



## Catalogue Summary

### Jun 2012 (Ver.31)



## About DOMINANT Opto Technologies



DOMINANT Opto Technologies is a dynamic Malaysian Corporation that is among the world's leading SMT LED Manufacturers. As an excellence – driven organization, we offer a comprehensive innovative product range for diverse applications worldwide. This relentless pursuit of innovation, State-Of-The-Art Manufacturing Plant and Research and Development Capabilities have made DOMINANT a reliable trusted brand.

To ensure innovation, continual human resource development is always in the top agenda of the company. Our TQM (Total Quality Management) philosophy is our foundation to ensure customer, employees and stakeholder's satisfaction.

**Mission Statement:**

To provide Design Innovation and High Quality Opto Semiconductors Products, Contributing Towards A Greener World

**Vision Statement:**

# 1 Solution Provider For Opto Semiconductors product.

**Product Part No Designation**

|          |          |          |    |    |   |          |          |          |   |          |     |          |     |     |     |     |     |          |   |          |          |     |     |
|----------|----------|----------|----|----|---|----------|----------|----------|---|----------|-----|----------|-----|-----|-----|-----|-----|----------|---|----------|----------|-----|-----|
| <b>D</b> | <b>D</b> | <b>B</b> |    |    |   | <b>S</b> | <b>J</b> | <b>S</b> |   | <b>P</b> |     | <b>Q</b> |     |     |     |     |     | <b>4</b> |   | <b>V</b> | <b>0</b> |     |     |
| X1       | X2       | X3       | X4 | X5 | - | X6       | X7       | X8       | - | X9       | X10 | X11      | X12 | X13 | X14 | X15 | X16 | X17      | - | X18      | -        | X19 | X20 |

| <b>X1<br/>Platform</b> | <b>X2<br/>Package</b>  | <b>X3X4X5<br/>for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> color of Multiled</b>   | <b>X6<br/>Chip<br/>Categories</b> | <b>X7<br/>Lead Bend</b>   |
|------------------------|--|---|-----------------------------------|---|
|                        | <u>Type</u>  | <u>Color</u> : <u>Wavelength ( <i>dom</i> )</u>   |                                   |   |
| <u>D</u> -Domi         | <u>D</u> -Domi<br><u>R</u> -R Domi<br><u>M</u> -Multi<br><u>W</u> -Power Domi<br><u>T</u> -Thin Power Domi<br><u>S</u> -Super Small<br><u>6</u> -PLCC 6<br><u>N</u> -Mini Domi<br><u>A</u> -Midi Domi (3020)<br><u>B</u> -Maxi Domi (5050) | <u>A</u> -Amber : 615 nm<br><u>B</u> -Blue : 470 nm<br><u>C</u> -Cyan : 505 nm<br><u>F</u> -Warm White : -<br><u>G</u> -Green : 570 nm<br><u>H</u> -Hyper Red : 645 nm<br><u>L</u> -Light Blue : 460 nm<br><u>O</u> -Orange : 605 nm<br><u>P</u> -Pure Green : 560 nm<br><u>R</u> -Red : 625 nm<br><u>S</u> -Super Red : 632 nm | For Internal Use                  | <u>J</u> -J bend<br><u>G</u> -Gullwing bend<br><u>R</u> -Reverse Gullwing<br><u>L</u> -Leadless<br><u>S</u> -Short Lead |
| <u>N</u> -Nova         | <u>P</u> -Super Nova<br><u>M</u> -Multi<br><u>A</u> -Primax<br><u>K</u> -K Nova<br><u>B</u> -Primax Bi<br><u>I</u> -Primax I   | <u>T</u> -True Green : 525 nm<br><u>V</u> -Violet : 405 nm<br><u>Y</u> -Yellow : 587 nm<br><u>W</u> -White : -  |                                   |   |
| <u>S</u> -Spice        | <u>S</u> -S Spice<br><u>D</u> -D Spice<br><u>M</u> -M Spice  |   |                                   |   |
| <u>W</u> -SiLC         | <u>S</u> -Std (2525)   |   |                                   |   |
| <u>C</u> -<br>ChipLED  | <u>S</u> -0603<br><u>M</u> -0805<br><u>A</u> -1205 Reverse   |   |                                   |   |

**Product Part No Designation**

|          |          |          |    |    |   |          |          |          |   |          |     |          |     |     |     |     |     |     |          |     |          |          |     |
|----------|----------|----------|----|----|---|----------|----------|----------|---|----------|-----|----------|-----|-----|-----|-----|-----|-----|----------|-----|----------|----------|-----|
| <b>D</b> | <b>D</b> | <b>B</b> |    |    |   | <b>S</b> | <b>J</b> | <b>S</b> |   | <b>P</b> |     | <b>Q</b> |     |     |     |     |     |     | <b>4</b> |     | <b>V</b> | <b>0</b> |     |
| X1       | X2       | X3       | X4 | X5 | - | X6       | X7       | X8       | - | X9       | X10 | X11      | X12 | X13 | X14 | X15 | X16 | X17 | -        | X18 | -        | X19      | X20 |

|   |  |            |            |                     |            |            |
|---|--|------------|------------|---------------------|------------|------------|
| <b>X8</b><br><br><b>Package Feature</b>                   | <b>Luminous Intensity Group (mcd) Or Luminous Flux Bin (lm)</b>  |            |            |                     |            |            |
|   | <b>X 9X10X11 – 1<sup>st</sup> Chip family Group</b><br><b>X12X13X14 – 2<sup>nd</sup> Chip family Group</b><br><b>X15X16X17 – 3<sup>rd</sup> Chip family Group</b><br>(tested at a current pulse duration of 25ms with accuracy of ± 11%) |            |            |                     |            |            |
| <b>Feature</b>  | <b>Single Group</b>  | <b>min</b> | <b>max</b> | <b>Single Group</b> | <b>min</b> | <b>max</b> |
| B = Black surface coated only                             | E1:  | 0.72       | 0.90       | U1:                 | 450.00     | 560.00     |
| D = Diffused Resin only                                   | E2:  | 0.90       | 1.10       | U2:                 | 560.00     | 715.00     |
| E = Black surface coated with Colored Resin.              | F1:  | 1.10       | 1.40       | V1:                 | 715.00     | 900.00     |
|   | F2:  | 1.40       | 1.80       | V2:                 | 900.00     | 1125.00    |
| S = Standard Feature (Colorless Clear with white Surface) | G1:  | 1.80       | 2.24       | W1:                 | 1125.00    | 1400.00    |
|   | G2:  | 2.24       | 2.80       | W2:                 | 1400.00    | 1800.00    |
| G = Silicone base   | H1:  | 2.80       | 3.55       | X1:                 | 1800.00    | 2240.00    |
| M = Silicone RG   | H2:  | 3.55       | 4.50       | X2:                 | 2240.00    | 2850.00    |
| 4 = 40° viewing angle                                     | J1:  | 4.50       | 5.60       | Y1:                 | 2850.00    | 3550.00    |
| 6 = 60° viewing angle                                     | J2:  | 5.60       | 7.20       | Y2:                 | 3550.00    | 4500.00    |
| 7 = 70° viewing angle                                     | K1:  | 7.20       | 9.00       | Z1:                 | 4500.00    | 5600.00    |
|   | K2:  | 9.00       | 11.20      | Z2:                 | 5600.00    | 7150.00    |
|   | L1:  | 11.20      | 14.00      | AA:                 | 7150.00    | 9000.00    |
|   | L2:  | 14.00      | 18.00      | AB:                 | 9000.00    | 11250.00   |
|   | M1:  | 18.00      | 22.40      | AC:                 | 11250.00   | 14000.00   |
|   | M2:  | 22.40      | 28.50      | AD:                 | 14000.00   | 18000.00   |
|   | N1:  | 28.50      | 35.50      | AE:                 | 18000.00   | 22400.00   |
|   | N2:  | 35.50      | 45.00      | AF:                 | 22400.00   | 28500.00   |
|   | P1:  | 45.00      | 56.00      | AG:                 | 28500.00   | 35500.00   |
|   | P2:  | 56.00      | 71.50      | AH:                 | 35500.00   | 45000.00   |
|   | Q1:  | 71.50      | 90.00      | AJ:                 | 45000.00   | 56000.00   |
|   | Q2:  | 90.00      | 112.50     | AK:                 | 56000.00   | 71500.00   |
|   | R1:  | 112.50     | 140.00     | AL:                 | 71500.00   | 90000.00   |
|   | R2:  | 140.00     | 180.00     | AM:                 | 90000.00   | 112500.00  |
|   | S1:  | 180.00     | 224.00     |                     |            |            |
|   | S2:  | 224.00     | 285.00     |                     |            |            |
|   | T1:  | 285.00     | 355.00     |                     |            |            |
|   | T2:  | 355.00     | 450.00     |                     |            |            |

|          |          |          |    |    |   |          |          |          |   |          |     |          |     |     |     |     |     |          |   |          |          |     |     |
|----------|----------|----------|----|----|---|----------|----------|----------|---|----------|-----|----------|-----|-----|-----|-----|-----|----------|---|----------|----------|-----|-----|
| <b>D</b> | <b>D</b> | <b>B</b> |    |    |   | <b>S</b> | <b>J</b> | <b>S</b> |   | <b>P</b> |     | <b>Q</b> |     |     |     |     |     | <b>4</b> |   | <b>V</b> | <b>0</b> |     |     |
| X1       | X2       | X3       | X4 | X5 | - | X6       | X7       | X8       | - | X9       | X10 | X11      | X12 | X13 | X14 | X15 | X16 | X17      | - | X18      | -        | X19 | X20 |


|   |   |
|---|---|
| <b>Wavelength Range</b><br><br><b>X18</b><br><br>(W/L subgroups of particular color range)  | <b>Additional Test Option</b><br><br><b>X19X20</b><br><br>(additional test upon customer demands) |
| 1- Single color full group (no selection).<br>2- First 2 gps. ( W & X )<br>3- Next 2 gps. ( X & Y )<br>4- Next 2 gps. ( Y & Z )<br>5- Single wavelength group per shipment<br>6- Two adjacent groups per shipment<br>7- First 3 gp. (W, X & Y)<br>8- Next 3 gp. (X, Y & Z)<br>W - Single group.<br>X - Single group.<br>Y - Single group.<br>Z - Single group.<br>*Option for Bi-color to become 2 characters,<br>eg: 38 means 1 <sup>st</sup> chip accept X & Y bin, 2 <sup>nd</sup><br>chip accept X, Y & Z bins.<br><br>For white Color Bin<br>A – A1+A2+A3+A4<br>B – A3+A4+C1+C2<br>C – C1+C2+C3+C4<br>D – C3+C4+E1+E2<br>E – E1+E2+E3+E4<br>F – A1+A2+A3+A4+C1+C2<br>G – A3+A4+C1+C2+C3+C4<br>H – C1+C2+C3+C4+E1+E2<br>J – C3+C4+E1+E2+E3+E4<br>K – V3+V4+A1+A2+A3+A4<br>L – V1+V2+V3+V4+A1+A2<br>V – V1+V2+V3+V4<br>M – V3+V4+A1+A2 | VX – Voltage binning  |

## Luminous Flux Bin

|     | <u>min</u> | <u>max</u> |     | <u>min</u> | <u>max</u> |
|-----|------------|------------|-----|------------|------------|
|     |            |            | M2: | 13.9       | 15.8       |
|     |            |            | M3: | 15.8       | 18.1       |
|     |            |            | N2: | 18.1       | 20.6       |
|     |            |            | N3: | 20.6       | 23.5       |
|     |            |            | P2: | 23.5       | 26.8       |
|     |            |            | P3: | 26.8       | 30.6       |
|     |            |            | Q2: | 30.6       | 34.8       |
|     |            |            | Q3: | 34.8       | 39.8       |
|     |            |            | R2: | 39.8       | 45.2       |
|     |            |            | R3: | 45.2       | 51.7       |
|     |            |            | S2: | 51.7       | 59.0       |
|     |            |            | S3: | 59.0       | 67.2       |
| H2: | 4.90       | 5.50       | T2: | 67.2       | 76.5       |
| H3: | 5.50       | 6.30       | T3: | 76.5       | 87.4       |
| J2: | 6.30       | 7.15       | U2: | 87.4       | 99.4       |
| J3: | 7.15       | 8.20       | U3: | 99.4       | 113.6      |
| K2: | 8.20       | 9.35       | V2: | 113.6      | 129.2      |
| K3: | 9.35       | 10.7       | V3: | 129.2      | 147.7      |
| L2: | 10.7       | 12.2       | W2: | 147.7      | 168.0      |
| L3: | 12.2       | 13.9       | W3: | 168.0      | 192.0      |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|


### AlGaAs / GaP Technology DomiLED

|   |                   |           |       |             |               |     |     |
|---|-------------------|-----------|-------|-------------|---------------|-----|-----|
|  | DDH-GJS-MN2-1     | Hyper Red | 645   | Clear       | 18.00...45.00 | 20  | 120 |
|   | DDH-GJS-NP2-1     |           |       |             | 28.50...71.50 |     |     |
|   | DDR-GJS-D2F1-1-I2 | Red       | 625   | Clear       | 0.56...1.40   | 2   | 120 |
|   | DDR-GJS-J2L1-1-I1 |           |       |             | 5.60...14.00  |     |     |
|   | DDR-GJS-LM2-1     |           |       |             | 11.20...28.50 |     |     |
|   | DDR-GJS-MN2-1     |           |       |             | 18.00...45.00 |     |     |
|   | DDO-GJS-DE2-1-I2  | Orange    | 605   | Clear       | 0.45...1.10   | 2   | 120 |
|   | DDO-GJS-H2K1-1-I1 |           |       |             | 3.55...9.00   |     |     |
|   | DDO-GJS-LM2-1     |           |       |             | 11.20...28.50 |     |     |
|   | DDY-GJS-DE2-1-I2  | Yellow    | 587   | Clear       | 0.45...1.10   | 2   | 120 |
|   | DDY-GJS-H2K1-1-I1 |           |       |             | 3.55...9.00   |     |     |
|   | DDY-GJS-J2L1-1-I1 |           |       |             | 5.60...14.00  |     |     |
|   | DDY-GJS-LM2-1     |           |       |             | 11.20...28.50 |     |     |
|   | DDG-GJS-EF2-1-I2  | Green     | 570   | Clear       | 0.72...1.80   | 2   | 120 |
| DDG-GJS-KL2-1-I1  | 7.20...18.00      |           |       |             |               |     |     |
| DDG-GJS-LM2-1   | 11.20...28.50     |           |       |             |               |     |     |
| DDG-GJS-MN2-1   | 18.00...45.00     |           |       |             |               |     |     |
| DDP-GJS-GH2-1-I1  | Pure Green        | 560       | Clear | 1.80...4.50 | 10            | 120 |     |

### AllnGaP Technology DomiLED

|   |                   |           |     |       |                 |    |     |
|---|-------------------|-----------|-----|-------|-----------------|----|-----|
|  | DDH-CJS-PQ2-1     | Hyper Red | 645 | Clear | 45.00...112.50  | 20 | 120 |
|   | DDS-CJS-J2L1-1-I2 | Super Red | 632 | Clear | 5.60...14.00    | 2  | 120 |
|   | DDS-CJS-QR2-1     |           |     |       | 71.50...180.00  | 20 |     |
|   | DDS-CJS-RS2-1     |           |     |       | 112.50...285.00 | 20 |     |
|   | DDS-EJS-S2T-1     |           |     |       | 224.00...450.00 | 20 |     |
|   | DDS-EJS-TU2-1-I3  |           |     |       | 285.00...715.00 | 30 |     |
|   | DDS-SJS-R2S-1-I3  |           |     |       | 140.00...285.00 | 30 |     |
|   | DDS-PJS-U2V-1     |           |     |       | 560.00...1125.0 | 20 |     |
|   | DRS-MJS-UV1-1     |           |     |       | 450.00...900.00 | 20 |     |
|   | DRS-NJS-TU1-1     |           |     |       | 285.00...560.00 | 20 |     |
|   | DRS-NJS-T2U-1     |           |     |       | 355.00...715.00 | 20 |     |
|   | DRS-NJS-UV1-1     |           |     |       | 450.00...900.00 | 20 |     |


| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2j$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|

|   |                        |        |       |                 |                  |     |     |
|---|------------------------|--------|-------|-----------------|------------------|-----|-----|
|  | DDR-CJS-LM2-1-I2       | Red    | 625   | Clear           | 11.20...28.50    | 2   | 120 |
|   | DDR-CJS-RS2-1          |        |       |                 | 112.50...285.00  | 20  |     |
|   | DDR-CJS-ST1-1          |        |       |                 | 180.00...355.00  | 20  |     |
|   | DDR-EJS-TU1-1          |        |       |                 | 285.00...560.00  | 20  |     |
|   | DDR-TJS-TU2-1          |        |       |                 | 285.00...715.00  | 20  |     |
|   | DRR-NJS-T2U-1          |        |       |                 | 560.00...1125.00 | 20  |     |
|   | DRR-MJS-U2V-1          |        |       |                 | 715.00...1400.00 | 20  |     |
|   | DDR-PJS-VW1-1          |        |       |                 | 715.00...1400.00 | 20  |     |
|   | DDA-CJS-RS2-1          | Amber  | 615   | Clear           | 112.50...285.00  | 20  | 120 |
|   | DDA-CJS-ST2-1          |        |       |                 | 180.00...450.00  | 20  |     |
|   | DDA-EJS-T2U-1          |        |       |                 | 355.00...715.00  | 20  |     |
|   | DRA-NJS-UV1-1          |        |       |                 | 450.00...900.00  | 20  |     |
|   | DRA-MJS-VW1-1          |        |       |                 | 715.00...1400.0  | 20  |     |
|   | DDA-PJS-V2W-1          |        |       |                 | 900.00...1800.0  | 20  |     |
|   | DDO-CJS-KL2-1-I2       | Orange | 605   | Clear           | 7.20...18.00     | 2   | 120 |
|   | DDO-CJS-LM2-1-I2       |        |       |                 | 11.20...28.50    | 2   |     |
|   | DDO-CJS-RS2-1          |        |       |                 | 112.50...285.00  | 20  |     |
|   | DDO-CJS-ST2-1          |        |       |                 | 180.00...450.00  | 20  |     |
|   | DRO-NJS-UV1-1          |        |       |                 | 450.00...900.00  | 20  |     |
|   | DRO-MJS-VW1-1          |        |       |                 | 715.00...1400.00 | 20  |     |
|   | DDY - CJS - LM2 - 1-I2 | Yellow | 587   | Clear           | 11.20 ... 28.50  | 2   | 120 |
|   | DDY - CJS - RS2 - 1    |        |       |                 | 112.50... 285.00 | 20  |     |
|   | DDY - CJS - ST2 - 1    |        |       |                 | 180.00...450.00  | 20  |     |
|   | DDY - EJS - T2U - 1    |        |       |                 | 355.00...715.00  | 20  |     |
|   | DDY - TJS - TU2 - 1    |        |       |                 | 285.00...715.00  | 20  |     |
|   | DRY - NJS - UV1 - 1    |        |       |                 | 450.00...900.00  | 20  |     |
|   | DRY - MJS - VW1 - 1    |        |       |                 | 715.0...1400.0   | 20  |     |
|   | DDY - PJS - V2W - 1    |        |       |                 | 900.00...1800.0  | 20  |     |
| DDG-CJS-HJ2-1-12  | Green                  | 572    | Clear | 2.80...7.20     | 2                | 120 |     |
| DDG-CJS-PQ2-1   |                        |        |       | 45.00...112.50  | 20               |     |     |
| DDG-CJS-QR2-1   |                        |        |       | 71.50...180.00  | 20               |     |     |
| DDG-SJS-R2S-1-I3  |                        |        |       | 140.00...285.00 | 30               |     |     |
| DDP-SJS-FG1-1-I2  | Pure Green             | 560    | Clear | 1.10...2.24     | 2                | 120 |     |
| DDP -CJS-LM2-1  |                        |        |       | 11.20...28.50   | 20               |     |     |
| DDP-SJS-LM2-1   |                        |        |       | 11.20...28.50   | 20               |     |     |
| DDP-SJS-MN2-1   |                        |        |       | 18.00...45.00   | 20               |     |     |
| DDP-SJS-NP2-1-I3  |                        |        |       | 28.50...71.50   | 30               |     |     |




| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | 2j (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|-------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|-------------------------------|

### InGa/GaN Technology DomiLED

|   |                    |                 |     |       |                  |    |     |
|---|--------------------|-----------------|-----|-------|------------------|----|-----|
|  | DDT-TJS-QR2-1      | True Green      | 525 | Clear | 71.50...180.00   | 10 | 120 |
|   | DDT-CJS-RS2-1      |                 |     |       | 112.50...285.00  | 20 |     |
|   | DDT-CJS-ST2-1      |                 |     |       | 180.00...450.00  | 20 |     |
|   | DDT-UJS-TU2-1      |                 |     |       | 285.00...715.00  | 20 |     |
|   | DDT-HJS-VW1-1      |                 |     |       | 715.00...1400.00 | 20 |     |
|   | DDT-HJS-V2W-1      |                 |     |       | 900.00...1800.00 | 20 |     |
|   | DDT-DJS-VW2-1      |                 |     |       | 715.00...1800.00 | 20 |     |
|   | DDT-DZJS-R2T1-1    |                 |     |       | 140.00...355.00  | 20 |     |
|   | DDT-DZJS-VW2-1     |                 |     |       | 715.00...1800.00 | 20 |     |
|   | DDT-DZJS-TU2-1-11  |                 |     |       | 285.00...715.00  | 10 |     |
|   | DDT-DZJS-T2V1-1-11 | 355.00...900.00 | 10  |       |                  |    |     |
|   | DDC-UJS-TU1-1      | Cyan            | 505 | Clear | 285.00...560.00  | 20 | 120 |
|   | DDB-JJS-KL2-1-11   | Blue            | 470 | Clear | 7.20...18.00     | 10 | 120 |
|   | DDB-JJS-LM2-1      |                 |     |       | 11.20...28.50    | 20 |     |
| DDB-CJS-PQ2-1   | 45.00...112.50     |                 |     |       | 20               |    |     |
| DDB-UJS-RS1-1   | 112.50...224.00    |                 |     |       | 20               |    |     |
| DDB-HJS-TU1-1   | 285.00...560.00    |                 |     |       | 20               |    |     |
| DDB-DJS-ST2-1   | 180.00...450.00    |                 |     |       | 20               |    |     |
| DDB-DJS-TU1-1   | 285.00...560.00    |                 |     |       | 20               |    |     |
| DDB-DZJS-PQ2-1  | 45.00...112.50     |                 |     |       | 20               |    |     |
| DDB-DZJS-ST2-1  | 180.00...450.00    |                 |     |       | 20               |    |     |
| DDB-DZJS-RS2-1-11   | 112.50...285.00    |                 |     |       | 10               |    |     |







| Package | Type | Emission Color | Color of emission area. | I <sub>v</sub> [mcd] | At I <sub>F</sub> [mA] | 2j (typ.) (50% I <sub>v</sub> ) [deg.] |
|---------|------|----------------|-------------------------|----------------------|------------------------|--|
|---------|------|----------------|-------------------------|----------------------|------------------------|--|

