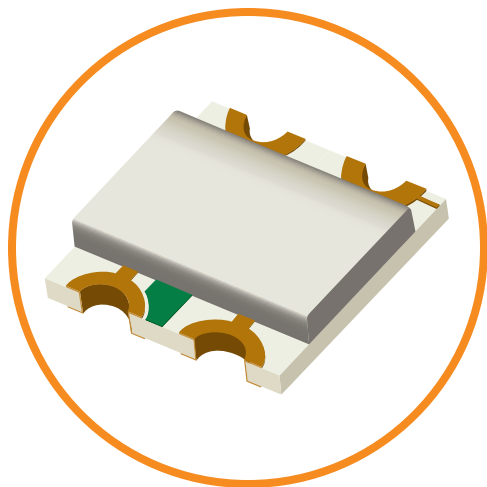
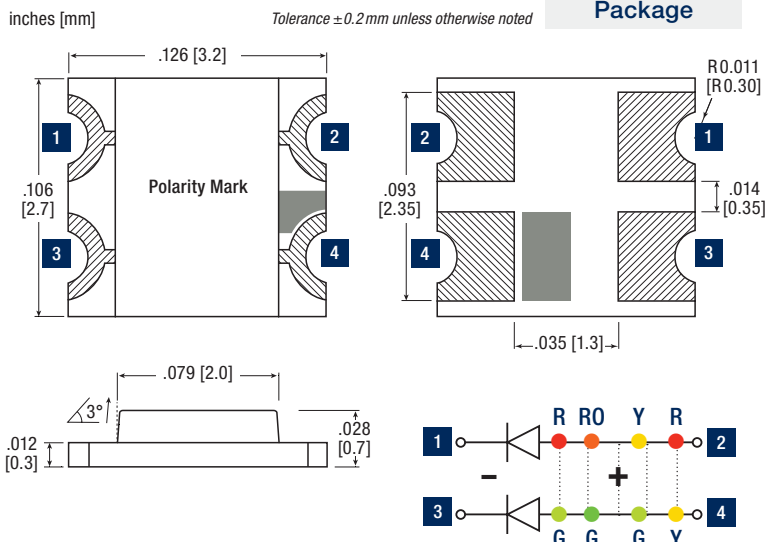


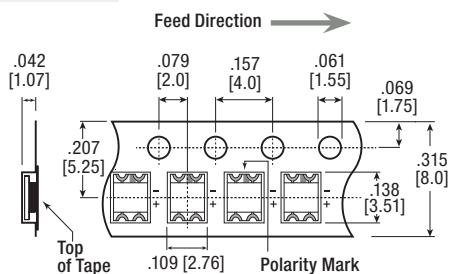


### Dimensions



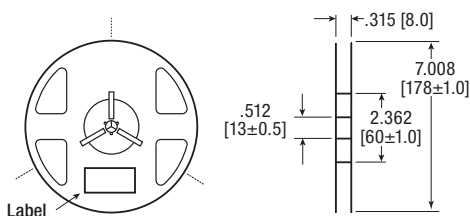
### Tape

Tolerance  $\pm 0.1$  mm unless otherwise noted



### Reel

Tolerance  $\pm 0.1$  mm unless otherwise noted



### Certifications & Ratings

- RoHS compliant

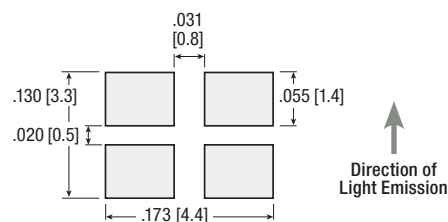
### Features & Benefits

- Compatible with automatic placement equipment
- Packaged in 8 mm tape, 7" reel (3000 pcs/reel) and 20 per strip
- Meets EIA-481-1 pkg. std.

