

Certifications & Ratings

- RoHS compliant

Features & Benefits

- Compatible with automatic placement equipment
- Packaged in 8 mm tape, 7" reel (4000 pcs/reel) and 20 per strip
- Meets EIA-481-1 pkg. std.

Dimensions



Part Number Guide

| Part Number | | | | | | | RoHS Compliant | | | | | |
|----------------|---|---|---|---|---|---|------------------|---|---|---|---|---|
| 5 | 9 | 8 | - | 8 | 2 | X | X | - | 1 | 0 | X | F |
| Color | | | | | | | Packaging Option | | | | | |
| ● Red | 1 | 0 | | | | | | | | | | |
| ● Red-Orange | 2 | 0 | | | | | | | | | | |
| ● Orange | 3 | 0 | | | | | | | | | | |
| ● Yellow | 4 | 0 | | | | | | | | | | |
| ● Yellow | 5 | 0 | | | | | | | | | | |
| ● Yellow-Green | 6 | 0 | | | | | | | | | | |
| ● Green | 7 | 0 | | | | | | | | | | |
| ● Green | 8 | 1 | | | | | | | | | | |
| ● Blue | 9 | 1 | | | | | | | | | | |

Color Legend:

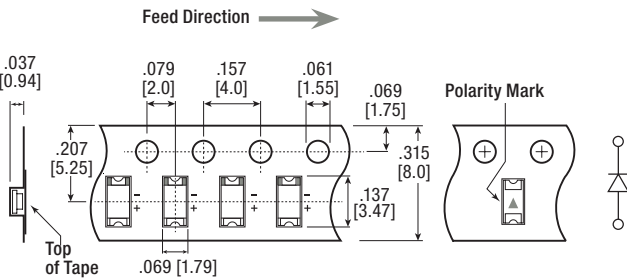
- Red
- Red-Orange
- Orange
- Yellow
- Yellow
- Yellow-Green
- Green
- Green
- Blue

Packaging Option Legend:

- 2: 20 pieces on tape
- 7: 7" reel
- 4000 pcs/reel

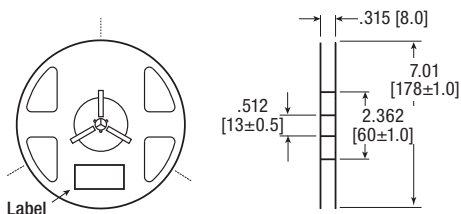
Tape

Tolerance ± 0.1 mm unless otherwise noted

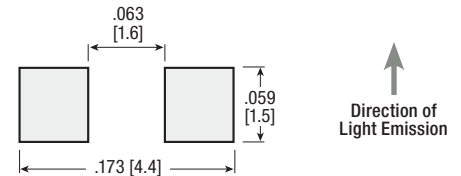


Reel

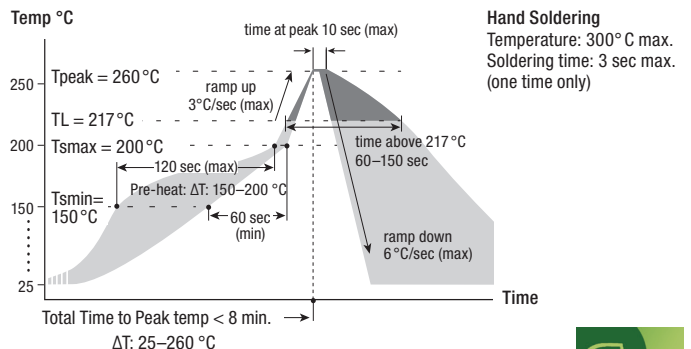
Tolerance ± 0.1 mm unless otherwise noted



Soldering



Reflow Profile



Electrical/Optical Characteristics

| Dialight P/N | | Emitted Color | Material | Lens Color | Luminous Intensity | | | Dominant Wavelength | | | Forward Voltage | | | Viewing Angle (°deg.) | Thermal Resistance (°C/W) Rth(j-s) If=20ma | Reverse Current Intensity (µA) (Ir) VR=5V |
|---------------|-------------------|---------------|----------|--------------|--------------------|-----|-----|---------------------|-----|-----|-----------------|-----|-----|-----------------------|--|--|
| 20-Piece Tape | 7" Reel, 4000 pcs | | | | If = 20 ma | | | | | | | | | | | |
| | | | | | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max | | | |
| 598-8210-102F | 598-8210-107F | Red | AllInGaP | Non-Diffused | 20 | 55 | 90 | 625 | 633 | 640 | 1.8 | 2.1 | 2.4 | 140 | 450 | 10 |
| 598-8220-102F | 598-8220-107F | Red-Orange | | | 70 | 120 | 200 | 620 | 625 | 630 | 1.8 | 2.1 | 2.4 | | | |
| 598-8230-102F | 598-8230-107F | Orange | | | 90 | 175 | 260 | 600 | 605 | 610 | 1.8 | 2.1 | 2.4 | | | |
| 598-8240-102F | 598-8240-107F | Yellow | | | 150 | 205 | 260 | 590 | 592 | 595 | 1.8 | 2.1 | 2.4 | | | |
| 598-8250-102F | 598-8250-107F | Yellow | | | 90 | 120 | 150 | 585 | 587 | 590 | 1.8 | 2.1 | 2.4 | | | |
| 598-8260-102F | 598-8260-107F | Yellow-Green | | | 43 | 70 | 100 | 570 | 572 | 575 | 1.8 | 2.1 | 2.4 | | | |
| 598-8270-102F | 598-8270-107F | Green | | | 18 | 30 | 43 | 562 | 566 | 570 | 1.8 | 2.1 | 2.4 | | | |
| 598-8281-102F | 598-8281-107F | Green | InGaN | | 260 | 580 | 900 | 517 | 525 | 530 | 2.8 | 3.2 | 3.5 | | | |
| 598-8291-102F | 598-8291-107F | Blue | | | 90 | 175 | 260 | 465 | 470 | 475 | 2.8 | 3.2 | 3.5 | | | |

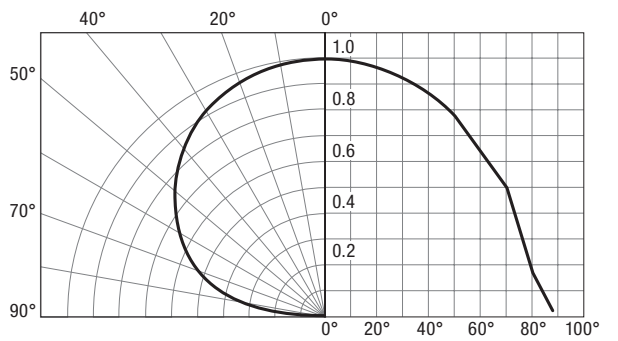


Absolute Maximum Ratings @ Ts=25°C

| | | | |
|-----------------------------------|-------------|------|--------------------|
| Power Dissipation (mW) | 72 | 105 | ● G - InGaN ● B |
| Forward Current (mA) | 30 | | |
| 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 | 1000 | ● G - InGaN ● B |
| Junction Temp (°C) | 105 | | |



Diagram Characteristics of Radiation



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