### InGaN White DomiLED


|   |                   |          |                  |                   |     |     |
|---|-------------------|----------|------------------|-------------------|-----|-----|
|  | DDW-JJD-M2N-1-I1  | White    | Diffused         | 22.40...45.00     | 10  | 120 |
|   | DDW-JJD-NP2-1-I1  |          |                  | 28.50...71.50     | 10  |     |
|   | DDW-JJD-NP2-1     |          |                  | 28.50...71.50     | 20  |     |
|   | DDW-CJG-QR2-1-I1  |          |                  | 71.50...180.00    | 10  |     |
|   | DDW-CJD-RS2-1     |          |                  | 112.50...285.00   | 20  |     |
|   | DDW-CJD-ST1-1     |          |                  | 180.00...355.00   | 20  |     |
|   | DDW-CJG-RS2-5K8L  |          |                  | 112.50...285.00   | 20  |     |
|   | DDW-CJG-RS2-1     |          |                  | 112.50...285.00   | 20  |     |
|   | DDW-UJG-T2U-5K8L  |          |                  | 355.00...715.00   | 20  |     |
|   | DDW-UJD-UV1-1     |          |                  | 450.00...900.00   | 20  |     |
|   | DDW-UJD-U2V-1     |          |                  | 560.00...1125.00  | 20  |     |
|   | DDW-HJG-X1X2-1    |          |                  | 1800.00...2850.00 | 20  |     |
|   | DDW-LJG-WX1-1     |          |                  | 1125.00...2240.00 | 20  |     |
|   | DDW-PJG-WX1-1     |          |                  | 1125.00...2240.00 | 20  |     |
|   | DDW-PJG-W2X-1     |          |                  | 1400.00...2850.00 | 20  |     |
|   | DDW-KJC-W2X1-1    |          |                  | 1400.00...2240.0  | 20  |     |
|   | DDW-MJG-W2X-1     |          |                  | 1400.00...2850.00 | 20  |     |
|   | DDW-MJG-W2X-JKPL  |          |                  | 1400.00...2850.00 | 20  |     |
|   | DDW-WJG-2X4X-1    |          |                  | 2020.00...2850.00 | 20  |     |
|   | DDW-TJG-3X4X-1    |          |                  | 2240.00...2850.00 | 20  |     |
| DRF-NJG-V2W-1   | Warm White        | Diffused | 900.00...1800.00 | 20                | 120 |     |
| DDF-HJG-WX1-1   | 1125.00...2240.00 |          | 20               |                   |     |     |
| DDF-WJG-2X4X-1  | 2020.00...2850.00 |          | 20               |                   |     |     |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|


### Colored Resin DomiLED

|   |   |            |     |          |  |                |     |
|---|---|------------|-----|----------|--|----------------|-----|
|  | DDR-CJE-RS2-1                                   | Red        | 625 | Diffused | 112.50...285.00  | 20             | 120 |
|  | DRR-NJE-T2U-1<br>DRR-RJE-UV2-1                  | Red        | 625 | Diffused | 355.0...715.0.0<br>450.00...1125.00                    | 20<br>20       | 120 |
|  | DDY-CJE-ST2-1                                   | Yellow     | 587 | Diffused | 180.00...450.00  | 20             | 120 |
|  | DRY-NJE-UV1-1<br>DRY-RJE-UV2-1<br>DRY-RJE-VW1-1 | Yellow     | 587 | Diffused | 450.00...900.0<br>450.00...1125.00<br>715.00...1400.00 | 20<br>20<br>20 | 120 |
|  | DDT-UJE-UV2-1<br>DDT-DJE-VW2-1                  | True Green | 525 | Diffused | 450.00...1125.00<br>715.00...1800.00                   | 20<br>20       | 120 |
|  | DDB-UJE-RS1-1<br>DDB-DJE-TU1-1                  | Blue       | 470 | Diffused | 112.50...224.00<br>285.00...560.00                     | 20<br>20       | 120 |

### AllnGaP DomiLED Black Coated

|   |                  |        |     |       |                  |    |     |
|---|------------------|--------|-----|-------|------------------|----|-----|
|  | DDA-SJB-T2V-1-I3 | Amber  | 615 | Clear | 355.00...1125.00 | 30 | 120 |
|   | DRY-NJB-UV1-1    | Yellow | 587 | Clear | 450.00...900.00  | 20 | 120 |
|   | DDY-SJB-T2V-1-I3 |        |     |       | 355.00...1125.00 | 30 | 120 |

### AlGaAs/GaP Technology Reverse Gullwing DomiLED


|   |               |           |       |               |               |     |     |
|---|---------------|-----------|-------|---------------|---------------|-----|-----|
|  | DDH-GRS-MN2-1 | Hyper Red | 645   | Clear         | 18.00...45.00 | 20  | 120 |
|   | DDH-GRS-NP2-1 |           |       |               | 28.50...71.50 | 20  |     |
|   | DDR-GRS-LM2-1 | Red       | 625   | Clear         | 11.20...28.50 | 20  | 120 |
|   | DDR-GRS-MN2-1 |           |       |               | 18.00...45.00 |     |     |
|   | DDO-GRS-LM2-1 | Orange    | 605   | Clear         | 11.20...28.50 | 20  | 120 |
|   | DDY-GRS-LM2-1 | Yellow    | 587   | Clear         | 11.20...28.50 | 20  | 120 |
|   | DDY-GRS-MN2-1 |           |       |               | 18.00...45.00 |     |     |
| DDG-GRS-MN2-1   | Green         | 570       | Clear | 18.00...45.00 | 20            | 120 |     |
| DDP-GRS-GH2-1-I1  | Pure Green    | 560       | Clear | 1.80...4.50   | 10            | 120 |     |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2j$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|

### AllnGaP Technology Reverse Gullwing DomiLED


|   |                   |                 |     |       |                 |    |     |
|---|-------------------|-----------------|-----|-------|-----------------|----|-----|
|  | DDH-CRS-PQ2-1     | Hyper Red       | 645 | Clear | 45.00...112.50  | 20 | 120 |
|   | DDH-SRS-QR2-1     |                 |     |       | 71.50...180.00  |    |     |
|   | DDS-CRS-QR2-1     | Super Red       | 632 | Clear | 71.50...180.00  | 20 | 120 |
|   | DDS-CRS-RS1-1     |                 |     |       | 112.5...224.0   |    |     |
|   | DDS-CRS-J2L1-1-I2 |                 |     |       | 5.60...14.00    |    |     |
|   | DDS-SRS-QR2-1     |                 |     |       | 71.50...180.00  |    |     |
|   | DRS-NRS-TU1-1     |                 |     |       | 265.00...560.00 |    |     |
|   | DDR-CRS-Q2R-1     |                 |     |       | Red             |    |     |
|   | DDR-CRS-RS2-1     | 112.50...285.00 |     |       |                 |    |     |
|   | DDR-SRS-RS2-1     | 112.5...285.00  |     |       |                 |    |     |
|   | DDR-TRS-TU2-1     | 285.00...715.00 |     |       |                 |    |     |
|   | DRR-NRS-T2U-1     | 355.00...715.00 |     |       |                 |    |     |
|   |                   |                 |     |       |                 |    |     |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|

|   |                  |            |     |       |                  |    |     |
|---|------------------|------------|-----|-------|------------------|----|-----|
|  | DDA-CRS-RS2-1    | Amber      | 615 | Clear | 112.50...285.00  | 20 | 120 |
|   | DDA-SRS-ST2-1    |            |     |       | 180.00...450.00  | 20 |     |
|   | DRA-NRS-UV1-1    |            |     |       | 450.00...900.00  | 20 |     |
|   | DDO-CRS-LM2-1-I2 | Orange     | 605 | Clear | 11.20...28.50    | 2  | 120 |
|   | DDO-CRS-RS2-1    |            |     |       | 112.50...285.00  | 20 |     |
|   | DDO-CRS-ST2-1    |            |     |       | 180.00...450.00  | 20 |     |
|   | DDO-SRS-ST2-1    |            |     |       | 180.00...450.00  | 20 |     |
|   | DRO-NRS-UV1-1    |            |     |       | 450.00...900.00  | 20 |     |
|   | DDY-CRS-LM2-1-I2 | Yellow     | 587 | Clear | 11.20...28.50    | 2  | 120 |
|   | DDY-CRS-RS2-1    |            |     |       | 112.50...285.00  | 20 |     |
|   | DDY-CRS-ST1-1    |            |     |       | 180.00...355.00  | 20 |     |
|   | DDY-SRS-ST2-1    |            |     |       | 180.00...450.00  | 20 |     |
|   | DDY-TRS-TU2-1    |            |     |       | 285.00...715.00  | 20 |     |
|   | DRY-NRS-UV1-1    |            |     |       | 450.00...900.00  | 20 |     |
|   | DDG-CRS-PQ2-1    | Green      | 570 | Clear | 45.00...112.50   | 20 | 120 |
|   | DDG-CRS-QR2-1    |            |     |       | 71.50...180.00   | 20 |     |
|   | DDG-SRS-QR2-1    |            |     |       | 71.50...180.00   | 20 |     |
|   | DDT-CRS-QR2-1-I1 | True Green | 525 | Clear | 71.50...180.00   | 10 | 120 |
|   | DDT-CRS-RS2-1    |            |     |       | 112.50...285.00  | 20 |     |
|   | DDT-SRS-ST2-1    |            |     |       | 180.00...450.00  | 20 |     |
|   | DDT-URS-TU2-1    |            |     |       | 285.00...715.00  | 20 |     |
|   | DDT-HRS-V2W-1    |            |     |       | 900.00...1800.00 | 20 |     |
|   | DDT-DRS-UV2-1    |            |     |       | 450.00...1125.00 | 20 |     |
|   | DDT-DZRS-VW2-1   |            |     |       | 715.00...1800.00 | 20 |     |
|   | DDC-URS-TU1-1    | Cyan       | 505 | Clear | 285.00...560.00  | 20 | 120 |
|   | DDB-CRS-PQ2-1    | Blue       | 470 | Clear | 45.00...112.50   | 20 | 120 |
|   | DDB-DRS-RS2-1    |            |     |       | 112.50...285.00  | 20 |     |
| DDB-DZRS-ST2-1  | 180.00...450.00  |            |     |       | 20               |    |     |
| DDB-HRS-S2T-1   | 224.00...450.00  |            |     |       | 20               |    |     |
| DDB-SRS-QR2-1   | 71.50...180.00   |            |     |       | 20               |    |     |
| DDB-URS-RS1-1   | 112.50...224.00  |            |     |       | 20               |    |     |


| Package | Type | Emission Color | Color of emission area. | I <sub>v</sub> [mcd] | At I <sub>F</sub> [mA] | 2j (typ.) (50% I <sub>v</sub> ) [deg.] |
|---------|------|----------------|-------------------------|----------------------|------------------------|--|
|---------|------|----------------|-------------------------|----------------------|------------------------|--|

### InGaN White Technology Reverse Gullwing DomiLED

|   |               |       |          |                 |    |     |
|---|---------------|-------|----------|-----------------|----|-----|
|  | DDW-CRD-RS2-1 | White | Diffused | 112.50...285.00 | 20 | 120 |
|   | DDW-CRD-ST1-1 |       |          | 180.00...355.00 | 20 |     |
|   | DDW-URD-TU2-1 |       |          | 285.00...715.00 | 20 |     |
|   | DDW-URD-UV1-1 |       |          | 450.00...900.00 | 20 |     |


| Package | Type | #1 Emission Color<br>I <sub>dom</sub> (typ) [nm]<br>I <sub>v</sub> [mcd] | #2 Emission Color<br>I <sub>dom</sub> (typ) [nm]<br>I <sub>v</sub> [mcd] | At I <sub>F</sub> [mA] | Color Of Emission Area | 2j (typ.) (50% I <sub>v</sub> ) [deg.] |
|---------|------|--|--|------------------------|------------------------|--|
|---------|------|--|--|------------------------|------------------------|--|

### AlGaAs Technology Multi DomiLED (Bi-Color)



|   |                  |                                   |                                |    |       |     |
|---|------------------|-----------------------------------|--------------------------------|----|-------|-----|
|  | DMHG-GJS-NP+LM-1 | Hyper Red<br>645<br>28.50...71.50 | Green<br>570<br>11.20...28.50  | 20 | Clear | 120 |
|   | DMRG-GJS-LM+MN-1 | Red<br>625<br>11.20...28.50       | Green<br>570<br>18.00...45.00  | 20 | Clear | 120 |
|   | DMRY-GJS-LM+LM-1 | Red<br>625<br>11.20...28.50       | Yellow<br>587<br>11.20...28.50 | 20 | Clear | 120 |
|   | DMYG-GJS-LM+MN-1 | Yellow<br>587<br>11.20...28.50    | Green<br>570<br>18.00...45.00  | 20 | Clear | 120 |

| Package | Type | #1 Emission Color<br>$I_{dom}$ (typ) [nm]<br>$I_v$ [mcd] | #2 Emission Color<br>$I_{dom}$ (typ) [nm]<br>$I_v$ [mcd] | At $I_F$ [mA] | Color Of Emission Area | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|--|--|---------------|------------------------|--------------------------------------|
|---------|------|--|--|---------------|------------------------|--------------------------------------|

### Multi DomiLED (Bi-Color)

|   |                  |                                    |                                      |    |       |     |
|---|------------------|------------------------------------|--------------------------------------|----|-------|-----|
|  | DMSG-CJS-QR+PQ-1 | Super Red<br>632<br>71.50...180.00 | Green<br>570<br>45.00...112.50       | 20 | Clear | 120 |
|   | DMSG-CJS-PQ+PQ-1 | Super Red<br>632<br>45.00...112.50 | Green<br>570<br>45.00...112.50       | 20 | Clear | 120 |
|   | DMSY-CJS-QR+ST-1 | Super Red<br>632<br>71.50...180.00 | Yellow<br>587<br>180.00...450.00     | 20 | Clear | 120 |
|   | DMST-CJS-PQ+RS-1 | Super Red<br>632<br>45.00...112.50 | True Green<br>525<br>112.50...285.00 | 20 | Clear | 120 |
|   | DMSB-CJS-PQ+RS-1 | Super Red<br>632<br>45.00...112.50 | Blue<br>470<br>112.50...285.00       | 20 | Clear | 120 |
|   | DMRG-SJS-RS+QR-1 | Red<br>625<br>112.50...285.00      | Green<br>570<br>71.50...180.00       | 20 | Clear | 120 |
|   | DMRG-CJS-RS+PQ-1 | Red<br>625<br>112.50...285.00      | Green<br>570<br>45.00...112.50       | 20 | Clear | 120 |
|   | DMRG-CJS-RS+QR-1 | Red<br>625<br>112.50...285.00      | Green<br>570<br>71.50...180.00       | 20 | Clear | 120 |
|   | DMRY-CJS-RS+RS-1 | Red<br>625<br>112.50...285.00      | Yellow<br>587<br>112.50...285.00     | 20 | Clear | 120 |
|   | DMOT-CJS-RS+RS-1 | Orange<br>605<br>112.50...285.00   | True Green<br>525<br>112.50...285.00 | 20 | Clear | 120 |
|   | DMAY-SJS-ST+ST-1 | Amber<br>615<br>180.00...450.00    | Yellow<br>587<br>180.00...450.00     | 20 | Clear | 120 |

| Package | Type | #1 Emission Color<br>$I_{dom}$ (typ) [nm]<br>Iv [mcd] | #2 Emission Color<br>$I_{dom}$ (typ) [nm]<br>Iv [mcd] | At $I_F$ [mA] | Color Of Emission Area | 2j (typ.) (50% Iv) [deg.] |
|---------|------|---|---|---------------|------------------------|---------------------------|
|---------|------|---|---|---------------|------------------------|---------------------------|

|   |                  |                                    |                                      |    |       |     |
|---|------------------|------------------------------------|--------------------------------------|----|-------|-----|
|    | DMYB-CJS-RS+PQ-1 | Yellow<br>587<br>112.50...285.00   | Blue<br>470<br>45.00...112.50        | 20 | Clear | 120 |
|   | DMYT-CJS-RS+RS-1 | Yellow<br>587<br>112.50...285.00   | True Green<br>525<br>112.50...285.00 | 20 | Clear | 120 |
|   | DKRT-NJS-TU+VW-1 | Red<br>625<br>285.00...715.00      | True Green<br>525<br>715.00...1800   | 20 | Clear | 120 |
|   | DMRT-CJS-RS+RS-1 | Red<br>625<br>112.50...285.00      | True Green<br>525<br>112.50...285.00 | 20 | Clear | 120 |
|   | DMGY-CJS-PQ+RS-1 | Green<br>570<br>45.00...112.50     | Yellow<br>587<br>112.50...450.00     | 20 | Clear | 120 |
|  | DKST-MJB-UV+UV-1 | Super Red<br>632<br>450.0...1125.0 | True Green<br>525<br>450.0...1125.0  | 20 | Clear | 120 |




| Package | Type | Emission Color | $I_{\text{dom}}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | 2j (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|-----------------------------|-------------------------|-------------|---------------|-------------------------------|
|---------|------|----------------|-----------------------------|-------------------------|-------------|---------------|-------------------------------|

### Multi DomiLED (Tri-Color)


|  |                         |                               |                                      |                                |    |       |     |
|--|-------------------------|-------------------------------|--------------------------------------|--------------------------------|----|-------|-----|
|  | DMRTB-UJB-ST3+UV3+RS3-1 | Red<br>625<br>140.00...285.00 | True Green<br>525<br>285.0...560.0   | Blue<br>470<br>100.00...200.00 | 20 | Clear | 120 |
|  | D6RTB-HJD-TU+UV+ST-1    | Red<br>625<br>320.0...637.0   | True Green<br>525<br>715.00...1400.0 | Blue<br>470<br>202.00...405.00 | 20 | Clear | 120 |
|  | D6RTB-PJD-UV+UW+ST-1    | Red<br>625<br>715.0...1400.0  | True Green<br>525<br>900.0...1764.0  | Blue<br>470<br>212.00...420.00 | 20 | Clear | 120 |

### Maxi DomiLED


|  |                            |                               |                                       |                                |    |       |     |
|--|----------------------------|-------------------------------|---------------------------------------|--------------------------------|----|-------|-----|
|  | DBRTB-DJB-U1U2+V2W1+S2T1-1 | Red<br>625<br>450.00...715.00 | True Green<br>525<br>900.00...1400.00 | Blue<br>470<br>224.00...355.00 | 20 | Clear | 120 |
|--|----------------------------|-------------------------------|---------------------------------------|--------------------------------|----|-------|-----|

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | 2j (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|-------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|-------------------------------|

### AllnGaP Technology Mini DomiLED


|  |                  |           |       |                |                  |     |     |
|--|------------------|-----------|-------|----------------|------------------|-----|-----|
|  | DRH-MJS-HJ2-1    | Hyper Red | 660   | Clear          | 2.85...7.20      | 20  | 120 |
|  | DNH-CJS-N2Q1-1   |           | 645   | Clear          | 35.50...90.00    | 20  |     |
|  | DNS-AJS-J2L1-1   | Super Red | 632   | Clear          | 5.60...14.00     | 2   | 120 |
|  | DNS-CJS-PQ2-1    |           |       |                | 45.00...112.50   | 20  |     |
|  | DNS-CJS-QR1-1    |           |       |                | 71.50...140.00   | 20  |     |
|  | DNS-CJS-Q2S1-1   |           |       |                | 90.00...224.00   | 20  |     |
|  | DNS-MJS-UV1-1    |           |       |                | 450.00...900.00  | 30  |     |
|  | DNR-CJS-RS2-1    | Red       | 625   | Clear          | 112.50...285.00  | 20  | 120 |
|  | DNR-PJS-VW1-1    |           |       |                | 715.00...1400.00 | 20  |     |
|  | DNA-AJS-K2M1-1   | Amber     | 615   | Clear          | 9.00...22.40     | 2   | 120 |
|  | DNA-CJS-RS2-1    |           |       |                | 112.50...285.00  | 20  |     |
|  | DNA-MJS-U2V-1    |           |       |                | 560.00...1125.00 | 30  |     |
|  | DNA-PJS-V2W-1    |           |       |                | 900.00...1800.00 | 20  |     |
|  | DNO-AJS-K2M1-1   | Orange    | 605   | Clear          | 9.00...22.40     | 2   | 120 |
|  | DNO-CJS-RS2-1    |           |       |                | 112.50...285.00  | 20  |     |
|  | DNO-MJS-VW1-1    |           |       |                | 715.00...1400.00 | 30  |     |
|  | DNY-AJS-K2M1-1   | Yellow    | 587   | Clear          | 9.00...22.40     | 2   | 120 |
|  | DNY-CJS-RS2-1    |           |       |                | 112.50...285.00  | 20  |     |
|  | DNY-MJS-U2V-1    |           |       |                | 560.00...1125.00 | 30  |     |
| DNY-PJS-VW1-1  | 715.00...1400.00 |           |       |                | 20               |     |     |
| DNG-CJS-PQ2-1  | Green            | 570       | Clear | 45.00...112.50 | 20               | 120 |     |
| DNP-CJS-LM2-1  | Pure Green       | 560       | Clear | 11.20...28.50  | 20               | 120 |     |
| DNP-SJS-NP2-1-I3   |                  |           |       | 28.50...71.50  | 30               |     |     |

