

**OPTO Semiconductor Devices**

LED Lamp

F3

|                      |        | Lens dia. (mm) |          | ø3.1            |                   | ø5      |          |
|----------------------|--------|----------------|----------|-----------------|-------------------|---------|----------|
| Light-emitting color |        | Lens           |          |                 |                   |         |          |
| Standard bright      | Red    | Red            | Clear    | TLR123          |                   | TLR113A | TLR113AP |
|                      |        |                | Diffused | TLR124          |                   | TLR114A | TLR114AP |
|                      |        | Colorless      | Clear    |                 | TLR262            | TLR120A |          |
|                      |        |                | Diffused |                 |                   | TLR116A |          |
|                      | Green  | Green          | Clear    | TLG123A         |                   | TLG113A | TLG113AP |
|                      |        |                | Diffused | TLG124A         |                   | TLG114A | TLG114AP |
|                      |        | Light green    | Clear    |                 | TLG262            |         |          |
|                      | Yellow | Yellow         | Clear    | TLY123          |                   | TLY113A | TLY113AP |
|                      |        |                | Diffused | TLY124          |                   | TLY114A | TLY114AP |
|                      |        | Light yellow   | Clear    |                 | TLY262            |         |          |
|                      | Orange | Orange         | Clear    | TLO123          |                   | TLO113A | TLO113AP |
|                      |        |                | Diffused | TLO124          |                   | TLO114A | TLO114AP |
| Light orange         |        | Clear          |          | TLO262          |                   |         |          |
| Super bright         | Red    | Red            | Clear    | TLS123          |                   | TLS113  | TLS113P  |
|                      |        |                | Diffused | TLS124          |                   | TLS114  | TLS114P  |
|                      |        | Light red      | Clear    |                 | TLS163            | TLS262  |          |
|                      |        |                | Diffused |                 | TLS164            |         |          |
|                      | Green  | Green          | Clear    |                 |                   |         |          |
|                      |        |                | Diffused |                 |                   |         |          |
|                      |        | Light green    | Clear    |                 | TLG163            |         |          |
|                      |        |                | Diffused |                 | TLG164            |         |          |
|                      | Yellow | Light yellow   | Clear    |                 | TLY163            |         |          |
|                      |        |                | Diffused |                 | TLY164            |         |          |
|                      | Orange | Light orange   | Clear    |                 | TLO163            |         |          |
|                      |        |                | Diffused |                 | TLO164            |         |          |
| Feature              |        |                |          | High Luminosity | For Back lighting |         |          |

F3

|                      |              | Lens dia. (mm) |          | ø5                |                   | ø3.5      |        |
|----------------------|--------------|----------------|----------|-------------------|-------------------|-----------|--------|
| Light-emitting color |              | Lens           |          |                   |                   |           |        |
| Standard bright      | Red          | Red            | Clear    |                   |                   | TLR223    |        |
|                      |              |                | Diffused |                   |                   | TLR224    |        |
|                      |              | Colorless      | Clear    |                   | TLR263P           |           |        |
|                      |              |                | Diffused |                   |                   | TLG223    | TLG224 |
|                      | Green        | Green          | Clear    |                   |                   |           |        |
|                      |              |                | Diffused |                   |                   |           |        |
|                      |              | Light green    | Clear    |                   | TLG263P           |           |        |
|                      | Yellow       | Yellow         | Clear    |                   |                   | TLY223    |        |
|                      |              |                | Diffused |                   |                   | TLY224    |        |
|                      |              | Light yellow   | Clear    |                   | TLY263P           |           |        |
|                      | Orange       | Orange         | Clear    |                   |                   | TLO223    |        |
|                      |              |                | Diffused |                   |                   | TLO224    |        |
| Light orange         |              | Clear          |          | TLO263P           |                   |           |        |
| Super bright         | Red          | Red            | Clear    |                   |                   |           |        |
|                      |              |                | Diffused |                   |                   |           |        |
|                      |              | Light red      | Clear    | TLS241P           | TLS255A           | TLS263P   |        |
|                      |              |                | Diffused |                   |                   |           |        |
|                      | Green        | Light green    | Clear    | TLG241P           | TLG255A           |           |        |
|                      |              |                | Diffused |                   |                   |           |        |
|                      | Yellow       | Light yellow   | Clear    | TLY241P           | TLY255A           |           |        |
|                      |              |                | Diffused |                   |                   |           |        |
| Orange               | Light orange | Clear          |          | TLO255A           |                   |           |        |
|                      |              | Diffused       |          |                   |                   |           |        |
| Feature              |              | Flangeless     |          | For Back lighting | For Back lighting | Side View |        |