



# SINGLE COLOR LED

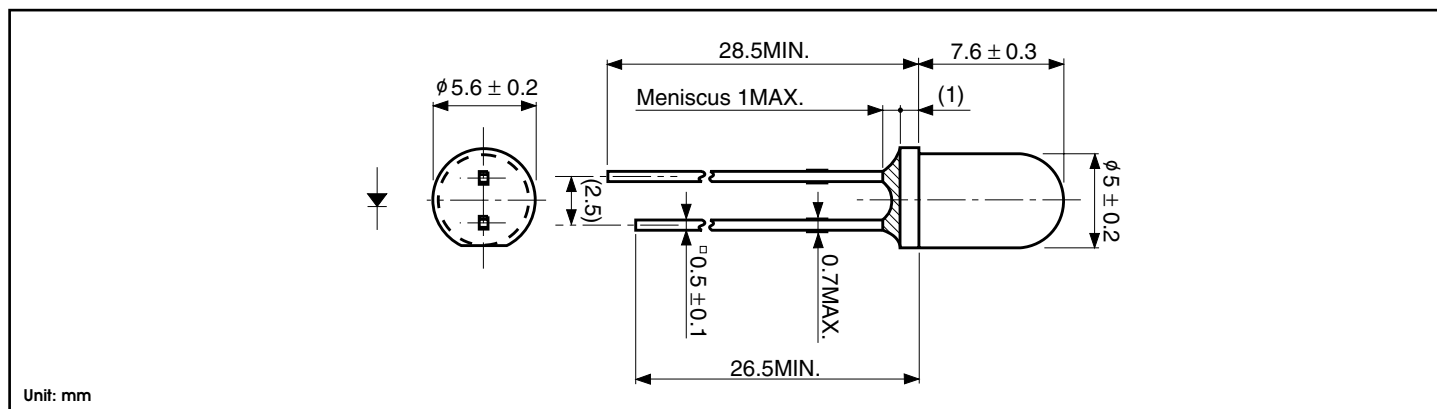
5mm Round Shape



## 5364X / 5374X Series

STANDARD COLOR

### Outline Dimensions



### Absolute Maximum Ratings

(Ta=25°C)

| Item                  | Symbol          | Red         |      |     | Orange | Yellow | Yellow Green | Green | Pure Green | Units |
|-----------------------|-----------------|-------------|------|-----|--------|--------|--------------|-------|------------|-------|
|                       |                 | BR          | MPR  | MVR | MAA    | MAY    | MPY          | MPG   | MBG        |       |
| Power Dissipation     | Pd              | 100         | 75   | 75  | 70     | 85     | 85           | 70    | 70         | mW    |
| Forward Current       | I <sub>F</sub>  | 50          | 30   | 30  | 25     | 30     | 30           | 25    | 25         | mA    |
| Peak Forward Current  | I <sub>FM</sub> | 300         | 75   | 75  | 60     | 75     | 75           | 60    | 60         | mA    |
| Reverse Voltage       | V <sub>R</sub>  | 4           | 4    | 4   | 4      | 4      | 4            | 4     | 4          | V     |
| Operating Temperature | Topr            | -30 to +85  |      |     |        |        |              |       |            | °C    |
| Storage Temperature   | Tstg            | -30 to +100 |      |     |        |        |              |       |            | °C    |
| Derating (DC)*        | I <sub>F</sub>  | 0.67        | 0.40 |     | 0.33   | 0.40   |              | 0.33  |            | mA/°C |

\* Ta=25°C, I<sub>FM</sub> applies for the pulse width 1msec. and duty cycle 1/20  
The current derating for operation applies when the temperature is above 25°C

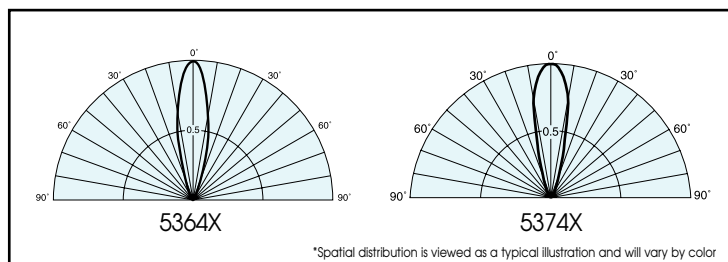
### Electro-Optical Characteristics

\*5364X lens is clear and 5374X lens is diffused

\*\*The viewing angle is an average and will vary by color (Ta=25°C)

| Part No.       | Material | Emitted Color | Lens Color*   | Luminous Intensity I <sub>V</sub> |        |    | Wavelength     |                       |                                     |    | Forward Voltage V <sub>F</sub> |      |    | Reverse Current I <sub>R</sub> |                | Viewing Angle**<br>(2 1/2) |      |
|----------------|----------|---------------|---------------|-----------------------------------|--------|----|----------------|-----------------------|-------------------------------------|----|--------------------------------|------|----|--------------------------------|----------------|----------------------------|------|
|                |          |               |               | MIN.                              | TYP.   | If | Peak P<br>TYP. | Dominant<br>d<br>TYP. | Spectral Line<br>Half Width<br>TYP. | If | TYP.                           | MAX. | If | MAX.                           | V <sub>R</sub> |                            |      |
|                |          |               |               |                                   |        |    |                |                       |                                     |    |                                |      |    |                                |                |                            |      |
| BR5364X/5374X  | GaAlAs   | Red           | Pastel Red    | 60/30                             | 120/60 | 20 | 660            | 647                   | 30                                  | 20 | 1.7                            | 2.0  | 20 | 100                            | 4              | 25/30°                     |      |
| MPR5364X/5374X | GaP      |               |               | 5/3                               | 10/6   | 10 | 700            | 635                   | 100                                 | 10 | 2.1                            | 2.8  | 10 | 20                             | 4              |                            |      |
| MVR5364X/5374X | GaAsP    |               |               | 50/30                             | 100/60 | 20 | 630            | 624                   | 30                                  | 20 | 2.0                            | 2.8  | 20 | 20                             | 4              |                            |      |
| MAA5364X/5374X | GaAsP    | Orange        | Pastel Orange | 50/25                             | 100/50 | 20 | 605            | 606                   | 30                                  | 20 | 2.2                            | 2.8  | 20 | 20                             | 4              |                            |      |
| MAY5364X/5374X | GaAsP    | Yellow        | Pastel Yellow | 40/20                             | 80/40  | 20 | 580            | 590                   | 30                                  | 20 | 2.2                            | 2.8  | 20 | 20                             | 4              |                            |      |
| MPY5364X/5374X | GaP      | Yellow Green  |               | 60/30                             | 120/60 | 20 | 570            | 572                   | 30                                  | 20 | 2.1                            | 2.8  | 20 | 20                             | 4              |                            |      |
| MPG5364X/5374X | GaP      | Green         | Pastel Green  | 50/20                             | 100/40 | 20 | 560            | 567                   | 30                                  | 20 | 2.1                            | 2.8  | 20 | 20                             | 4              |                            |      |
| MBG5364X/5374X | GaP      | Pure Green    |               | 20/8                              | 40/16  | 20 | 555            | 558                   | 30                                  | 20 | 2.1                            | 2.8  | 20 | 20                             | 4              |                            |      |
| Units          |          |               |               | mcd                               |        | mA | nm             |                       |                                     | mA | V                              |      |    | mA                             | μA             | V                          | Deg. |

### Spatial Distribution (x)



### Operation Current Derating Chart