### InGaN Technology Mini DomiLED


|   |                |            |     |       |                  |    |     |
|---|----------------|------------|-----|-------|------------------|----|-----|
|  | DNT-TJS-QR2-1  | True Green | 525 | Clear | 71.50...180.00   | 10 | 120 |
|   | DNT-UJS-S2U1-1 |            |     |       | 224.00...560.00  | 20 |     |
|   | DNT-DZJS-ST2-1 |            |     |       | 180.00...450.00  | 20 |     |
|   | DNT-DZJS-VW1-1 |            |     |       | 715.00...1400.00 | 20 |     |
|   | DNB-UJS-RS1-1  | Blue       | 470 | Clear | 112.50...224.00  | 20 | 120 |
|   | DNB-UJS-R2S-1  |            |     |       | 140.00...285.00  |    |     |
|   | DNB-DZJS-ST2-1 |            |     |       | 180.00...450.00  |    |     |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2j$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|

### InGaN White Technology Mini DomiLED


|   |                    |          |   |          |                  |    |     |
|---|--------------------|----------|---|----------|------------------|----|-----|
|  | DNZB-CJG-LM2-1     | Ice Blue | - | Diffused | 11.20...28.50    | 2  | 120 |
|   | DNW-JJG-M2P1-1-I-1 | White    | - | Diffused | 22.40...56.00    | 10 | 120 |
|   | DNW-UJG-TU2-1      |          |   |          | 285.00...715.00  | 20 |     |
|   | DNW-UJG-UV2-1      |          |   |          | 450.00...1125.00 | 20 |     |

### AllnGaP Technology Right Angle DomiLED


|   |                  |           |       |                |                  |     |     |
|---|------------------|-----------|-------|----------------|------------------|-----|-----|
|  | DSS-ASS-J2L1-1   | Super Red | 632   | Clear          | 5.60...14.00     | 2   | 120 |
|   | DSS-CSS-PQ2-1    |           |       |                | 45.00...112.50   | 20  |     |
|   | DSS-NSS-T2U-1    |           |       |                | 355.00...715.00  | 20  |     |
|   | DSR-CSS-RS2-1    | Red       | 625   | Clear          | 112.50...285.00  | 20  | 120 |
|   | DSR-TSS-ST2-1    |           |       |                | 180.0...450.00   | 20  |     |
|   | DSR-NSS-T2U-1    |           |       |                | 355.00...715.00  | 20  |     |
|   | DSA-ASS-LM2-1    | Amber     | 615   | Clear          | 11.20...28.50    | 2   | 120 |
|   | DSA-CSS-QR2-1    |           |       |                | 71.50...180.00   | 20  |     |
|   | DSA-CSS-RS2-1    |           |       |                | 112.50...285.00  | 20  |     |
|   | DSA-NSS-UV1-1    |           |       |                | 450.00...900.00  | 20  |     |
|   | DSA-PSS-V2W-1    |           |       |                | 900.00...1800.00 | 20  |     |
|   | DSO-CSS-QR2-1    | Orange    | 605   | Clear          | 71.50...180.00   | 20  | 120 |
|   | DSO-CSS-RS2-1    |           |       |                | 112.50...285.00  | 20  |     |
|   | DSY-ASS-LM2-1    | Yellow    | 587   | Clear          | 11.20...28.50    | 2   | 120 |
|   | DSY-CSS-RS2-1    |           |       |                | 112.50...285.00  | 20  |     |
|   | DSY-NSS-UV1-1    |           |       |                | 450.00...900.00  | 20  |     |
| DSY-PSS-VW1-1   | 715.00...1400.00 |           |       |                | 20               |     |     |
| DSG-ASS-H2K1-1  | Green            | 570       | Clear | 3.55...9.00    | 2                | 120 |     |
| DSG-CSS-PQ2-1   |                  |           |       | 45.00...112.50 | 20               |     |     |
| DSP-SSS-LM2-1   | Pure Green       | 560       | Clear | 11.20...28.50  | 20               | 120 |     |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2j$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|

### InGaN Technology Right Angle DomiLED


|   |               |            |     |       |                  |    |     |
|---|---------------|------------|-----|-------|------------------|----|-----|
|  | DST-USS-TU2-1 | True Green | 525 | Clear | 285.00...715.00  | 20 | 120 |
|   | DST-USS-UV1-1 |            |     |       | 450.00...900.00  |    |     |
|   | DST-DSS-VW1-1 |            |     |       | 715.00...1400.00 |    |     |
|   | DSB-USS-QR2-1 | Blue       | 470 | Clear | 71.50...180.00   | 20 | 120 |
|   | DSB-USS-ST1-1 |            |     |       | 180.00...355.00  |    |     |
|   | DSB-DSS-ST2-1 |            |     |       | 180.00...450.00  |    |     |

### InGaN White Technology Right Angle DomiLED

|   |               |            |   |          |                   |    |     |
|---|---------------|------------|---|----------|-------------------|----|-----|
|  | DSW-USD-UV1-1 | White      | - | Diffused | 450.00...900.00   | 20 | 120 |
|   | DSW-USD-UV1-1 |            |   |          | 450.00...900.00   |    |     |
|   | DSW-NSG-V2W-1 |            |   |          | 900.00...1800.00  |    |     |
|   | DSW-LSG-WX1-1 |            |   |          | 1125.00...2240.00 |    |     |
|   | DSF-NSG-V2W-1 | Warm White | - | Diffused | 900.00...1800.00  | 20 | 120 |


| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2j$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------|

### AllnGaP Technology Power DomiLED


|   |                   |                |     |       |                   |       |     |
|---|-------------------|----------------|-----|-------|-------------------|-------|-----|
|  | DWS-SJS-ST2-1     | Super Red      | 632 | Clear | 180.00...450.00   | 50    | 120 |
|   | DWS-SJS-T2V1-1    |                |     |       | 355.00...900.00   | 50    |     |
|   | DWS-EJS-VW1-1     |                |     |       | 715.00...1400.00  | 50    |     |
|   | DWS-MJS-WX1-1     |                |     |       | 1125.00...2240.00 | 50    |     |
|   | DWR-SJS-TU2-1     | Red            | 625 | Clear | 285.00...715.00   | 50    | 120 |
|   | DWR-TJS-UV2-1     |                |     |       | 450.00...1125.00  | 50    |     |
|   | DWR-EJS-VW1-1     |                |     |       | 715.00...1400.00  | 50    |     |
|   | DWR-TJS-VW2-1     |                |     |       | 715.00...1800.00  | 50    |     |
|   | DWR-MJS-W2X-1     |                |     |       | 1400.00...2850.00 | 50    |     |
|   | DWR-PJG-X2Y1-1    |                |     |       | 2240.00...3550.00 | 50    |     |
|   | DWR-PKG-X2Y1-1    |                |     |       | 2240.00...3550.00 | 50    |     |
|   | DWA-SJS-UV2-1     | Amber          | 615 | Clear | 450.00...1125.00  | 50    | 120 |
|   | DWA-EJS-V2W-1     |                |     |       | 900.00...1800.00  | 50    |     |
|   | DWA-EJS-W2X-1     |                |     |       | 1400.00...2850.00 | 50    |     |
|   | DWA-MJS-W2X-1     |                |     |       | 1400.00...2850.00 | 50    |     |
|   | DWA-MZJS-W2X-1    |                |     |       | 1400.00...2850.00 | 50    |     |
|   | DWA-PJG-X2Y-1     |                |     |       | 2240.00...4500.00 | 50    |     |
|   | DWA-PKG-X2Y-1     |                |     |       | 2240.00...4500.00 | 50    |     |
|   | DWO-SJS-UV2-1     | Orange         | 605 | Clear | 450.00...1125.00  | 50    | 120 |
|   | DWO-EJS-W2X-1     |                |     |       | 1400.00...2850.00 | 50    |     |
|   | DWO-MJS-W2X-1     |                |     |       | 1400.00...2850.00 | 50    |     |
|   | DWY-SJS-UV1-1     | Yellow         | 587 | Clear | 450.00...900.00   | 50    | 120 |
|   | DWY-SJS-U2V-1     |                |     |       | 560.00...1125.00  | 50    |     |
|   | DWY-TJS-UV2-1     |                |     |       | 450.00...1125.00  | 50    |     |
|   | DWY-EJS-V2W-1     |                |     |       | 900.00...1800.00  | 50    |     |
|   | DWY-EJS-W2X-1     |                |     |       | 1400.00...2850.00 | 50    |     |
|   | DWY-MJS-WX1-1     |                |     |       | 1125.0...2240.00  | 50    |     |
|   | DWY-MJS-W2X-1     |                |     |       | 1400.00...2850.00 | 50    |     |
| DWY-MZJS-W2X-1  | 1400.00...2850.00 |                |     |       | 50                |       |     |
| DWY-PJG-X2Y-1   | 2240.00...4500.00 |                |     |       | 50                |       |     |
| DWY-PKG-X2Y-1   | 2240.00...4500.00 |                |     |       | 50                |       |     |
| DWP-SJS-PQ1-1   | Pure Green        |                |     |       | 560               | Clear |     |
| DWP-SJS-P2R1-1  |                   | 56.00...140.00 | 50  |       |                   |       |     |
| DWP-SJS-Q2R-1   |                   | 90.00...180.00 | 50  |       |                   |       |     |

| Package | Type | Emission Color | $I_{\text{dom}}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|-----------------------------|-------------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|-----------------------------|-------------------------|-------------|---------------|--------------------------------------|


### AllInGaP Black Coated Power DomiLED

|   |               |        |     |       |                   |    |     |
|---|---------------|--------|-----|-------|-------------------|----|-----|
|  | DWR-MJB-W2X-1 | Red    | 625 | Clear | 1400.00...2850.00 | 50 | 120 |
|   | DWY-MJB-W2X-1 | Yellow | 587 | Clear | 1400.00...2850.00 | 50 | 120 |

### InGaN Technology Power DomiLED

|   |                 |            |     |       |                   |    |     |
|---|-----------------|------------|-----|-------|-------------------|----|-----|
|  | DWT-UJS-UV2-1   | True Green | 525 | Clear | 450.00...1125.00  | 30 | 120 |
|   | DWT-YJG-WX2-1   |            |     |       | 1125.00...2850.00 |    |     |
|   | DWT-LJG-WX2-1   |            |     |       | 1125.00...2850.00 |    |     |
|   | DWC-UJS-UV2-1   | Cyan       | 505 | Clear | 450.00...1125.00  | 30 | 120 |
|   | DWB-UJS-R2S-1   | Blue       | 470 | Clear | 112.50...224.00   | 30 | 120 |
|   | DWB-UJS-S2T-1   |            |     |       | 224.00...450.00   |    |     |
|   | DWB-YJG-TU2-1   |            |     |       | 285.00...715.00   |    |     |
| DWB-LJG-T2V1-1  | 355.00...900.00 |            |     |       |                   |    |     |

### InGaN White Technology Power DomiLED


|   |               |            |   |          |                   |    |     |
|---|---------------|------------|---|----------|-------------------|----|-----|
|  | DWW-UJG-VW1-1 | White      | - | Diffused | 715.00...1400.00  | 30 | 120 |
|   | DWW-UJG-WX1-1 | White      |   |          | 1125.00...2240.00 | 30 |     |
|   | DWW-LJG-W2X-1 | White      |   |          | 1400.00...2850.00 | 30 |     |
|   | DWW-MJG-W2X-1 | White      |   |          | 1400.00...2850.00 | 30 |     |
|   | DWW-MKG-W2X-1 | White      |   |          | 1400.00...6500.00 | 30 |     |
|   | DWW-WJG-XY1-1 | White      |   |          | 1800.00...3550.00 | 30 |     |
|   | DWW-YJG-XY1-1 | White      |   |          | 1800.00...3550.00 | 30 |     |
|   | DWF-UJG-UV2-1 | Warm White | - | Diffused | 450.00...1125.00  | 30 | 120 |
|   | DWF-MKG-W2X-1 | Warm White |   |          | 1400.00...2850.00 | 30 |     |
|   | DWF-YJG-W2X-1 | Warm White |   |          | 1400.00...2850.00 | 30 |     |

### InGaN White DomiPlus


|   |                |       |   |          |                   |    |     |
|---|----------------|-------|---|----------|-------------------|----|-----|
|  | DPW-EJG-3ZCA-1 | White | - | Diffused | 5600.00...8070.00 | 60 | 120 |
|---|----------------|-------|---|----------|-------------------|----|-----|

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | 2 $\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------------|


### White LED SPNova-150

|   |              |            |   |          |                    |     |     |
|---|--------------|------------|---|----------|--------------------|-----|-----|
|  | NPW-MSD-PQ-1 | White      | - | Diffused | 23.50...39.80 (lm) | 150 | 120 |
|   | NPF-MSD-NP-1 | Warm White | - | Diffused | 18.10...30.60 (lm) | 150 | 120 |


### AllInGaP SPNova-1 Watt

|   |                |           |     |       |                     |     |     |
|---|----------------|-----------|-----|-------|---------------------|-----|-----|
|  | NPH-USS-4S3T-1 | Hyper red | 645 | Clear | 250.0...400.00      | 400 | 120 |
|   | NPH-USS-Y2Z-1  |           |     |       | 3550.00...7150.00   | 400 |     |
|   | NPR-MSS-ACD-1  | Red       | 625 | Clear | 11250.00...18000.00 | 400 |     |
|   | NPA-MSS-ABC-1  | Amber     | 615 | Clear | 7150.00...14000.00  | 400 |     |
|   | NPY-MSS-ABC-1  | Yellow    | 587 | Clear | 7150.00...14000.00  | 400 |     |

### AllInGaP SPNova-1 Watt With Lens


|   |               |           |     |       |                   |     |    |
|---|---------------|-----------|-----|-------|-------------------|-----|----|
|  | NPH-US4-AEF-1 | Hyper red | 645 | Clear | 18000.0...28500.0 | 400 | 40 |
|   | NPR-MS4-AHK-1 | Red       | 625 | Clear | 35500.0...71500.0 | 400 | 40 |
|   | NPY-MS4-AHJ-1 | Yellow    | 587 | Clear | 35500.0...56000.0 | 400 | 40 |

### InGaN SPNova-1 Watt


|   |               |            |     |       |                     |     |     |
|---|---------------|------------|-----|-------|---------------------|-----|-----|
|  | NPT-JSG-AEF-1 | True Green | 525 | Clear | 18000.00...28500.00 | 350 | 120 |
|   | NPT-WSG-Y2Z-1 |            |     |       | 3550.00...7150.00   | 350 |     |
|   | NPT-WSG-ADF-1 |            |     |       | 14000.00...28500.00 | 350 |     |
|   | NPB-JSG-ZAA-1 | Blue       | 470 | Clear | 4500.00...9000.00   | 350 | 120 |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|


### White LED SPNova-1 Watt

|   |               |            |   |          |                     |     |     |
|---|---------------|------------|---|----------|---------------------|-----|-----|
|  | NPW-WSD-ST-1  | White      | - | Diffused | 51.70 lm...87.40 lm | 350 | 120 |
|   | NPW-RSD-TU-1  |            |   |          | 67.20 lm...113.6 lm |     | 120 |
|   | NPW-RSZ-TU-1  |            |   |          | 67.20 lm...113.6 lm |     | 135 |
|   | NPW-RHG-T3U-1 |            |   |          | 76.50 lm...113.6 lm |     | 120 |
|   | NPF-WSD-RS-1  | Warm White | - | Diffused | 39.80 lm...67.20 lm | 350 | 120 |
|   | NPF-RSD-T-1   |            |   |          | 67.20 lm...87.40 lm |     | 120 |
|   | NPF-RSZ-T-1   |            |   |          | 67.20 lm...87.40 lm |     | 135 |


### White LED SPNova-1 Watt With Lens

|   |               |       |   |          |                     |     |    |
|---|---------------|-------|---|----------|---------------------|-----|----|
|  | NPW-RS7-AJK-1 | White | - | Diffused | 45.00 cd...71.50 cd | 350 | 70 |
|---|---------------|-------|---|----------|---------------------|-----|----|

### White KNova

|   |              |            |   |          |                     |     |     |
|---|--------------|------------|---|----------|---------------------|-----|-----|
|  | NKW-RGG-TU-1 | White      | - | Diffused | 67.20 lm...113.6 lm | 350 | 120 |
|   | NKF-RGG-T-1  | Warm White | - | Diffused | 67.20 lm...87.40 lm | 350 | 120 |


### AllnGaP KNova

|   |               |        |       |       |                     |     |     |
|---|---------------|--------|-------|-------|---------------------|-----|-----|
|  | NKR-NGG-R3S-1 | Red    | 625nm | Clear | 45.20 lm...67.20 lm | 400 | 120 |
|   | NKA-NHG-R3S-1 | Amber  | 615nm | Clear | 45.20 lm...67.20 lm | 400 | 120 |
|   | NKA-NGG-R3S-1 |        |       |       | 45.20 lm...67.20 lm |     |     |
|   | NKY-NGG-RS2-1 | Yellow | 587nm | Clear | 39.80 lm...59.00 lm | 400 | 120 |
|   | NKY-NGG-R3S-1 |        |       |       | 45.20 lm...67.20 lm |     |     |
|   | NKY-NHG-RS2-1 |        |       |       | 39.80 lm...59.00 lm |     |     |
|   | NKY-NHG-R3S-1 |        |       |       | 45.20 lm...67.20 lm |     |     |




| Package | Type | Emission Color | I <sub>dom</sub> (typ) [nm] | Color of emission area. | I <sub>v</sub> [mcd] | At I <sub>F</sub> [mA] | 2j (typ.) (50% I <sub>v</sub> ) [deg.] |
|---------|------|----------------|-----------------------------|-------------------------|----------------------|------------------------|--|
|---------|------|----------------|-----------------------------|-------------------------|----------------------|------------------------|--|

### InfraRed SPNova



|   |           |                   |   |       |                                |     |     |
|---|-----------|-------------------|---|-------|--------------------------------|-----|-----|
|  | NP8-DSS-1 | Infrared<br>850nm | - | Clear | Min = 35mW/sr<br>Typ = 45mW/sr | 500 | 120 |
|---|-----------|-------------------|---|-------|--------------------------------|-----|-----|

### White LED SPNova-1 Watt

|   |              |            |   |          |                     |     |     |
|---|--------------|------------|---|----------|---------------------|-----|-----|
|  | NPW-WSD-ST-1 | White      | - | Diffused | 51.70 lm...87.40 lm | 350 | 120 |
|   | NPW-RSD-TU-1 |            |   |          | 67.20 lm...113.6 lm |     | 120 |
|   | NPW-RSZ-TU-1 |            |   |          | 67.20 lm...113.6 lm |     | 135 |
|   | NPF-WSD-RS-1 | Warm White | - | Diffused | 39.80 lm...67.20 lm | 350 | 120 |
|   | NPF-RSD-T-1  |            |   |          | 67.20 lm...87.40 lm |     | 120 |
|   | NPF-RSZ-T-1  |            |   |          | 67.20 lm...87.40 lm |     | 135 |


| Package | Type | #1 Emission Color   | #2 Emission Color   | #3 Emission Color   | At I <sub>F</sub> [mA] | Color Of Emission Area | 2j (typ.) (50% I <sub>v</sub> ) [deg.] |
|---------|------|---|---|---|------------------------|------------------------|--|
|         |      | I <sub>dom</sub> (typ) [nm]<br>I <sub>v</sub> Bin<br>I <sub>v</sub> [mcd]<br>Luminous Flux (lm) | I <sub>dom</sub> (typ) [nm]<br>I <sub>v</sub> Bin<br>I <sub>v</sub> [mcd]<br>Luminous Flux (lm) | I <sub>dom</sub> (typ) [nm]<br>I <sub>v</sub> Bin<br>I <sub>v</sub> [mcd]<br>Luminous Flux (lm) |                        |                        |  |

### RGB SPNova


|   |                            |                                       |  |   |     |       |     |
|---|----------------------------|---------------------------------------|--|---|-----|-------|-----|
|  | NMRTB-CSS-T3U3+U3V3+R3S3-1 | Red<br>625<br>T3U3<br>320.0...637.5   | True Green<br>525<br>U3V3<br>715.0...1400.0  | Blue<br>470<br>R3S3<br>140.00...285.00  | 20  | Clear | 130 |
|  | NMRTB-WSG-AAB+ABD+X2Y-1    | Red<br>625<br>AAB<br>7150.0...11250.0 | True Green<br>525<br>ABD<br>9000.0...18000.0 | Blue<br>470<br>X2Y<br>2240.00...4500.00 | 250 | Clear | 130 |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | 2 $\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|---------------------------------------|


### Primax AllInGaP

|   |               |        |     |       |                   |     |     |
|---|---------------|--------|-----|-------|-------------------|-----|-----|
|  | NAR-SSG-ZAA-1 | Red    | 625 | Clear | 4500.00...9000.00 | 140 | 120 |
|   | NAA-SSG-ZAA-1 | Amber  | 615 | Clear | 4500.00...9000.00 | 140 |     |
|   | NAY-SSG-ZAA-1 | Yellow | 587 | Clear | 4500.00...9000.00 | 140 |     |