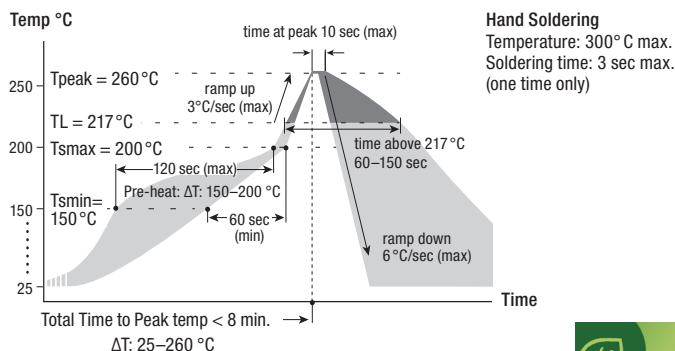
### Part Number Guide

| RoHS Compliant |   |   |   |   |   |   |   |                  |                       |
|----------------|---|---|---|---|---|---|---|------------------|-----------------------|
| 5              | 9 | 8 | - | 8 | 6 | X | X | -                | 2 0 X F               |
| Color          |   |   |   |   |   |   |   | Packaging Option |                       |
| Red            |   |   |   |   |   |   |   | 2                | 20 pieces on tape     |
| Green          |   |   |   |   |   |   |   | 7                | 7" reel 3000 pcs/reel |
| Red-Orange     |   |   |   |   |   |   |   |                  |                       |
| Green          |   |   |   |   |   |   |   |                  |                       |
| Yellow         |   |   |   |   |   |   |   |                  |                       |
| Green          |   |   |   |   |   |   |   |                  |                       |
| Yellow         |   |   |   |   |   |   |   |                  |                       |
| Red            |   |   |   |   |   |   |   |                  |                       |

### Soldering



### Reflow Profile



## Electrical/Optical Characteristics

| Electrical/Optical Characteristics |                   |               |          |              | Luminous Intensity |     |     | Dominant Wavelength |     |     | Forward Voltage |     |     | Viewing Angle (°deg.) | Thermal Resistance (°C/W) | Reverse Current Intensity (µA) |                      |            |     |
|------------------------------------|-------------------|---------------|----------|--------------|--------------------|-----|-----|---------------------|-----|-----|-----------------|-----|-----|-----------------------|---------------------------|--------------------------------|----------------------|------------|-----|
| Dialight P/N                       |                   | Emitted Color | Material | Lens Color   | If = 20 ma         |     |     |                     |     |     |                 |     |     |                       |                           |                                | Rth(j-s)<br>If=20 ma | (Ir) VR=5V |     |
| 20-Piece Tape                      | 7" Reel, 4000 pcs |               |          |              | Min                | Typ | Max | Min                 | Typ | Max | Min             | Typ | Max |                       | Min                       | Typ                            |                      |            | Max |
| 598-8610-202F                      | 598-8610-207F     | ● Red         | AlInGaP  | Non-Diffused | 40                 | 65  | 90  | 630                 | 635 | 640 | 1.8             | 2.1 | 2.4 | 140                   | 450                       | 10                             |                      |            |     |
|                                    |                   | ● Green       |          |              | 30                 | 40  | 50  | 565                 | 570 | 575 | 1.8             | 2.1 | 2.4 |                       |                           |                                |                      |            |     |
| 598-8620-202F                      | 598-8620-207F     | ● Red-Orange  | InGaN    |              | 90                 | 120 | 150 | 600                 | 605 | 610 | 1.8             | 2.1 | 2.4 |                       |                           |                                |                      |            |     |
|                                    |                   | ● Green       |          |              | 260                | 580 | 900 | 520                 | 525 | 530 | 3.0             | 3.2 | 3.4 |                       |                           |                                |                      |            |     |
| 598-8640-202F                      | 598-8640-207F     | ● Yellow      | AlInGaP  |              | 80                 | 155 | 230 | 585                 | 590 | 595 | 1.8             | 2.1 | 2.4 |                       |                           |                                |                      |            |     |
|                                    |                   | ● Green       |          |              | 30                 | 40  | 50  | 565                 | 570 | 575 | 1.8             | 2.1 | 2.4 |                       |                           |                                |                      |            |     |
| 598-8660-202F                      | 598-8660-207F     | ● Yellow      |          |              | 90                 | 145 | 200 | 585                 | 590 | 595 | 1.8             | 2.1 | 2.4 |                       |                           |                                |                      |            |     |
|                                    |                   | ● Red         |          |              | 40                 | 65  | 90  | 625                 | 633 | 640 | 1.8             | 2.1 | 2.4 |                       |                           |                                |                      |            |     |

## Absolute Maximum Ratings @ Ts=25 °C

|                                   |                                                                                                                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Dissipation (mW)            | <div> <div>Red</div> <div>Yellow</div> <div>Green</div> </div> <div> <div>72</div> <div>72</div> <div>102</div> </div> <div> <div>RO</div> <div>Y</div> <div>G</div> </div> <div> <div>72</div> <div>48</div> <div>48</div> </div> |
| Forward Current (mA)              | <div> <div>Yellow</div> <div>Green</div> </div> <div> <div>20</div> <div>all others 30</div> </div>                                                                                                                                |
| Reverse Voltage (V)               | 5                                                                                                                                                                                                                                  |
| Operating Temp (°C)               | -40 to +100                                                                                                                                                                                                                        |
| Storage Temp (°C)                 | -40 to +100                                                                                                                                                                                                                        |
| Peak Pulse Fw Current (mA)        | 60                                                                                                                                                                                                                                 |
| Electrostatic Discharge (HBM) (V) | 2000                                                                                                                                                                                                                               |
| Junction Temp (°C)                | 105                                                                                                                                                                                                                                |

