min | Typ | | |
| SUGR18M | ◆ GaAsP/GaP(Red) | 627 | 1.2 | 3.8 | 140° | White Diffused |
| | ◆ GaP(Green) | 565 | 2 | 5 | | |
| SUGY18M | ◆ GaP(Green) | 565 | 2 | 5 | 140° | White Diffused |
| | ◆ GaAsP/GaP(Yellow) | 590 | 2 | 3.8 | | |

| | | | | | | |
|-----------|---------------------|-----|----|----|------|----------------|
| SUGR47M | ◆ GaAsP/GaP(Red) | 627 | 4 | 9 | 140° | White Diffused |
| | ◆ GaP(Green) | 565 | 3 | 8 | | |
| SMDKVG47M | ◆ AlGaInP(Red) | 645 | 30 | 54 | 140° | White Diffused |
| | ◆ AlGaInP(Green) | 574 | 15 | 29 | | |
| SUGY47M | ◆ GaP(Green) | 565 | 8 | 19 | 140° | White Diffused |
| | ◆ GaAsP/GaP(Yellow) | 590 | 4 | 6 | | |

BLINKING

| Part Number | Chip Structure (Emitted Color) | I _{peak} (nm) | Intensity(mcd) V=9V | | Viewing Angle 2θ1/2 | Lens |
|-------------|-----------------------------------|------------------------|------------------------|------|------------------------|-----------------|
| | | | Min. | Typ. | | |
| BUR53D | ◆ GaAsP/GaP(Red) | 627 | 12 | 24 | 60° | Red Diffused |
| BMR53D | ◆ GaAlAs(Red) | 655 | 40 | 79 | 60° | Red Diffused |
| BUY53D | ◆ GaAsP/GaP(Yellow) | 590 | 12 | 19 | 60° | Yellow Diffused |
| BUG53D | ◆ GaP(Green) | 565 | 15 | 29 | 60° | Green Diffused |

SUPER FLUX

| Part Number | Chip Structure (Emitted Color) | I _{peak} (nm) | Intensity(mcd) I _f =70mA,30mA* | | Viewing Angle 2θ1/2 | Lens |
|-------------|-----------------------------------|------------------------|--|-------|------------------------|-------------|
| | | | Min. | Typ. | | |
| SM2CRK983W | ◆ AlGaInP(Red) | 640 | 2700 | 4490 | 70° | Water Clear |
| SM2CYK983W | ◆ AlGaInP(Yellow) | 590 | 3100 | 4990 | 70° | Water Clear |
| SM2DG983W | ◆ InGaN(Green) | 520 | *3600 | *5990 | 40° | Water Clear |
| SFB983W | ◆ InGaN(Blue) | 465 | *900 | *1195 | 40° | Water Clear |

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01")
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.