### Primax InGaN White

|   |                 |            |   |          |                      |     |     |
|---|-----------------|------------|---|----------|----------------------|-----|-----|
|  | NAW-BSC-NP-1    | White      | - | Diffused | 18.0(lm)...30.6(lm)  | 150 | 120 |
|   | NAW-BSG-PQ-1    |            |   |          | 23.5(lm)...39.8(lm)  | 150 |     |
|   | NAW-BHG-PQ-1    |            |   |          | 23.5(lm)...39.80(lm) | 150 |     |
|   | NAW-BSG-Z1Z2-1  |            |   |          | 4500.00...7150.00    | 60  |     |
|   | NAF-BSG-NP-MK   | Warm White | - | Diffused | 18.1(lm)...30.6(lm)  | 150 | 120 |
|   | NAF-BSG-PQ-1    |            |   |          | 23.5(lm)...39.8(lm)  | 150 |     |
|   | NAF-BSG-Y2Z-1   |            |   |          | 3550.00...7150.00    | 60  |     |
|   | NAF-BSG-Y2Z1-MK |            |   |          | 3550.00...5600.00    | 60  |     |

### Primax InGaN


|   |              |            |     |       |               |     |     |
|---|--------------|------------|-----|-------|---------------|-----|-----|
|  | NAT-FSG-NP-1 | True Green | 525 | Clear | 18.10...30.60 | 150 | 120 |
|   | NAB-FSG-HJ-1 | Blue       | 470 | Clear | 4.90...8.20   | 150 | 120 |

### Primax5 InGaN White


|   |               |     |   |          |               |     |     |
|---|---------------|-----|---|----------|---------------|-----|-----|
|  | NSW-FSG-R3S-1 | 120 | - | Diffused | 45.20...67.20 | 150 | 120 |
|   | NSW-FSC-R3S-1 | 120 | - | Diffused | 45.20...67.20 | 150 | 120 |
|   | NSF-FSC-RS2-1 | 120 | - | Diffused | 39.80...59.00 | 150 | 120 |

| Package | Type | Emission Color | $I_{\text{dom}}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2j$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|-----------------------------|-------------------------|-------------|---------------|---------------------------------|
|---------|------|----------------|-----------------------------|-------------------------|-------------|---------------|---------------------------------|


### AllnGaP Technology M-Spice

|   |               |           |     |          |                |    |     |
|---|---------------|-----------|-----|----------|----------------|----|-----|
|  | SMS-CLD-N2P-1 | Super Red | 632 | Diffused | 35.50...71.50  | 20 | 160 |
|   | SMR-CLD-PQ1-1 | Red       | 625 | Diffused | 45.00...90.00  | 20 | 160 |
|   | SMO-CLD-P2Q-1 | Orange    | 605 | Diffused | 56.00...112.50 | 20 | 160 |
|   | SMY-CLD-P2Q-1 | Yellow    | 587 | Diffused | 56.00...112.50 | 20 | 160 |
|   | SMG-CLD-M2N-1 | Green     | 570 | Diffused | 22.40...45.00  | 20 | 160 |

### InGaN Technology M-Spice


|   |                |            |     |          |                 |    |     |
|---|----------------|------------|-----|----------|-----------------|----|-----|
|  | SMT-SLD-L2N1-1 | True Green | 525 | Diffused | 14.00...35.50   | 2  | 160 |
|   | SMT-ULD-ST1-1  |            |     |          | 180.00...355.00 | 20 |     |
|   | SMB-SLD-H2K1-1 | Blue       | 470 | Diffused | 3.55...9.00     | 2  | 160 |
|   | SMB-ULD-PQ1-1  |            |     |          | 45.00...90.00   | 20 |     |

### InGaN White Technology M-Spice


|   |                |       |   |          |                 |    |     |
|---|----------------|-------|---|----------|-----------------|----|-----|
|  | SMW-SLD-LM2-1  | White | - | Diffused | 11.20...28.50   | 2  | 160 |
|   | SMW-SLD-L2N1-1 |       |   |          | 14.00...35.50   | 2  |     |
|   | SMW-ULD-ST2-1  |       |   |          | 180.00...450.00 | 20 |     |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|

### AllnGaP Technology S-Spice


|   |                  |           |          |               |                 |     |     |
|---|------------------|-----------|----------|---------------|-----------------|-----|-----|
|  | SSS-CLD-HJ2-1-I2 | Super Red | 632      | Diffused      | 2.80...7.20     | 2   | 160 |
|   | SSS-CLD-N2P-1    |           |          |               | 35.50...71.50   | 20  |     |
|   | SSS-CLD-P2Q-1    |           |          |               | 56.00...112.50  | 20  |     |
|   | SSS-NLD-ST1-1    |           |          |               | 180.00...355.00 | 20  |     |
|   | SSR-CLD-PQ1-1    | Red       | 625      | Diffused      | 45.00...90.00   | 20  | 160 |
|   | SSR-NLD-S2T-1    |           |          |               | 224.00...450.00 | 20  |     |
|   | SSA-CLD-P2Q-1    | Amber     | 615      | Diffused      | 56.00...112.50  | 20  | 160 |
|   | SSA-NLD-TU1-1    |           |          |               | 285.00...560.00 | 20  |     |
|   | SSO-CLD-JK2-1-I2 | Orange    | 605      | Diffused      | 4.50...11.20    | 2   | 160 |
|   | SSO-CLD-P2Q-1    |           |          |               | 56.00...112.50  | 20  |     |
|   | SSO-CLD-QR1-1    |           |          |               | 71.50...140.00  | 20  |     |
|   | SSO-NLD-TU1-1    |           |          |               | 285.00...560.00 | 20  |     |
|   | SSY-CLD-JK2-1-I2 | Yellow    | 587      | Diffused      | 4.50...11.20    | 2   | 160 |
|   | SSY-CLD-P2Q-1    |           |          |               | 56.00...112.50  | 20  |     |
| SSY-CLD-Q2R-1   | 90.00...180.00   |           |          |               | 20              |     |     |
| SSY-NLD-TU1-1   | 285.00...560.00  |           |          |               | 20              |     |     |
| SSG-CLD-M2N-1   | Green            | 570       | Diffused | 22.40...45.00 | 20              | 160 |     |
| SSP-CLD-KL1-1   | Pure Green       | 525       | Diffused | 7.20...14.00  | 20              | 160 |     |

### InGaN Technology S-Spice

|   |                |            |     |          |                 |    |     |
|---|----------------|------------|-----|----------|-----------------|----|-----|
|  | SST-SLD-L2N1-1 | True Green | 525 | Diffused | 14.00...35.50   | 2  | 160 |
|   | SST-ULD-ST1-1  |            |     |          | 180.00...355.00 | 20 |     |
|   | SST-HLD-TU2-1  |            |     |          | 285.00...715.00 | 20 |     |
|   | SSB-SLD-H2K1-1 | Blue       | 470 | Diffused | 3.55...9.00     | 2  | 160 |
|   | SSB-ULD-PQ1-1  |            |     |          | 45.00...90.00   | 20 |     |
|   | SSB-HLD-P2R1-1 |            |     |          | 56.00...140.00  | 20 |     |
|   | SSC-ULD-Q2S1-1 | Cyan       | 505 | Diffused | 90.00...224.00  | 20 | 160 |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | Color of emission area. | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------------------|-------------|---------------|--------------------------------------|

### InGaN White Technology S-Spice

|   |                    |            |   |          |                 |    |     |
|---|--------------------|------------|---|----------|-----------------|----|-----|
|  | SSW-SLD-LM2-1      | White      | - | Diffused | 11.20...28.50   | 2  | 160 |
|   | SSW-SLD-L2N1-1     |            |   |          | 14.00...35.50   | 2  |     |
|   | SSW-ULD-QR2-3K8L-1 |            |   |          | 71.50...180.00  | 10 |     |
|   | SSW-ULD-QR2-5K8L-1 |            |   |          | 71.50...180.00  | 10 |     |
|   | SSW-ULD-ST2-1      |            |   |          | 180.00...450.00 | 20 |     |
|   | SSW-LLG-T2U-1      |            |   |          | 355.00...715.00 | 20 |     |
|   | SSW-HLG-UV1-1      |            |   |          | 450.0...900.00  | 20 |     |
|   | SSF-HLG-UV1-1      | Warm White | - | Diffused | 450.00...900.00 | 20 | 160 |

1. Standard packing quantity is 2000 units per reel for DomiLED, RG DomiLED, Power DomiLED and Multi DomiLED.
2. Standard packing quantity is 2500 units per reel for Right Angle DomiLED .
3. Standard packing quantity is 3000 units per reel for Mini DomiLED and SpiceLED.
4. Standard packing quantity is 1000 units per reel for Primax, SPNova 1-Watt with lens.
5. Standard packing quantity is 2000 units per reel for SPNova-50/150/1-Watt.
6. Due to the multiple bins for Multi DomiLED, the standard packing may comes in quantity of 500, 750, 1000, 1250, 1500, 1750 & 2050 units per reel.
7. Luminous intensity is measured with an accuracy of  $\pm 11\%$ .
8. Wavelength binning is also available as an option for Multi DomiLED(Tri-Color). Please refer to the following table for details.

| Color                 | Group | Wavelength distribution (nm) |
|-----------------------|-------|------------------------------|
| Super-red             | Full  | 625 – 640                    |
| Red                   | Full  | 620 – 630                    |
| * For TS AlInGaP, GaP |       | 620 – 635                    |
| Amber                 | Full  | 610 – 621                    |
|                       | W     | 610 - 615                    |
|                       | X     | 615 - 621                    |
| Orange                | Full  | 600 - 612                    |
|                       | W     | 600 - 603                    |
|                       | X     | 603 - 606                    |
|                       | Y     | 606 - 609                    |
|                       | Z     | 609 - 612                    |
| Yellow                | Full  | 582 - 594                    |
|                       | W     | 582 - 585                    |
|                       | X     | 585 - 588                    |
|                       | Y     | 588 - 591                    |
|                       | Z     | 591 - 594                    |
| Green                 | Full  | 564.5 – 576.5                |
|                       | W     | 564.5 – 567.5                |
|                       | X     | 567.5 – 570.5                |
|                       | Y     | 570.5 – 573.5                |
|                       | Z     | 573.5 – 576.5                |

|            |      |               |
|------------|------|---------------|
| Pure Green | Full | 552.5 – 564.5 |
|            | W    | 552.5 – 555.5 |
|            | X    | 555.5 – 558.5 |
|            | Y    | 558.5 – 561.5 |
|            | Z    | 561.5 – 564.5 |
| True Green | Full | 520 - 536     |
|            | W    | 520 - 524     |
|            | X    | 524 - 528     |
|            | Y    | 528 – 532     |
|            | Z    | 532 - 536     |
| Cyan       | Full | 499 - 511     |
|            | W    | 499 - 503     |
|            | X    | 503 - 507     |
|            | Y    | 507 – 511     |
|            |      |               |
| Blue       | Full | 464 - 476     |
|            | W    | 464 - 468     |
|            | X    | 468 - 472     |
|            | Y    | 472 - 476     |
|            |      |               |
| Light Blue | Full | 454 - 466     |
|            | W    | 454 - 458     |
|            | X    | 458 - 462     |
|            | Y    | 462 - 466     |
|            |      |               |

### LAMP PRODUCT PART NO DESIGNATION

|    |    |    |    |    |   |    |    |    |    |     |   |     |     |     |     |     |     |     |     |   |     |   |     |     |
|----|----|----|----|----|---|----|----|----|----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|---|-----|-----|
| L  | 5  | B  |    |    |   | C  | 3  | 0  | 0  | 0   |   | P   | 1   | R   | 2   |     |     |     |     |   |     | 4 | 0   | 0   |
| X1 | X2 | X3 | X4 | X5 | - | X6 | X7 | X8 | X9 | X10 | - | X11 | X12 | X13 | X14 | X15 | X16 | X17 | X18 | - | X19 | - | X20 | X21 |

| X1<br>Platform | X2<br>Package                         | X3X4X5<br>for 1 <sup>st</sup> and 2 <sup>nd</sup> color of Multi chip   | X6<br>Chip Categories | X7,X8<br>Viewing Angle   |
|----------------|---------------------------------------|---|-----------------------|--|
|                | <u>Type</u>                           | <u>Color</u> : <u>Wavelength ( <math>\lambda_{dom}</math> )</u>   |                       |  |
| L - Lamp       | 5-5mm<br>3-3mm<br>6-5mm Oval<br>4-4mm | <u>A</u> -Amber : 615 nm<br><u>B</u> -Blue : 470 nm<br><u>C</u> -Cyan : 505 nm<br><u>G</u> -Green : 570 nm<br><u>H</u> -Hyper Red : 645 nm<br><u>L</u> -Light Blue : 460 nm<br><u>O</u> -Orange : 605 nm<br><u>P</u> -Pure Green : 560 nm<br><u>R</u> -Red : 625 nm<br><u>S</u> -Super Red : 632 nm<br><u>T</u> -True Green : 525 nm<br><u>W</u> -White : x = 0.30 y = 0.32<br><u>V</u> -Violet : 405 nm<br><u>Y</u> -Yellow : 587 nm | For internal use      | 15 -15 degree<br>30 - 30 degree<br>45 - 45 degree<br>60 - 60 degree<br>73 - 70/35 degree<br>A4 - 100/40 degree |



| Epoxy<br>Appearance<br>X9 | Mechanical<br>Option<br>X10 | Luminous Intensity Group (mcd)<br>X 11X12X13X14 – 1 <sup>st</sup> Chip family Group; min and max limit<br>X15X16X17X18 – 2 <sup>nd</sup> Chip family Group<br><br>(tested at a current pulse duration of 25ms with accuracy of ± 15%) |        |       |              |         |         |
|---------------------------|-----------------------------|---|--------|-------|--------------|---------|---------|
|                           |                             | Single Group  | min    | max   | Single Group | min     | max     |
| 0 - Clear                 | 0 - Standard                | E1:   | 0.72   | 0.90  | R1:          | 112.50  | 140.00  |
| C - Color tinted          | S - Stand-off               | E2:   | 0.90   | 1.10  | R2:          | 140.00  | 180.00  |
| D – Color &               | R – Right Angle             | F1:   | 1.10   | 1.40  | S1:          | 180.00  | 224.00  |
| E – Diffused &            |                             | F2:   | 1.40   | 1.80  | S2:          | 224.00  | 285.00  |
|                           |                             | G1:   | 1.80   | 2.24  | T1:          | 285.00  | 355.00  |
|                           |                             | G2:   | 2.24   | 2.80  | T2:          | 355.00  | 450.00  |
|                           |                             | H1:   | 2.80   | 3.55  | U1:          | 450.00  | 560.00  |
|                           |                             | H2:   | 3.55   | 4.50  | U2:          | 560.00  | 715.00  |
|                           |                             | J1:   | 4.50   | 5.60  | V1:          | 715.00  | 900.00  |
|                           |                             | J2:   | 5.60   | 7.20  | V2:          | 900.00  | 1125.00 |
|                           |                             | K1:   | 7.20   | 9.00  | W1:          | 1125.00 | 1400.00 |
|                           |                             | K2:   | 9.00   | 11.20 | W2:          | 1400.00 | 1800.00 |
|                           |                             | L1:   | 11.20  | 14.00 | X1:          | 1800.00 | 2240.00 |
|                           |                             | L2:   | 14.00  | 18.00 | X2:          | 2240.00 | 2850.00 |
|                           |                             | M1:   | 18.00  | 22.40 | Y1:          | 2850.00 | 3550.00 |
|                           |                             | M2:   | 22.40  | 28.50 | Y2:          | 3550.00 | 4500.00 |
|                           |                             | N1:   | 28.50  | 35.50 | Z1:          | 4500.00 | 5600.00 |
|                           |                             | N2:   | 35.50  | 45.00 | Z2:          | 5600.00 | 7150.00 |
|                           |                             | P1:   | 45.00  | 56.00 | AA:          | 7150.00 | 9000.00 |
|                           | P2:                         | 56.00   | 71.50  | AB:   | 9000.0       | 11250.0 |         |
|                           | Q1:                         | 71.50   | 90.00  | AC:   | 11250.0      | 14000.0 |         |
|                           | Q2:                         | 90.00   | 112.50 | AD:   | 14000.0      | 18000.0 |         |

| <b>Wavelength Range</b><br><br><b>X19</b><br><br>(W/L subgroups of particular color range)   | <b>Electrical Option</b><br><br><b>X20</b> | <b>Packing Option</b><br><br><b>X21</b>                          |
|--|--|--|
| 1- Single color full group (no selection).<br>2- First 2 gps. ( W & X )<br>3- Next 2 gps. ( X & Y )<br>4- Next 2 gps. ( Y & Z )<br>5- Single wavelength group per shipment<br>6- Two adjacent groups per shipment<br>7- First 3 gp. (W, X & Y)<br>8- Next 3 gp. (X, Y & Z)<br>W - Single group.<br>X - Single group.<br>Y - Single group.<br>Z - Single group. | V – VF bin                                 | 0 – Bulk<br>T – Tape<br>Reel packing<br>A – Tape<br>Ammo packing |


## Wavelength Grouping

| Color                 | Group | Wavelength distribution (nm) |
|-----------------------|-------|------------------------------|
| Super-red             | Full  | 625 – 640                    |
| Red                   | Full  | 620 – 630                    |
| * For TS AlInGaP, GaP |       | 620 – 635                    |
| Amber                 | Full  | 610 – 621                    |
|                       | W     | 610 - 615                    |
|                       | X     | 615 - 621                    |
| Orange                | Full  | 600 - 612                    |
|                       | W     | 600 - 603                    |
|                       | X     | 603 - 606                    |
|                       | Y     | 606 - 609                    |
|                       | Z     | 609 - 612                    |
| Yellow                | Full  | 582 - 594                    |
|                       | W     | 582 - 585                    |
|                       | X     | 585 - 588                    |
|                       | Y     | 588 - 591                    |
|                       | Z     | 591 - 594                    |
| Green                 | Full  | 564.5 – 576.5                |
|                       | W     | 564.5 – 567.5                |
|                       | X     | 567.5 – 570.5                |
|                       | Y     | 570.5 – 573.5                |
|                       | Z     | 573.5 – 576.5                |
| Pure Green            | Full  | 552.5 – 564.5                |
|                       | W     | 552.5 – 555.5                |
|                       | X     | 555.5 – 558.5                |
|                       | Y     | 558.5 – 561.5                |
|                       | Z     | 561.5 – 564.5                |


|            |      |           |
|------------|------|-----------|
| True Green | Full | 520 - 536 |
|            | W    | 520 - 524 |
|            | X    | 524 - 528 |
|            | Y    | 528 - 532 |
|            | Z    | 532 - 536 |
| Cyan       | Full | 499 - 511 |
|            | W    | 499 - 503 |
|            | X    | 503 - 507 |
|            | Y    | 507 - 511 |
| Blue       | Full | 464 - 476 |
|            | W    | 464 - 468 |
|            | X    | 468 - 472 |
|            | Y    | 472 - 476 |
| Light Blue | Full | 454 - 466 |
|            | W    | 454 - 458 |
|            | X    | 458 - 462 |
|            | Y    | 462 - 466 |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------|---------------|--------------------------------------|


### 5mm Round Through-hole LED – AllnGaP Standard Brightness

|   |                  |           |     |                  |    |    |
|---|------------------|-----------|-----|------------------|----|----|
|  | L5S-C3000-UV2-1  | Super Red | 627 | 450.00...1125.00 | 20 | 30 |
|   | L5R-C60E0-ST2-1  | Red       | 625 | 180.00...450.00  | 20 | 60 |
|   | L5A-C3000-VW2-1  | Amber     | 615 | 715.00...1800.00 | 20 | 30 |
|   | L5Y-C3000-VW2-1  | Yellow    | 588 | 715.00...1800.00 | 20 | 30 |
|   | L5Y-C60E0-R2T1-1 | Yellow    | 588 | 140.00...355.00  | 20 | 60 |
|   | L5G-C3000-UV2-1  | Green     | 570 | 450.00...1125.00 | 20 | 30 |

### 5mm Round Through-hole LED – AllnGaP High Brightness


|  |                  |                   |     |                    |    |     |
|--|------------------|-------------------|-----|--------------------|----|-----|
|  | L5S-R1500-ZAB-1  | Super red         | 632 | 4500.00...11250.00 | 20 | 15  |
|  | L5S-R3000-XY2-1  |                   |     | 1800.00...4500.00  |    | 30  |
|  | L5S-R60E0-UV2-1  |                   |     | 450.00...1125.00   |    | 60  |
|  | L5R-R1500-AAD-1  | Red               | 625 | 7150.00...18000.00 | 20 | 15  |
|  | L5R-R3000-W2Y1-1 |                   |     | 1400.00...3550.00  |    | 30  |
|  | L5R-R3000-YZ2-1  |                   |     | 2850.00...7150.00  |    | 30  |
|  | L5R-R3000-ZAA-1  |                   |     | 4500.00...9000.00  |    | 30  |
|  | L5R-R60E0-VW2-1  |                   |     | 715.00...1800.00   |    | 60  |
|  | L5A-R1500-AAD-1  |                   |     | Amber              |    | 615 |
|  | L5A-R3000-YZ2-1  | 2850.00...7150.00 | 30  |                    |    |     |
|  | L5O-R1500-AAD-1  | Orange            | 605 | 7150.00...18000.00 | 20 | 15  |
|  | L5O-R3000-Y2AA-1 |                   |     | 3550.00...9000.00  |    | 30  |
|  | L5O-R60E0-U2W1-1 |                   |     | 560.00...1400.00   |    | 60  |
|  | L5Y-R1500-AAD-1  | Yellow            | 588 | 7150.00...18000.00 | 20 | 15  |
|  | L5Y-R3000-YZ2-1  |                   |     | 2850.00...7150.00  |    | 30  |
|  | L5Y-R3000-ZAA-1  |                   |     | 4500.00...9000.00  |    | 30  |
| L5Y-R60E0-U2W1-1   | 560.00...1400.00 |                   |     | 60                 |    |     |

