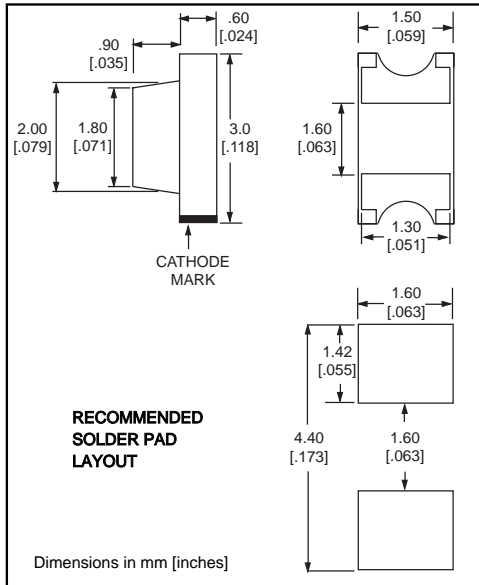




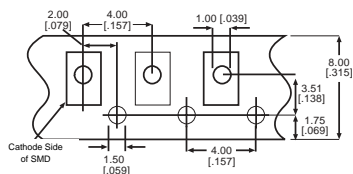
# Surface Mount LED 1206 Type Package



## 597-3xx1-4xx



### TAPING SPECIFICATIONS (rear side of tape)



### Features

- Compatible with automatic placement equipment
- Compatible with infrared reflow processes
- Packaged on 8mm tape, 7" reels (meets EIA-481-1 standard)
- Helps to eliminate mixed technology PC board processing
- Compatible with Dialight's Optopipe™ Series light pipes

### PART NO.\*

### COLOR

|              |            |
|--------------|------------|
| 597-3111-4xx | AlGaAs Red |
| 597-3201-4xx | Orange     |
| 597-3311-4xx | Green      |
| 597-3401-4xx | Yellow     |

### \*ORDERING INFORMATION

**597-3xx1-4xx**

packaging option →

|    |                        |
|----|------------------------|
| 02 | 20 pieces on tape      |
| 07 | 7" reel, 2500 pcs/reel |

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

|  | AlGaAs Red<br>-3111  | Orange<br>-3201 | Green<br>-3311 | Yellow<br>-3401 |
|--|----------------------|-----------------|----------------|-----------------|
| Power Dissipation (mW)                         | 60                   | 75              | 75             | 75              |
| Forward Current (mA)                           | 30                   | 30              | 30             | 30              |
| Derating (mA/°C)                               | .42                  | .42             | .42            | .42             |
| Peak Current (mA)<br><i>Pulse width = 1 μs</i> | 70                   | 70              | 70             | 70              |
| Operating Temperature (°C)                     | -30/+85              | -30/+85         | -30/+85        | -30/+85         |
| Storage Temperature (°C)                       | -30/+90              | -40/+100        | -30/+90        | -30/+90         |
| Soldering Profile                              | 240°C peak 5 seconds |                 |                |                 |

Solder Adherence per MIL-STD-202E, Method 208C

### OPERATING CHARACTERISTICS (T<sub>A</sub>=25°C)

|  |         | AlGaAs Red<br>-3111 | Orange<br>-3201 | Green<br>-3311 | Yellow<br>-3401 |
|--|---------|---------------------|-----------------|----------------|-----------------|
| Luminous Intensity (mcd)<br>I <sub>F</sub> =20mA | Min.    | 6                   | 5               | 3              | 3               |
|  | Typical | 17                  | 9               | 7.5            | 6               |
| Peak Wavelength (nm)<br>λ <sub>Peak</sub>        | Typical | 660                 | 605             | 560            | 580             |
| Viewing Angle (2θ ½)                             | Typical | 70°                 | 70°             | 70°            | 70°             |
| Forward Voltage (V)<br>I <sub>F</sub> =20mA      | Typical | 1.7                 | 2.2             | 2.1            | 2.2             |
|  | Max.    | 2                   | 2.5             | 2.5            | 2.5             |
| Reverse Voltage (V), I <sub>R</sub> =100μA       | Min.    | 4                   | 4               | 4              | 4               |

θ ½ is the off axis angle at which the luminous intensity is half the axial luminous intensity