### 5mm Round Through-hole LED – TS AllnGaP

|   |                 |        |     |                   |    |    |
|---|-----------------|--------|-----|-------------------|----|----|
|  | L5R-T3000-YZ2-1 | Red    | 625 | 2850.00...7150.00 | 20 | 30 |
|   | L5A-T3000-YZ2-1 | Amber  | 605 | 2850.00...7150.00 | 20 | 30 |
|   | L5Y-T3000-YZ2-1 | Yellow | 588 | 2850.00...7150.00 | 20 | 30 |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | $I_v$ [mcd] | At $I_F$ [mA] | 2 $\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------|---------------|---------------------------------------|
|---------|------|----------------|----------------------|-------------|---------------|---------------------------------------|


### 5mm Round Through-hole LED – InGaN High Brightness

|   |                  |            |                    |                     |    |    |
|---|------------------|------------|--------------------|---------------------|----|----|
|  | L5T-E60E0-WX2-1  | True Green | 530                | 1125.00...2850.00   | 20 | 60 |
|   | L5T-E3000-AAC-1  |            |                    | 7150.00...14000.00  | 20 | 30 |
|   | L5T-N1500-ADG-1  |            |                    | 14000.00...35500.00 | 20 | 15 |
|   | L5T-N3000-Z2AC-1 |            |                    | 5600.00...14000.00  | 20 | 30 |
|   | L5T-H1500-AEG-1  |            |                    | 18000.00...35500.00 | 20 | 15 |
|   | L5T-H3000-AAC-1  |            |                    | 7150.00...14000.00  | 20 | 30 |
|   | L5B-E60E0-T2U-1  | Blue       | 470                | 355.00...715.00     | 20 | 60 |
|   | L5B-E3000-W2Y1-1 |            |                    | 1400.00...3550.00   | 20 | 30 |
|   | L5B-N1500-Z1AB-1 |            |                    | 4500.00...11250.00  | 20 | 15 |
|   | L5B-N3000-X2Z1-1 |            |                    | 2240.00...5600.00   | 20 | 30 |
|   | L5B-H1500-Z2AB-1 |            |                    | 5600.00...11250.00  | 20 | 15 |
|   | L5B-H3000-YZ2-1  |            |                    | 2850.00...7150.00   | 20 | 30 |
| L5C-H1500-ADF-1   | Cyan             | 505        | 14000.00...28500.0 | 20                  | 15 |    |
| L5C-H3000-ZAB-1   |                  |            | 4500.00...11250.00 | 20                  | 30 |    |


### 5mm Round Through-hole LED – InGaN White

|   |                  |       |     |                    |    |    |
|---|------------------|-------|-----|--------------------|----|----|
|  | L5W-N1500-ADG-1  | White | 530 | 14000.00...35500.0 | 20 | 15 |
|   | L5W-N3000-Z1AB-1 |       |     | 4500.00...11250.00 | 20 | 30 |

### 5mm Oval Through-hole LED – AllInGaP (70/35)


|   |                  |        |                   |                   |       |       |
|---|------------------|--------|-------------------|-------------------|-------|-------|
|  | L6R-P73C0-X2Z1-1 | Red    | 625               | 2240.00...5600.00 | 20    | 70/35 |
|   | L6Y-R73C0-WX2-1  | Yellow | 590               | 1125.00...2850.00 | 20    | 70/35 |
|   | L6Y-R73C0-X2Y-1  |        | 2240.00...4500.00 | 20                | 70/35 |       |
|   | L6Y-P73C0-YZ2-1  |        | 588               | 2850.00...7150.00 | 20    | 70/35 |

### 5mm Oval Through-hole LED – TS AllInGaP (70/35)


|   |                  |        |     |                   |    |       |
|---|------------------|--------|-----|-------------------|----|-------|
|  | L6R-T73C0-W2Y1-1 | Red    | 625 | 1400.00...3550.00 | 20 | 70/35 |
|   | L6Y-T73C0-WX2-1  | Yellow | 588 | 1125.00...2850.00 | 20 | 70/35 |

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | $I_v$ [mcd] | At $I_F$ [mA] | $2\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------|---------------|--------------------------------------|
|---------|------|----------------|----------------------|-------------|---------------|--------------------------------------|


### 5mm Oval Through-hole LED – InGaN (70/35)

|   |                 |            |     |                   |    |       |
|---|-----------------|------------|-----|-------------------|----|-------|
|  | L6T-E73C0-Y2Z-1 | True Green | 530 | 3550.00...7150.00 | 20 | 70/35 |
|   | L6T-H73C0-YZ2-1 |            |     | 2850.00...7150.00 |    |       |
|   | L6B-E73C0-WX1-1 | Blue       | 470 | 1125.00...2240.00 | 20 | 70/35 |
|   | L6B-H73C0-VW1-1 |            |     | 715.00...1400.00  |    |       |


### 5mm Oval Through-hole LED – AlInGaP (100/40)

|   |                  |        |     |                   |    |        |
|---|------------------|--------|-----|-------------------|----|--------|
|  | L6R-RA4C0-V2X1-1 | Red    | 625 | 900.00...2240.00  | 20 | 100/40 |
|   | L6Y-RA4C0-V2X1-1 | Yellow | 590 | 900.00...2240.00  | 20 | 100/40 |
|   | L6Y-RA4C0-W2X-1  |        |     | 1400.00...2850.00 | 20 |        |

### 5mm Oval Through-hole LED – TS AlInGaP (100/40)

|  |                 |        |     |                  |    |        |
|--|-----------------|--------|-----|------------------|----|--------|
|  | L6R-TA4C0-VW2-1 | Red    | 625 | 715.00...1800.00 | 20 | 100/40 |
|  | L6Y-TA4C0-VW2-1 | Yellow | 588 | 715.00...1800.00 | 20 | 100/40 |


### 5mm Oval Through-hole LED – InGaN (100/40)

|   |                 |            |     |                   |    |        |
|---|-----------------|------------|-----|-------------------|----|--------|
|  | L6T-EA4C0-YZ2-1 | True Green | 525 | 2850.00...7150.00 | 20 | 100/40 |
|   | L6T-HA4C0-YZ2-1 |            |     | 2850.00...7150.00 |    |        |
|   | L6B-EA4C0-UV2-1 | Blue       | 470 | 450.00...1125.00  | 20 | 100/40 |
|   | L6B-HA4C0-UV2-1 |            |     | 450.00...1125.00  |    |        |

### 5mm Oval Through-hole LED – InGaN White (100/40)


|   |                  |       |   |                   |    |        |
|---|------------------|-------|---|-------------------|----|--------|
|  | L6W-NA400-X2Z1-1 | White | - | 2240.00...5600.00 | 20 | 100/40 |
|   | L6W-HA400-X2Z1-1 |       |   | 2240.00...5600.00 | 20 | 100/40 |

### 5mm Oval Through-hole LED – InGaN White (70/30)


|   |                  |       |   |                   |    |       |
|---|------------------|-------|---|-------------------|----|-------|
|  | L6W-N7300-Y2AA-1 | White | - | 3550.00...9000.00 | 20 | 70/30 |
|---|------------------|-------|---|-------------------|----|-------|

| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | $I_v$ [mcd] | At $I_F$ [mA] | 2j (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------|---------------|-------------------------------|
|---------|------|----------------|----------------------|-------------|---------------|-------------------------------|


#### 4mm Oval Through-hole LED – TS AlInGaP (100/50)

|   |                 |        |     |                  |    |        |
|---|-----------------|--------|-----|------------------|----|--------|
|  | L4R-TA5CS-VW2-1 | Red    | 625 | 715.00...1800.00 | 20 | 100/50 |
|   | L4Y-TA5CS-VW2-1 | Yellow | 587 | 715.00...1800.00 | 20 | 100/50 |

#### 4mm Oval Through-hole LED – InGaN (100/50)

|   |                  |            |     |                   |    |        |
|---|------------------|------------|-----|-------------------|----|--------|
|  | L4T-NA5CS-W2Y1-1 | True Green | 525 | 1400.00...3550.00 | 20 | 100/50 |
|   | L4T-EA5CS-X2Y-1  |            |     | 2240.00...4500.00 | 20 | 100/50 |
|   | L4B-NA5CS-VW2-1  | Blue       | 470 | 715.00...1800.00  | 20 | 100/50 |
|   | L4B-EA5CS-UV1-1  |            |     | 450.00...900.00   | 20 | 100/50 |

#### 4mm Oval Through-hole LED – AlInGaP High Brightness (100/50)

|   |                 |        |     |                  |    |        |
|---|-----------------|--------|-----|------------------|----|--------|
|  | L4R-RA5CS-VW2-1 | Red    | 625 | 715.00...1800.00 | 20 | 100/50 |
|   | L4Y-RA5CS-VW2-1 | Yellow | 587 | 715.00...1800.00 | 20 | 100/50 |


#### 4mm Oval Through-hole LED – AlInGaP High Brightness (110/60)

|   |                  |     |     |                  |    |        |
|---|------------------|-----|-----|------------------|----|--------|
|  | L4R-MB6CS-V2X1-1 | Red | 625 | 900.00...2240.00 | 20 | 110/60 |
|---|------------------|-----|-----|------------------|----|--------|




| Package | Type | Emission Color | $I_{dom}$ (typ) [nm] | $I_v$ [mcd] | At $I_F$ [mA] | 2 $\theta$ (typ.) (50% $I_v$ ) [deg.] |
|---------|------|----------------|----------------------|-------------|---------------|---------------------------------------|
|---------|------|----------------|----------------------|-------------|---------------|---------------------------------------|


### 3mm GaP Through-hole LED

|   |                     |           |     |               |    |    |
|---|---------------------|-----------|-----|---------------|----|----|
|  | L3S-C60D0-K2M1-1-I2 | Hyper Red | 632 | 9.00...22.40  | 2  | 60 |
|   | L3S-G50C0-M2P1-1    |           |     | 22.40...56.00 | 10 | 50 |
|   | L3R-G60D0-L2N1-1    | Red       | 625 | 14.00...35.50 | 10 | 60 |
|   | L3Y-G60D0-KL2-1     | Yellow    | 588 | 7.20...18.00  | 10 | 60 |
|   | L3G-G60D0-LM2-1     | Green     | 570 | 11.20...28.50 | 10 | 60 |

### 3mm AlInGaP Through-hole LED

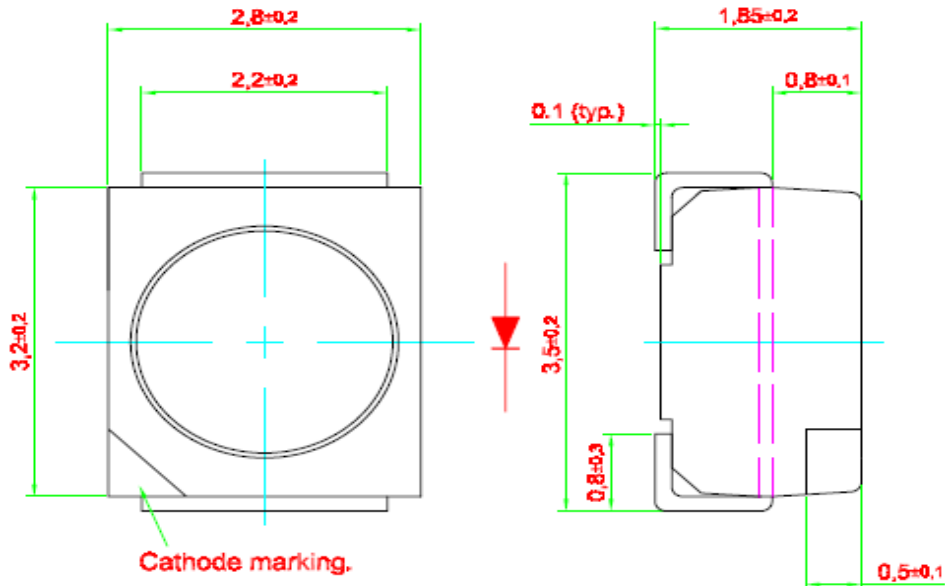
|  |                    |           |                |                  |    |     |
|--|--------------------|-----------|----------------|------------------|----|-----|
|  | L3S-CA0D0-PQ2-1    | Super red | 632            | 45.00...112.50   | 20 | 100 |
|  | L3S-C60D0-R2T1-1   |           |                | 140.00...355.00  | 20 | 60  |
|  | L3S-C5000-S2U1-1   |           |                | 224.00...560.00  | 20 | 50  |
|  | L3R-C60D0-S2U1-1   | Red       | 625            | 224.00...560.00  | 20 | 60  |
|  | L3A-CA0D0-Q2S1-1   | Amber     | 615            | 90.00...224.00   | 20 | 100 |
|  | L3A-C60D0-ST2-1    |           |                | 180.00...450.00  | 20 | 60  |
|  | L3A-C60D0-S2U1-1   |           |                | 224.00...560.00  | 20 | 60  |
|  | L3O-C60D0-TU2-1    | Orange    | 605            | 285.00...715.00  | 20 | 60  |
|  | L3O-C5000-TU2-1    |           |                | 285.00...715.00  | 20 | 50  |
|  | L3O-C5000-UV2-1    |           |                | 450.00...1125.00 | 20 | 50  |
|  | L3Y-C60D0-MN2-1-I2 | Yellow    | 587            | 18.00...45.00    | 2  | 60  |
|  | L3Y-C60D0-ST2-1    |           |                | 180.00...450.00  | 20 | 60  |
|  | L3Y-C5000-TU2-1    |           |                | 285.00...715.00  | 20 | 50  |
|  | L3Y-C5000-UV2-1    |           |                | 450.00...1125.00 | 20 | 50  |
|  | L3G-C60D0-P2R1-1   | Green     | 570            | 56.00...140.00   | 20 | 60  |
| L3P-C60D0-NP2-1  | Pure Green         | 560       | 28.50...71.50  | 20               | 60 |     |
| L3P-C5000-PQ2-1  |                    |           | 45.00...112.50 | 20               | 50 |     |

### 3mm InGaN White Through-hole LED

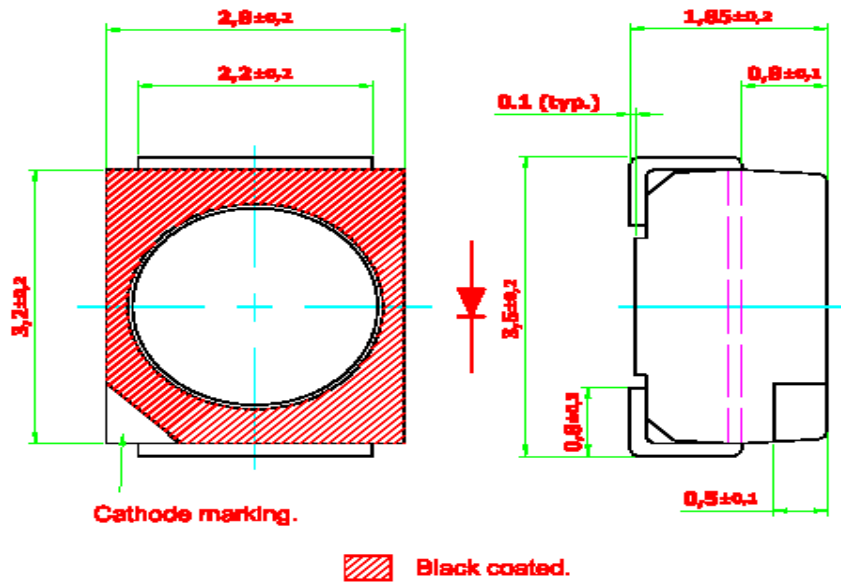
|   |                  |            |   |                    |    |    |
|---|------------------|------------|---|--------------------|----|----|
|  | L3W-U60E0-R2T1-1 | White      | - | 140.00...365.00    | 5  | 60 |
|   | L3W-E60E0-S2U1-1 |            |   | 224.00...560.00    | 5  | 60 |
|   | L3W-U4500-T2V1-1 |            |   | 355.00...900.00    | 5  | 45 |
|   | L3W-L60E0-UV2-1  |            |   | 450.00...1125.00   | 5  | 60 |
|   | L3W-N4500-Z1AB-1 |            |   | 4500.00...11250.00 | 20 | 45 |
|   | L3W-L4500-Z1AB-1 |            |   | 4500.00...11250.00 | 20 | 45 |
|   | L3W-L4500-Z2AC-1 |            |   | 5600.00...14000.00 | 20 | 45 |
|   | L3W-N4500-Z2AC-1 |            |   | 5600.00...14000.00 | 20 | 45 |
|   | L3F-L60E0-UV2-1  | Warm White |   | 450.00...1125.00   | 5  | 60 |

1. Packaging come with bulk or tape & reel or ammo pack.
2. Please refer to datasheet for the details of the packaging specificatio

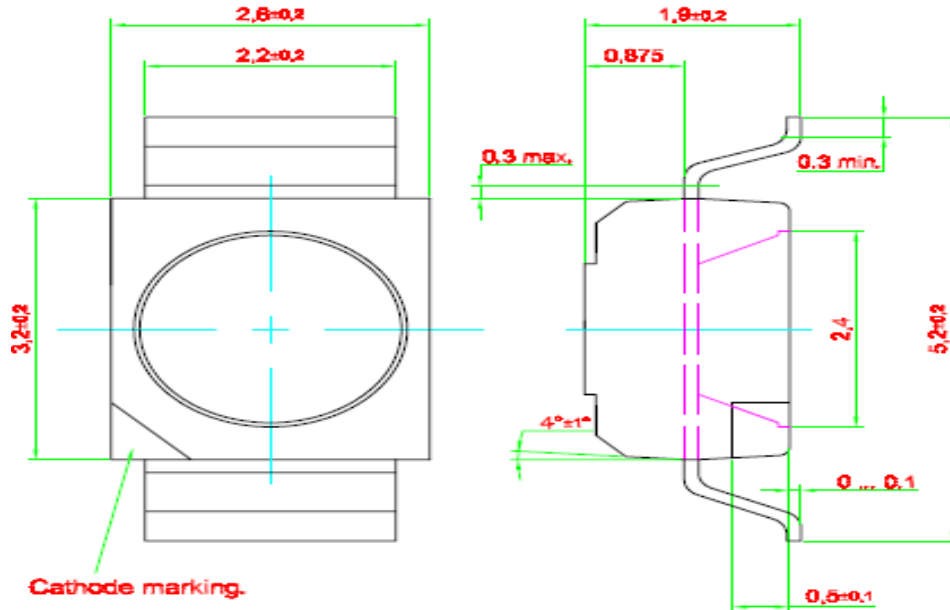
### Package Outline DomiLED



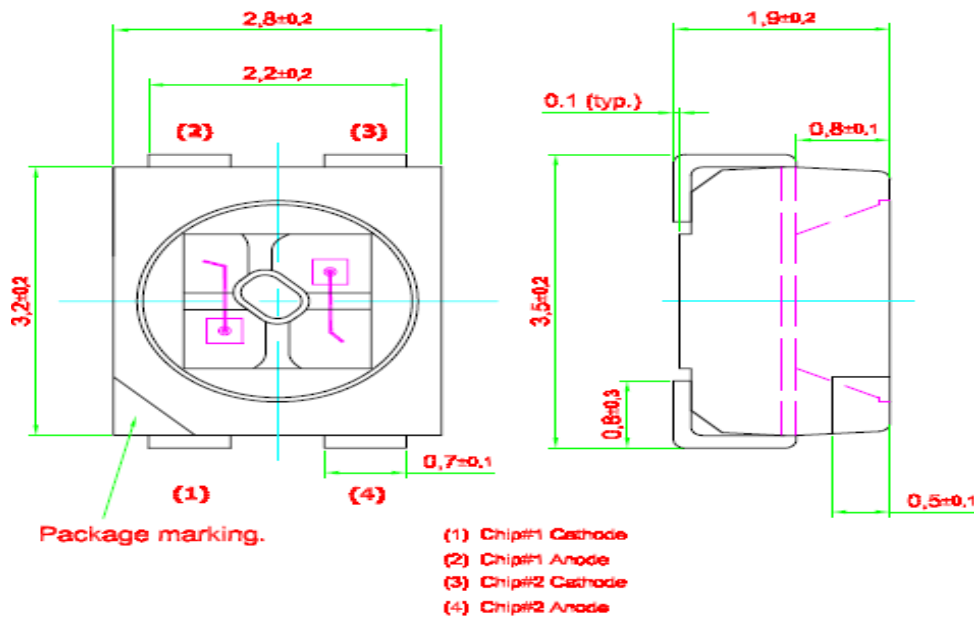
### Colored Resin DomiLED



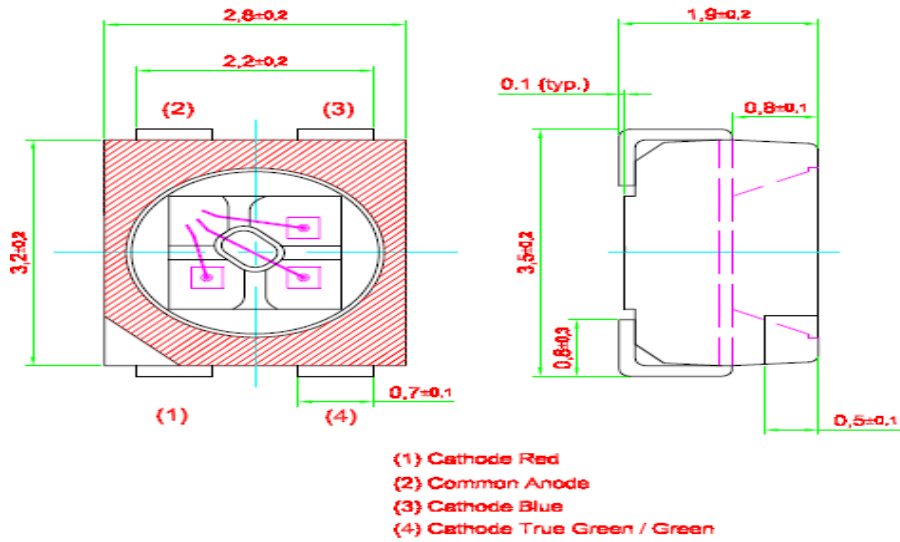
## DomiLED RG



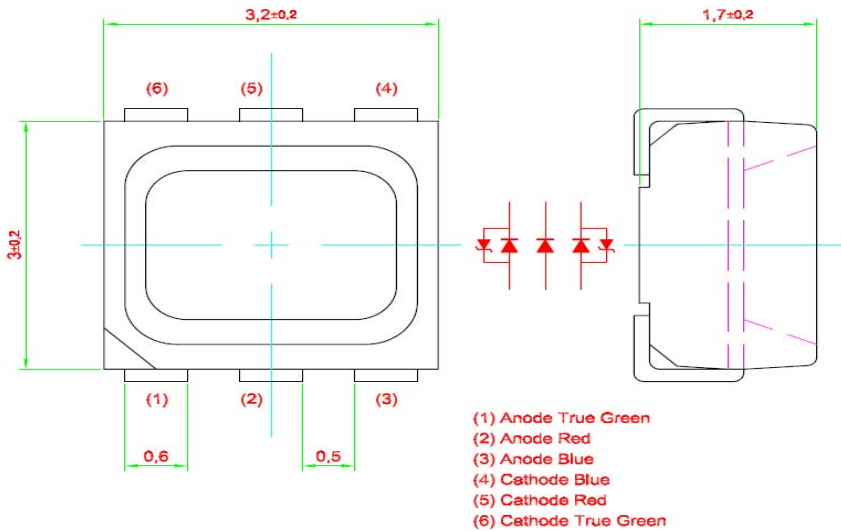
## Multi DomiLED (Bi-Color)



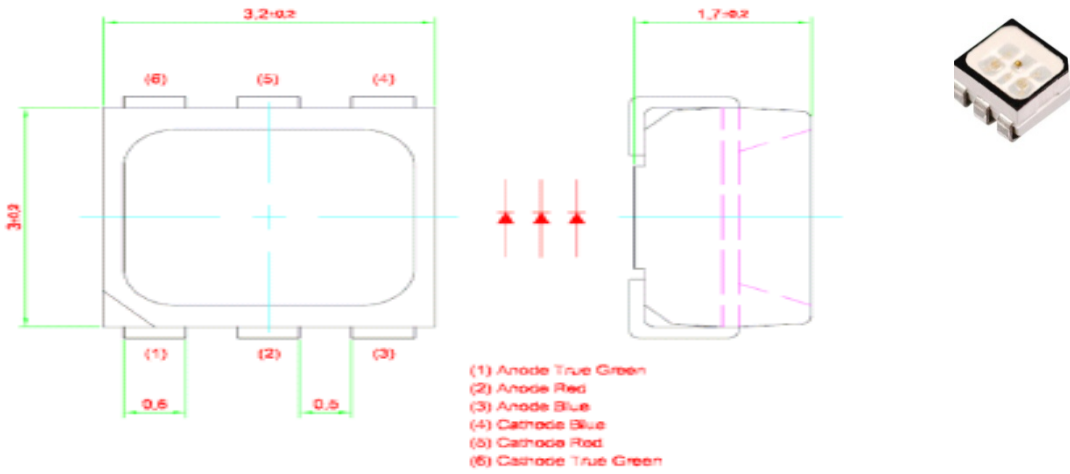
## Multi DomiLED (Tri-Color)



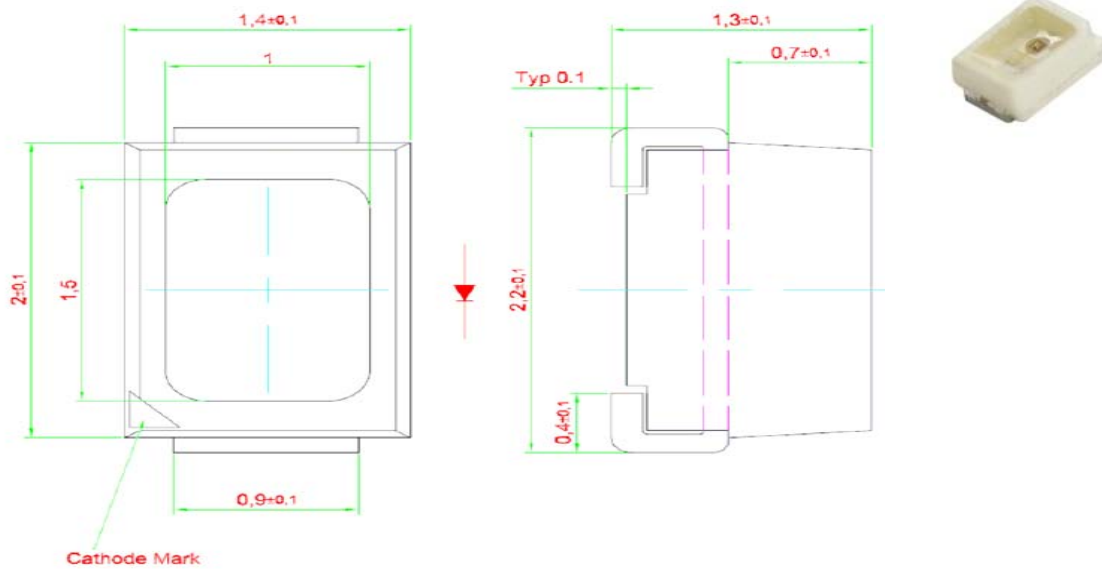
## 6-Lead Multi DomiLED (D6RTB-DJD)



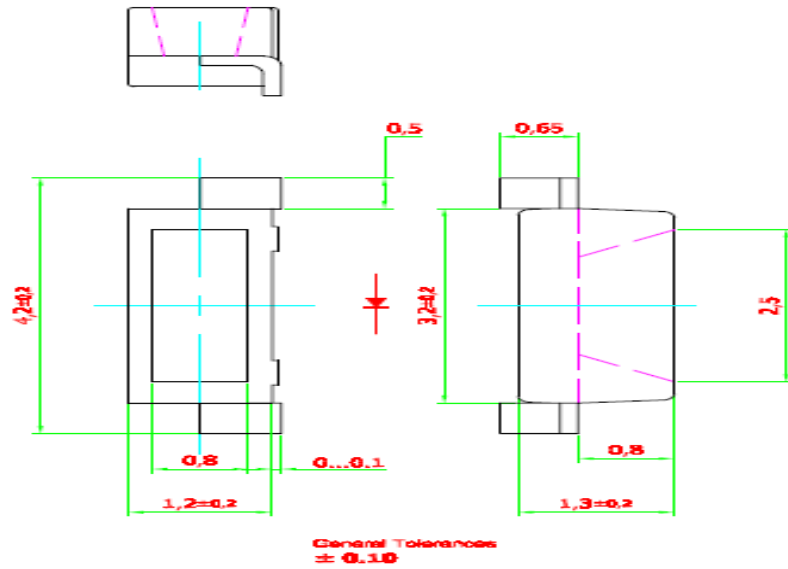
## 6-Lead Multi DomiLED (D6RTB-HJD)



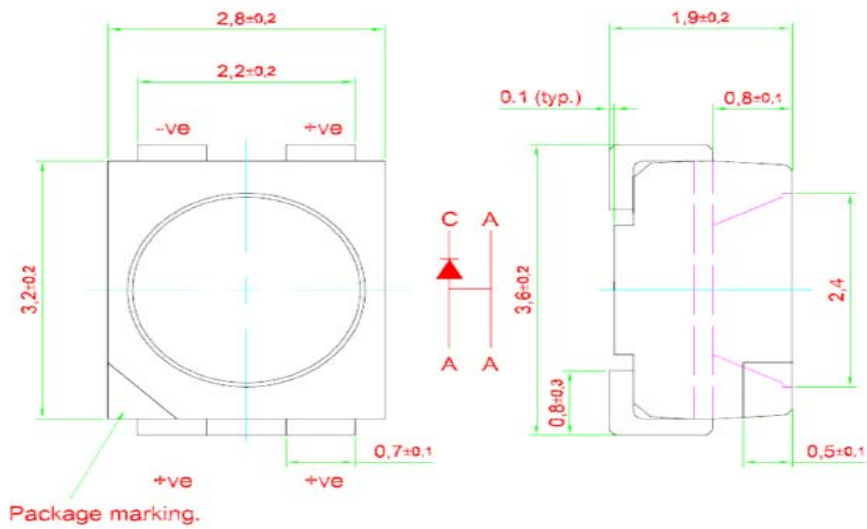
## Mini DomiLED



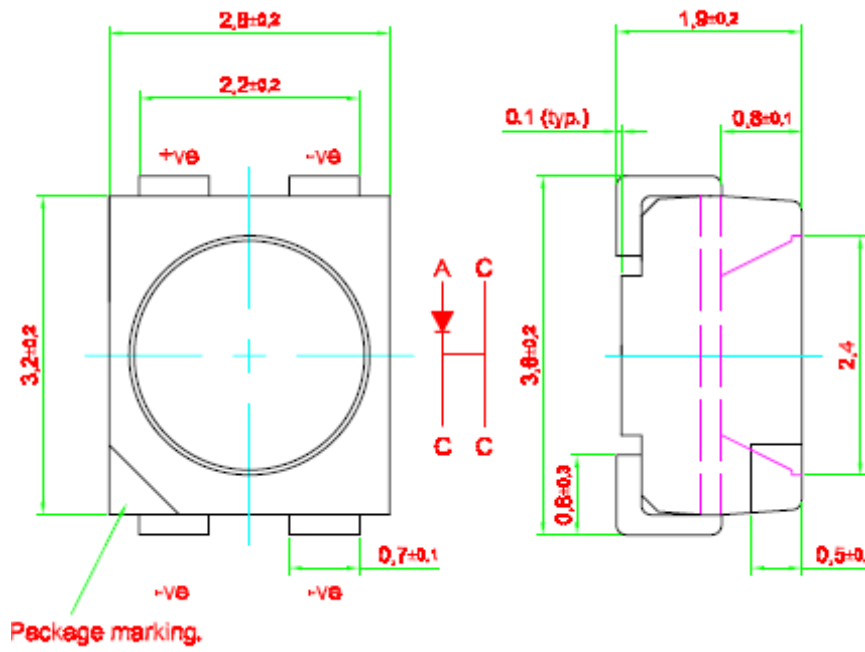
## Right Angle DomiLED



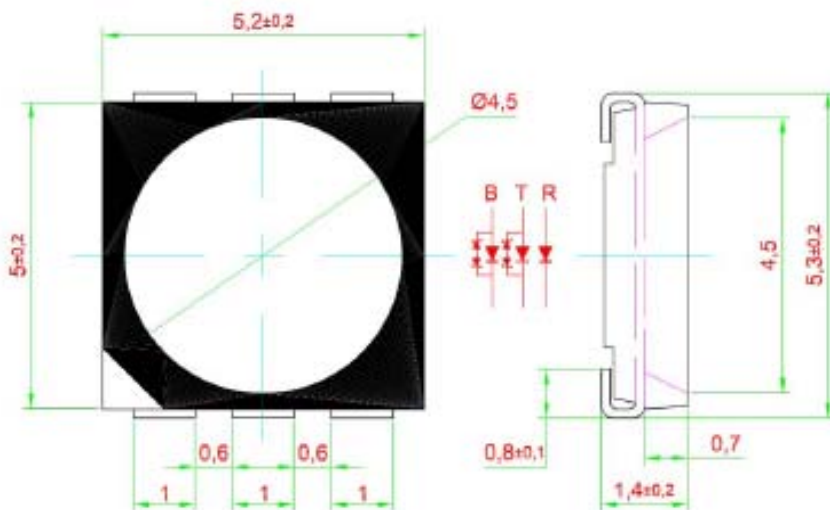
## Power DomiLED (DWx-MJS/DWx-YJG)



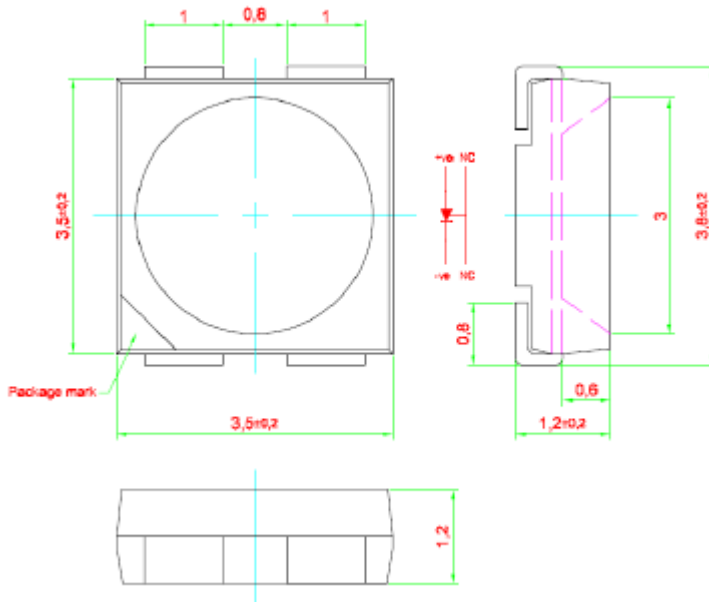
Power DomiLED (DWx-TJS/DWx-SJS/DWx-EJS/DWx-UJS/  
DWx-UJG)



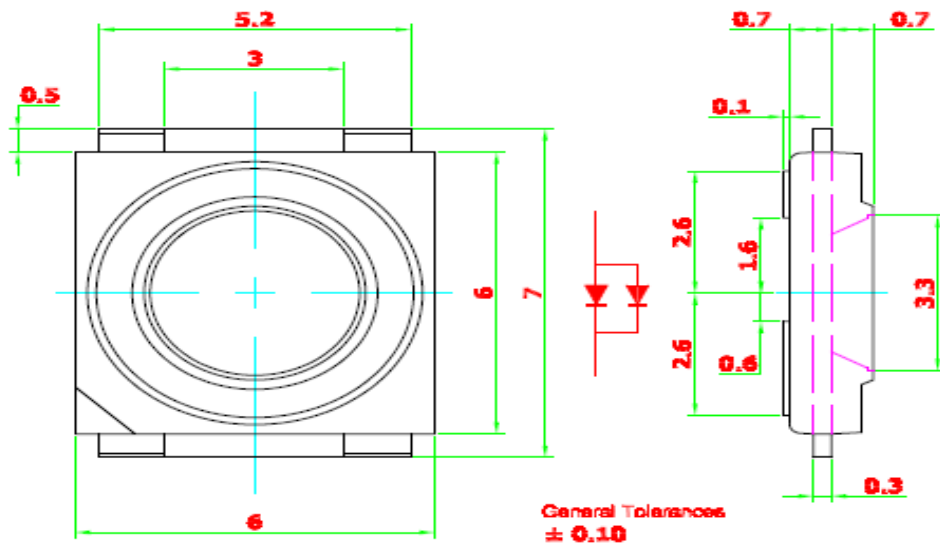
Maxi DomiLED (DBRTB-DJB)



## DomiPlus (DPW-EJG)

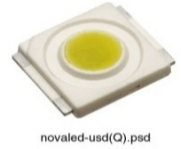
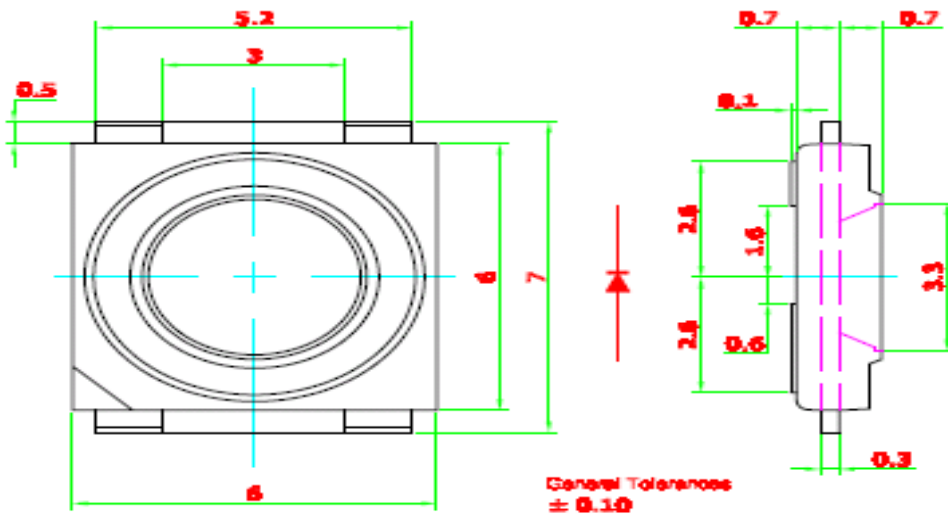


## SPNova-50

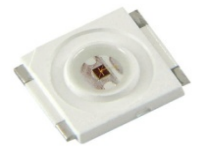
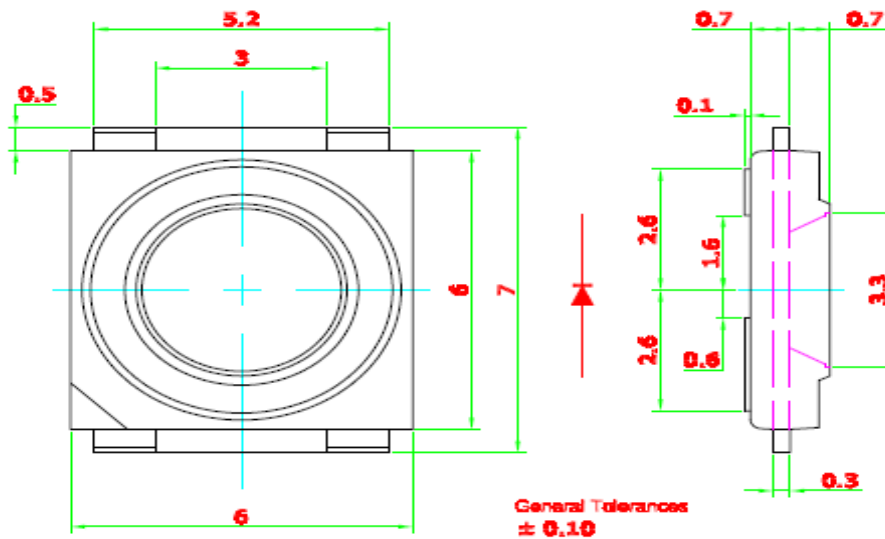




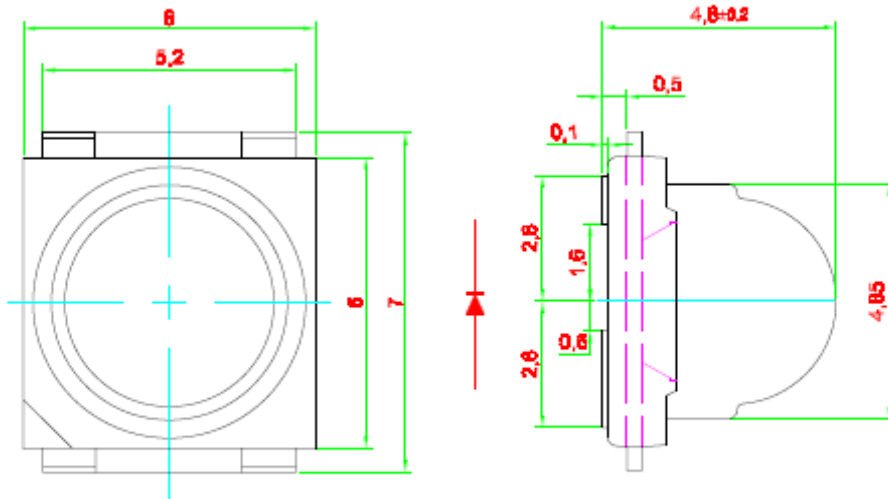
# SPNova-150 (NPF-MSD; NPW-MSD)



# SPNova-1Watt (400mA)

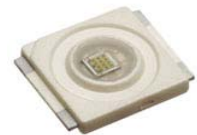
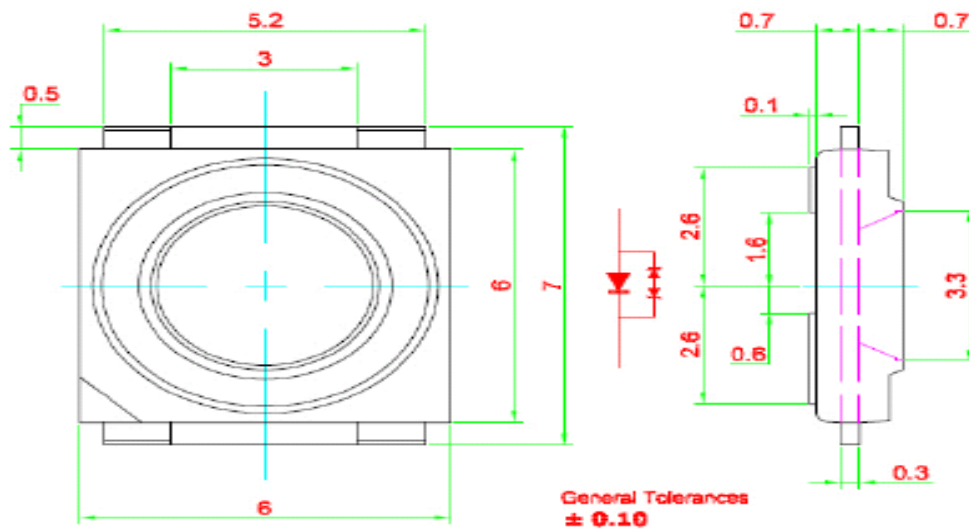


## SPNova-400 With lens



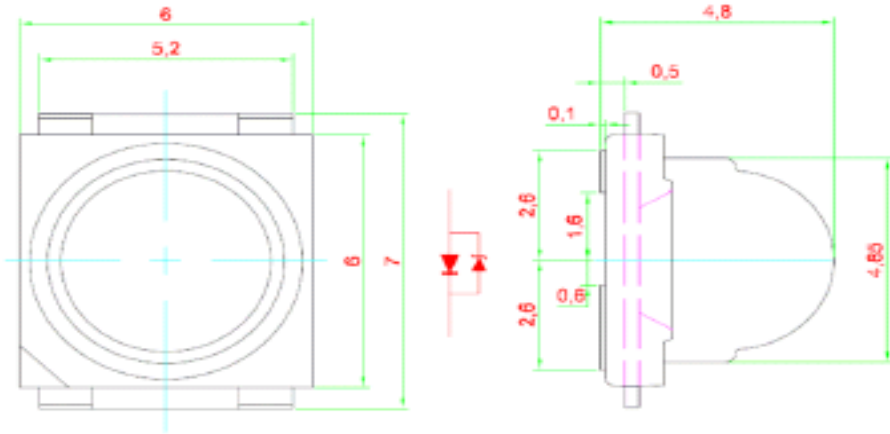
General Tolerances  
± 0.10

## SPNova-1 Watt (350mA)



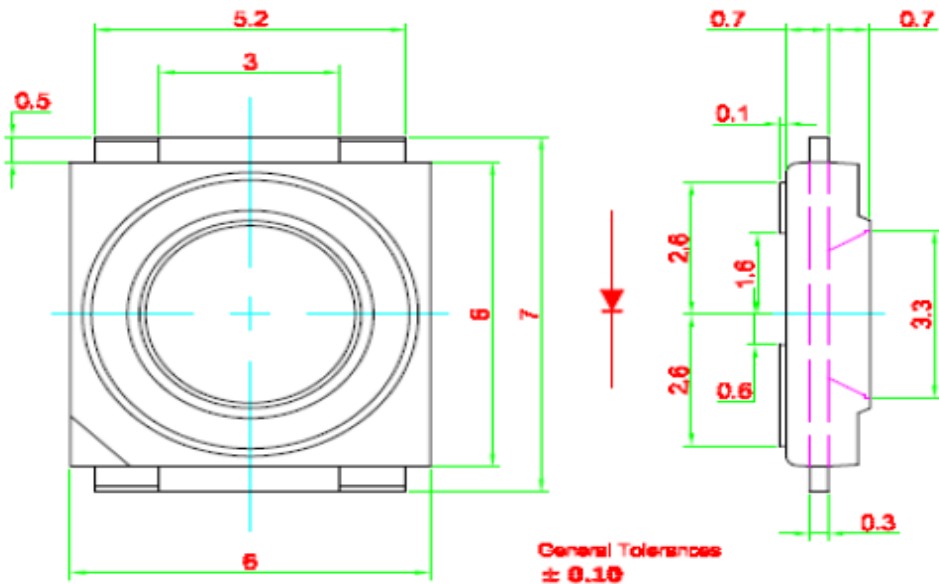
General Tolerances  
± 0.10

## SPNova-1 Watt With Lens (350mA)



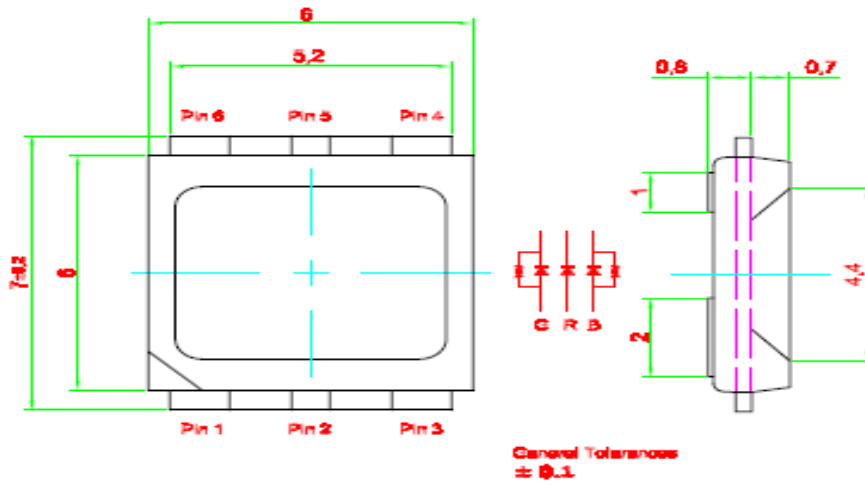
General Tolerances  
 $\pm 0.20$

## InfraRed SPNova

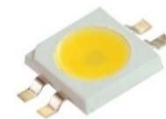
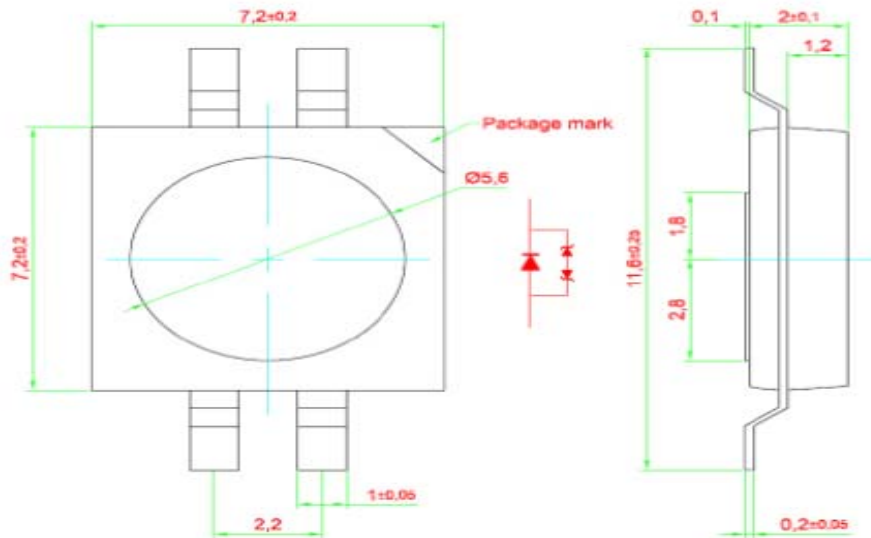


General Tolerances  
 $\pm 0.10$

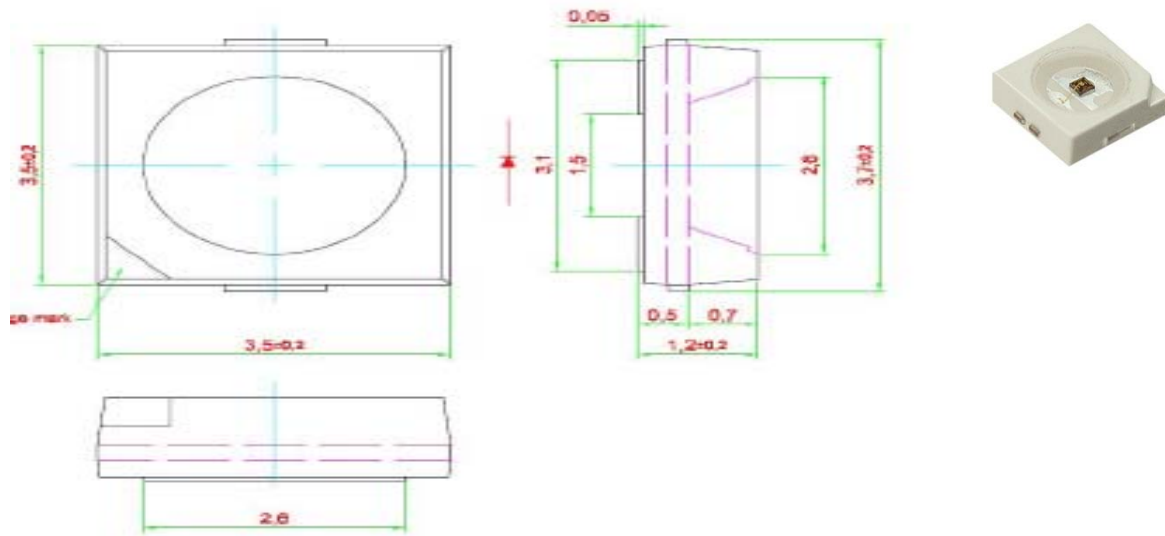
## RGB SPNova



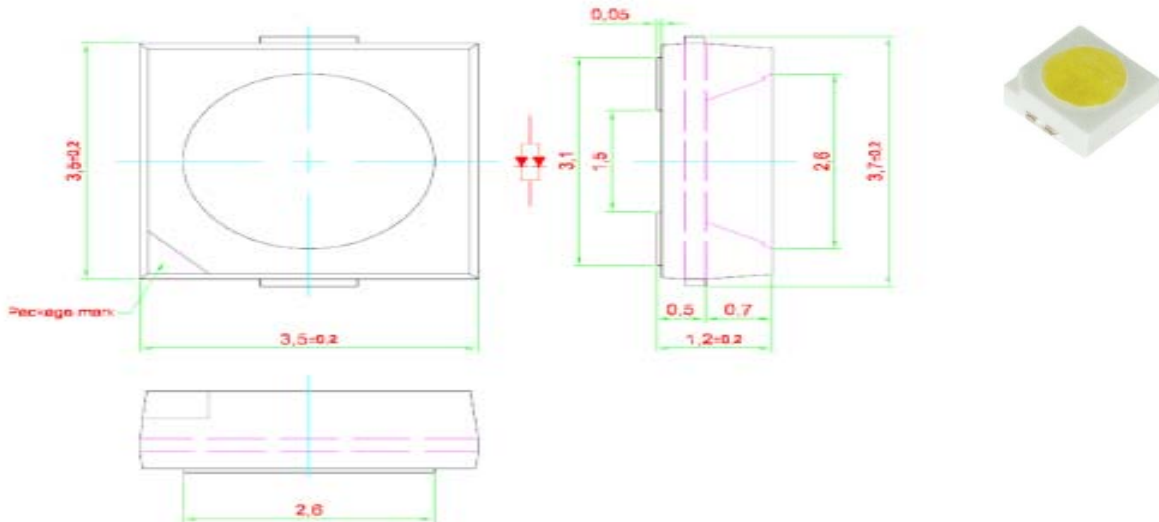
## KNova



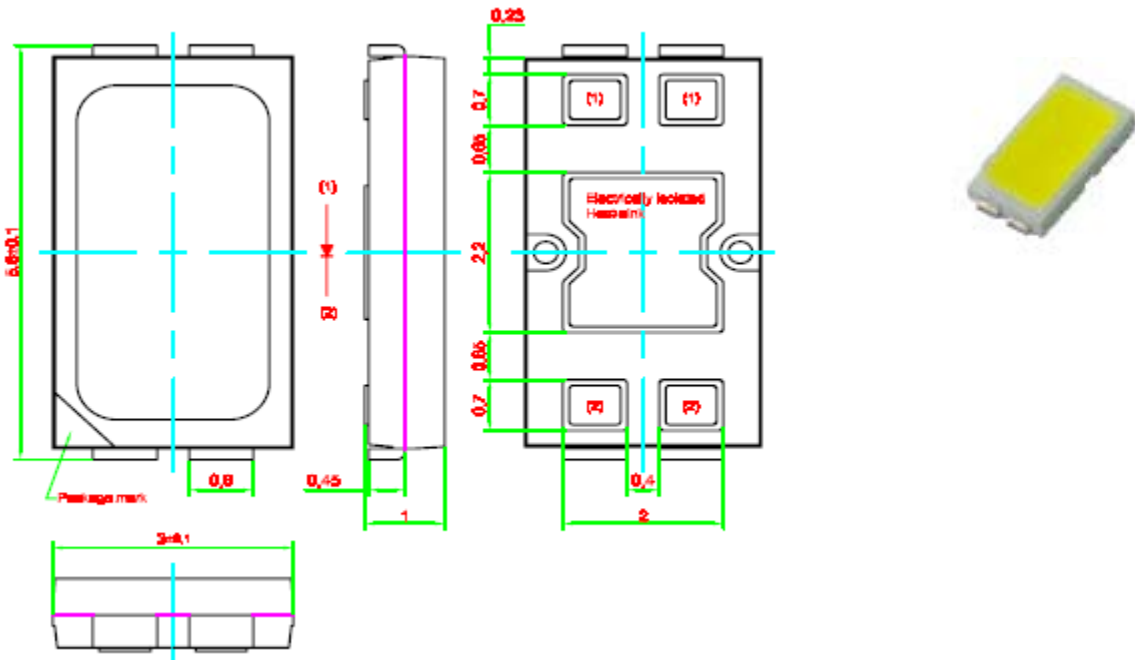
# Primax



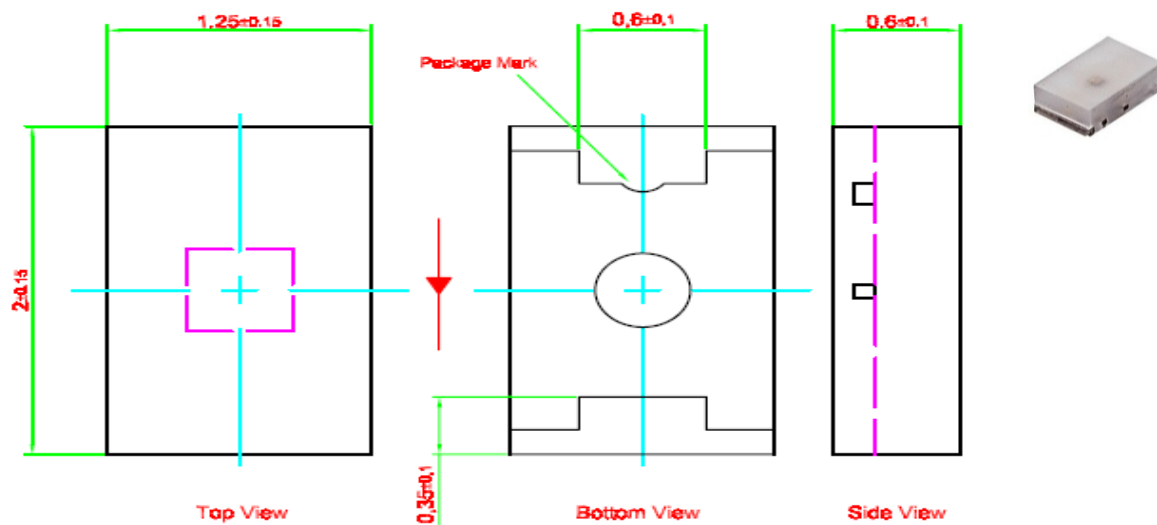
# Primax White



## Primax5

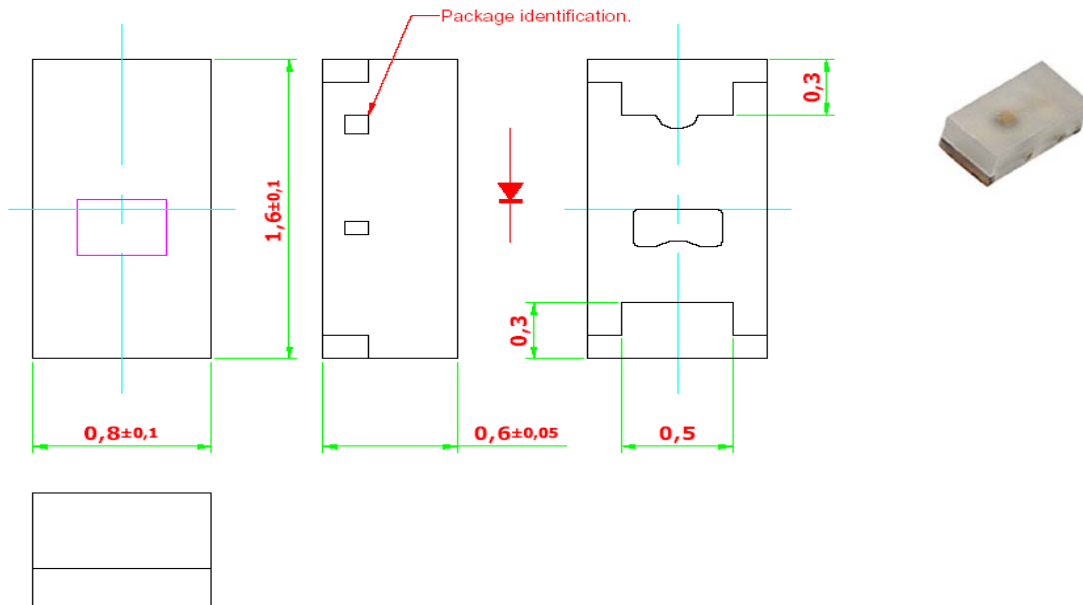


## M-Spice

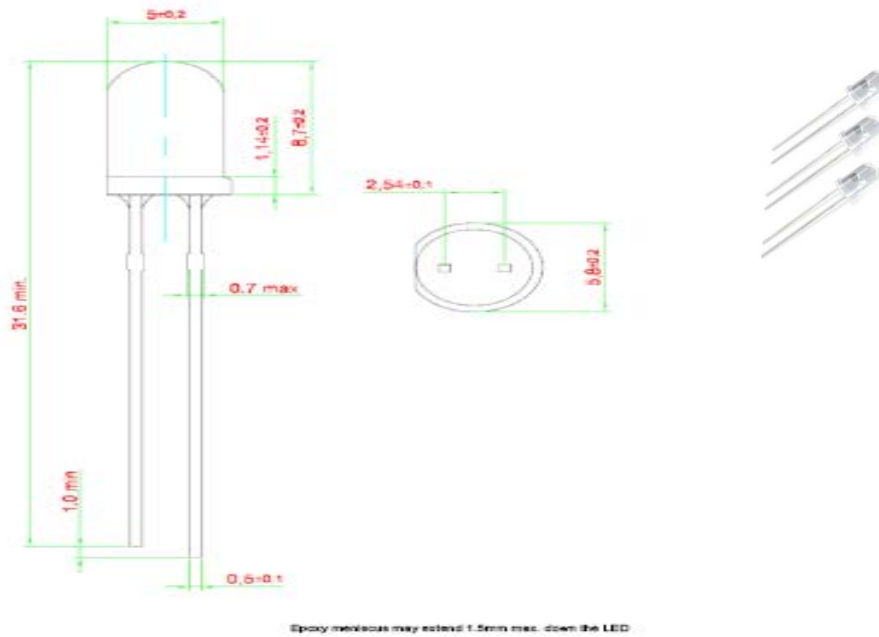


Note: The center pad is a common cathode. Please take care during soldering to avoid shorting.

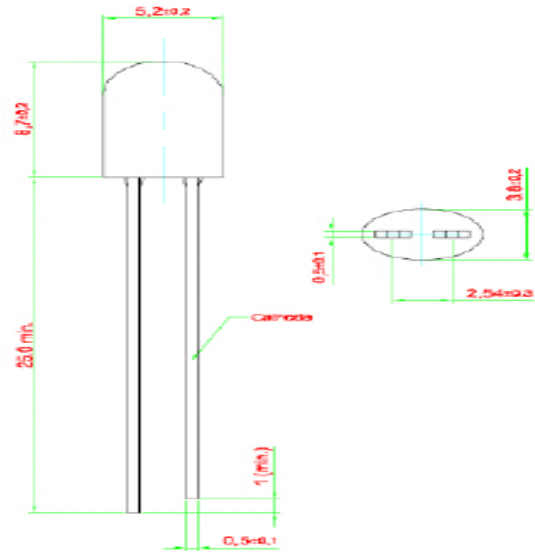
## S-Spice



## 5mm Round Through-hole LED



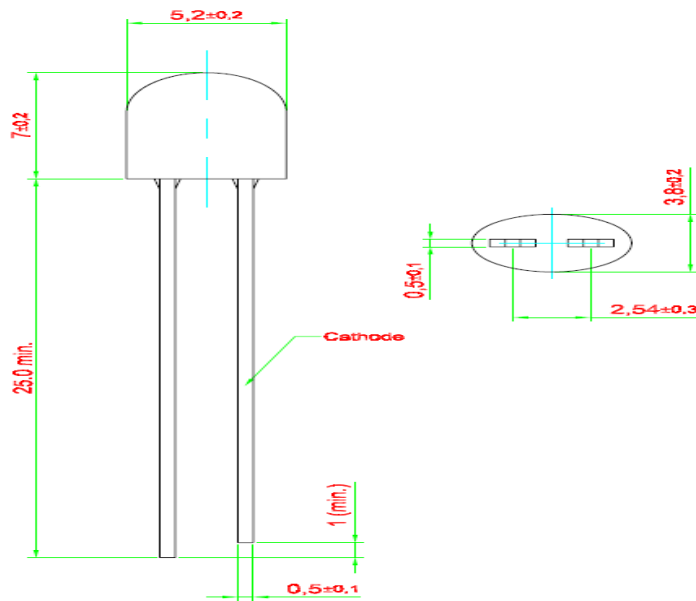
## 5mm Oval Through-hole LED



Epoxy resinous may extend 1.5mm max. down the led

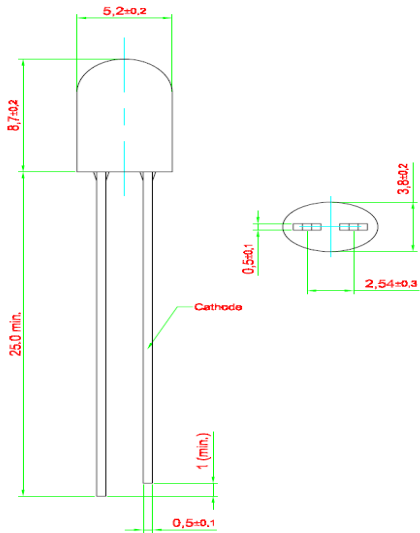


## 5mm Oval Through-hole LED (100/40)

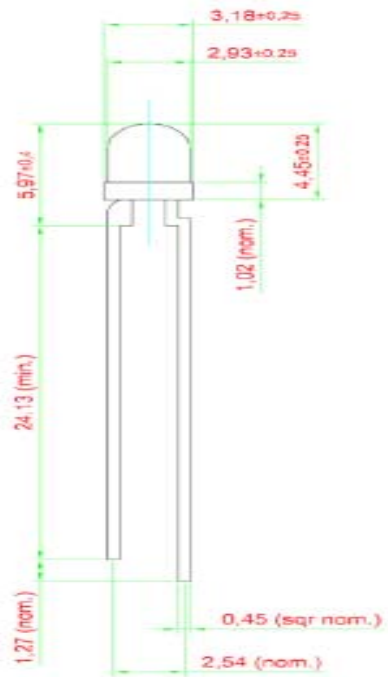




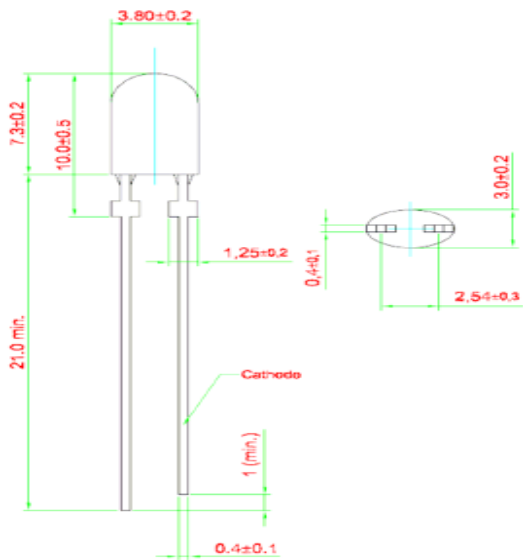
## 5mm Oval Through-hole LED (70/35)



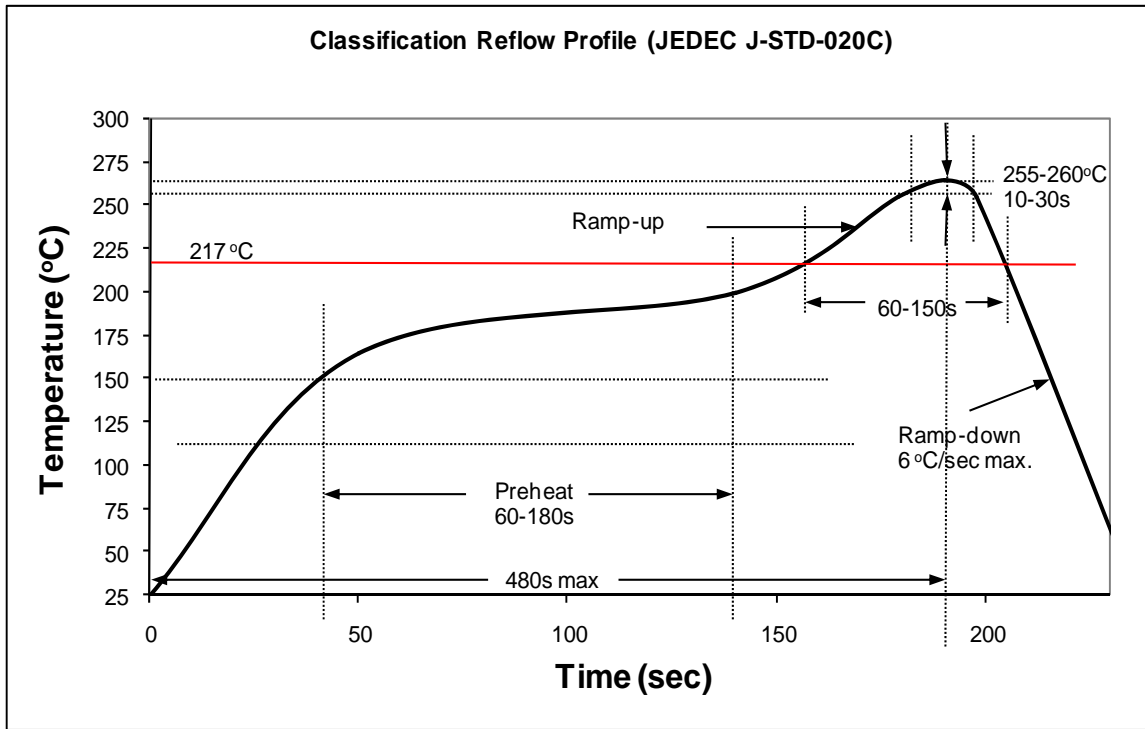
## 3mm Through-hole LED



# 4mm Through-hole LED



## Recommended Pb Free IR-Reflow Soldering Profile



## Application Area:

❖ Automotive



❖ Consumer Appliances



❖ Communication



❖ Display



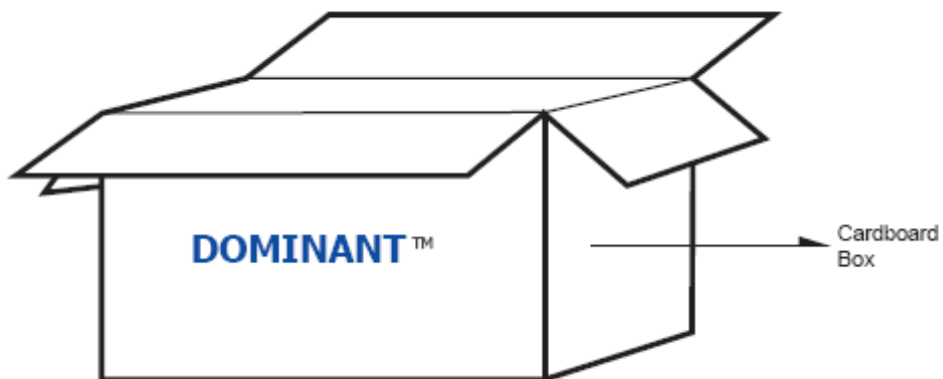
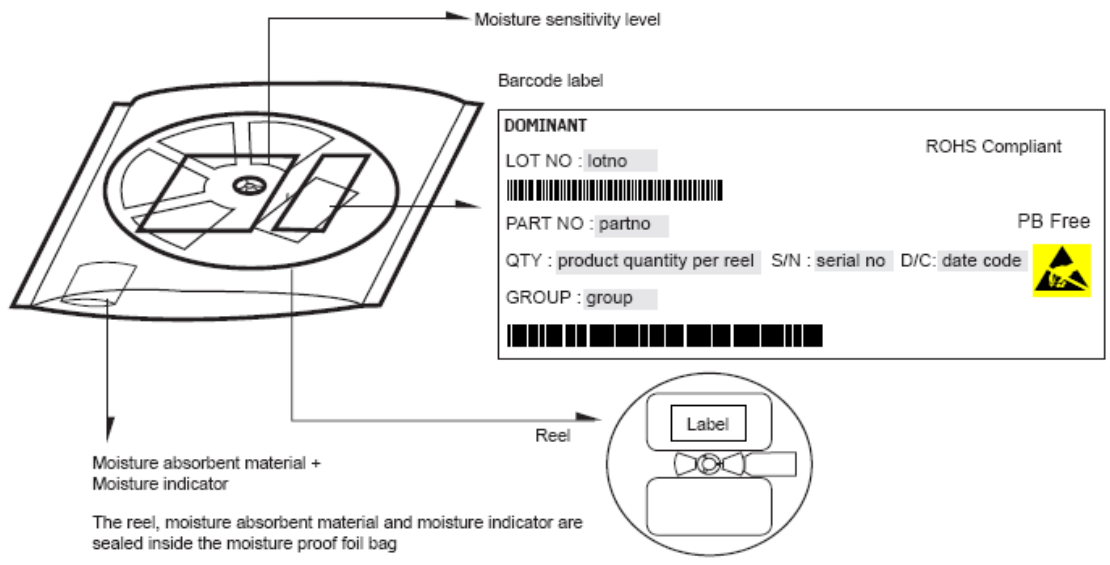
❖ Industry



❖ Lighting



## Packaging Specification – SMT LED:



**DomiLED / Multi DomiLED**

| Average 1pc = 0.034g |                 | 1 completed bag (2000pcs) = 190 10 (g) |              |                      |  |
|----------------------|-----------------|--|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                  | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                   | 15 reels MAX | 30,000 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                   | 96 reels MAX | 192,000 MAX          |  |

**Power DomiLED**

| Average 1pc = 0.034g |                 | 1 completed bag (2000pcs) = 190 10 (g) |              |                      |  |
|----------------------|-----------------|--|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                  | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                   | 15 reels MAX | 30,000 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                   | 96 reels MAX | 192,000 MAX          |  |

**Mini DomiLED**

| Average 1pc = 0.007g |                 | 1 completed bag (2000pcs) = 14 00 (g) |              |                      |  |
|----------------------|-----------------|---------------------------------------|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                 | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                  | 15 reels MAX | 45,000 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                  | 96 reels MAX | 188,000 MAX          |  |

**Right Angle DomiLED**

| Average 1pc = 0.034g |                 | 1 completed bag (2000pcs) = 190 10 (g) |              |                      |  |
|----------------------|-----------------|--|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                  | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                   | 15 reels MAX | 37,500 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                   | 96 reels MAX | 240,000 MAX          |  |

**DomiPlus**

| Average 1pc = 0.041g |                 | 1 completed bag (2000pcs) = 82 00 (g) |              |                      |  |
|----------------------|-----------------|---------------------------------------|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                 | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                  | 15 reels MAX | 15,000 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                  | 96 reels MAX | 96,000 MAX           |  |

**SPNova ( Without Lens )**

| Average 1pc = 0.188g |                 | 1 completed bag (2000pcs) = 800 10 (g) |              |                      |  |
|----------------------|-----------------|--|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                  | Reel/Box     | Quantity / Box (pcs) |  |
| Large                | 416 x 516 x 476 | 1.74                                   | 20 reels MAX | 40,000 MAX           |  |

**SPNova ( With Lens )**

| Average 1pc = 0.248g |                 | 1 completed bag (2000pcs) = 1040 00 (g) |              |                      |  |
|----------------------|-----------------|---|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                   | Reel/Box     | Quantity / Box (pcs) |  |
| Large                | 416 x 516 x 476 | 1.74                                    | 20 reels MAX | 20,000 MAX           |  |

**K Nova**

| Average 1pc = 0.301g |                 | 1 completed bag (2000pcs) = 1204 00 (g) |              |                      |  |
|----------------------|-----------------|---|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                   | Reel/Box     | Quantity / Box (pcs) |  |
| Large                | 416 x 516 x 476 | 1.74                                    | 20 reels MAX | 20,000 MAX           |  |

**S-spice**

| Average 1pc = 0.001g |                 | 1 completed bag (2000pcs) = 2 00 (g) |              |                      |  |
|----------------------|-----------------|--------------------------------------|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                 | 15 reels MAX | 45,000 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                 | 96 reels MAX | 288,000 MAX          |  |

**M-spice**

| Average 1pc = 0.001g |                 | 1 completed bag (2000pcs) = 2 00 (g) |              |                      |  |
|----------------------|-----------------|--------------------------------------|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                 | 15 reels MAX | 45,000 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                 | 96 reels MAX | 288,000 MAX          |  |

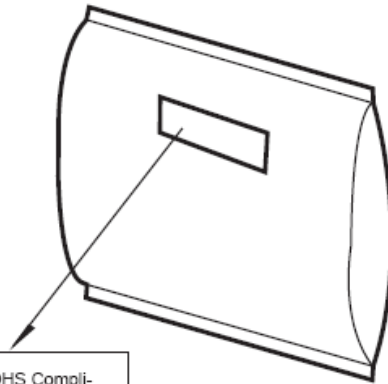
**Primax**

| Average 1pc = 0.041g |                 | 1 completed bag (1000pcs) = 160 10 (g) |              |                      |  |
|----------------------|-----------------|--|--------------|----------------------|--|
| Cardboard Box Size   | Dimension (mm)  | Empty Box (Weight kg)                  | Reel/Box     | Quantity / Box (pcs) |  |
| Small                | 300 x 250 x 250 | 0.58                                   | 15 reels MAX | 15,000 MAX           |  |
| Large                | 416 x 516 x 476 | 1.74                                   | 96 reels MAX | 96,000 MAX           |  |

## Packaging Specification - Through Hole LED (4mm/5mm Lamp)

### 1. Loose pack of 500pcs/pack

|               | Average 1pc 4mm / 5mmLamp | 1 completed pack (500pcs) |
|---------------|---------------------------|---------------------------|
| Weight (gram) | 0.29                      | 155 ± 10                  |

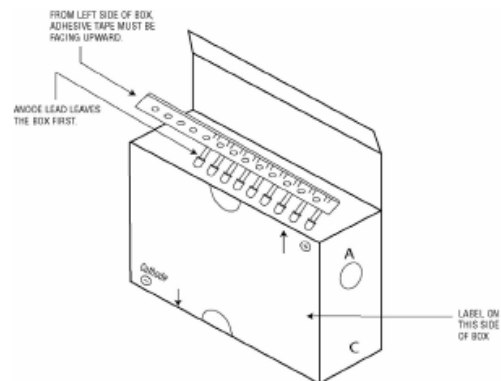
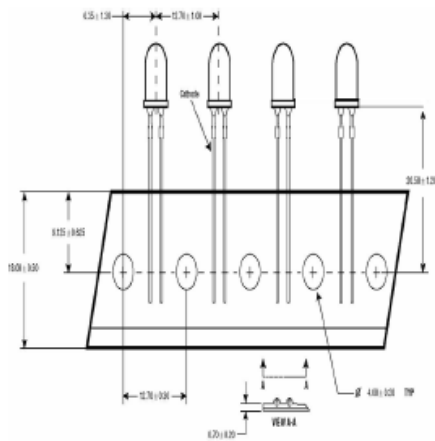


Barcode label

|  |              |
|--|--------------|
| LOT NO : lotno                                     | ROHS Compli- |
| PART NO : partno                                   | PB           |
| QTY : product quantity per S/N : serial nD/C: date |              |

### 2. Ammopack

| Average 1pc 4mm/5mm lamp (g) | Box Dimensions (mm) | Empty Box Weight (kg) | Quantity / Box (pcs) | 1 Completed Box With Units (kg) |
|------------------------------|---------------------|-----------------------|----------------------|---------------------------------|
| 0.29                         | 335 x 235 x 48      | 0.14                  | 2,000                | 0.95 ± 0.1                      |



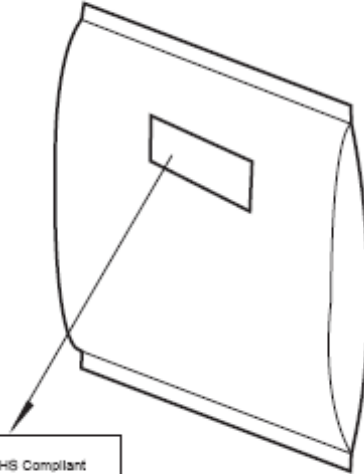







Packaging Specification - Through Hole LED

1. Loose pack of 500pcs/pack

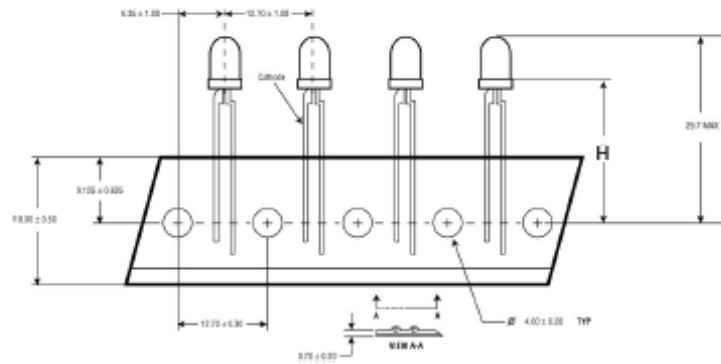
|               | Average 1pc 3mm Lamp | 1 completed pack (500pcs) |
|---------------|----------------------|---------------------------|
| Weight (gram) | 0.12                 | 70 ± 10                   |



Barcode label

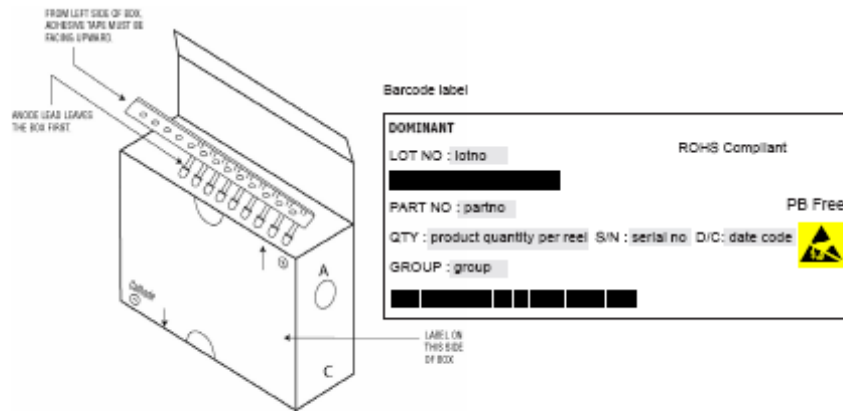
|   |   |                 |   |
|---|---|-----------------|---|
| DOMINANT  |   |                 |   |
| LOT NO : lotno  | ROHS Compliant  |                 |   |
|  |   |                 |   |
| PART NO : partno  | PB Free   |                 |   |
| QTY : product quantity per reel   | S/N : serial no   | D/C : date code |  |
| GROUP : group   |  |                 |   |

## 2. Ammopack

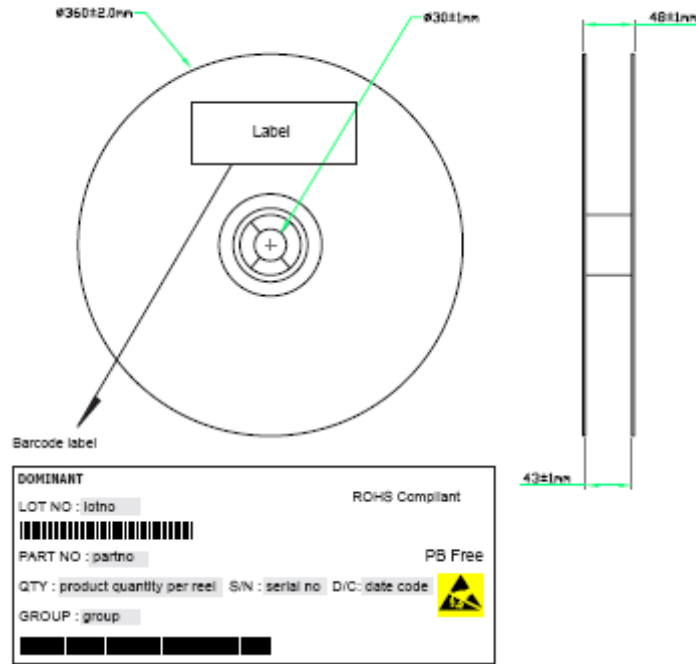


| Packing Variant | H          | Polarity of 1st Lead Leaves the Box |
|-----------------|------------|-------------------------------------|
| N 1 8           | 18.0 ± 0.5 |                                     |
| N 2 3           | 22.5 ± 0.5 |                                     |
| N 2 7           | 27.0 ± 0.5 |                                     |

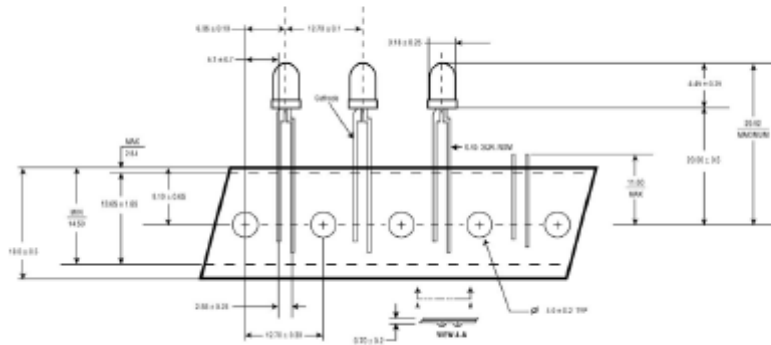
| Average 1pc 3mm Lamp (g) | Box Dimensions (mm) | Empty Box Weight (kg) | Quantity / Box (pcs) | 1 Completed Box With Units (kg) |
|--------------------------|---------------------|-----------------------|----------------------|---------------------------------|
| 0.12                     | 345 x 275 x 48      | 0.16                  | 5,000                | 0.85 ± 0.1                      |



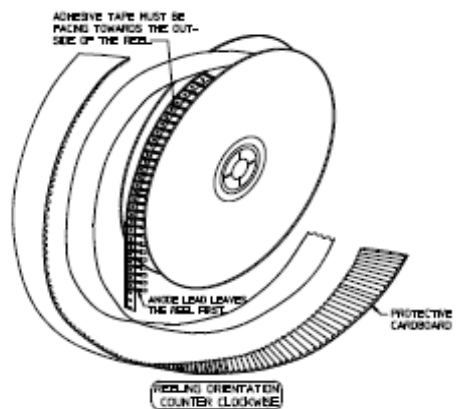
3. Reel



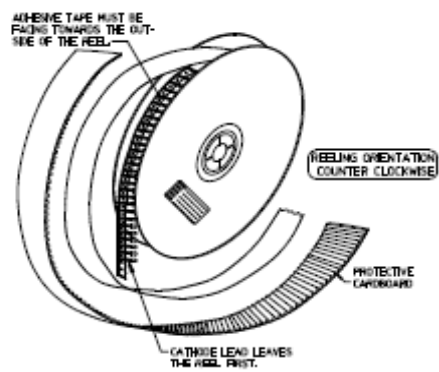
| Average 1pc 3mm Lamp (g) | Empty Reel Weight (kg) | Quantity / Reel (pcs) | 1 Completed Reel (kg) |
|--------------------------|------------------------|-----------------------|-----------------------|
| 0.12                     | 0.39                   | 1,800                 | 0.75 ± 0.1            |



1. Anode option:



2. Cathode option:



**DOMINANT™**  
**Opto Technologies**  
*Innovating Illumination*



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