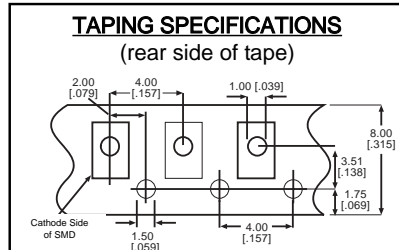
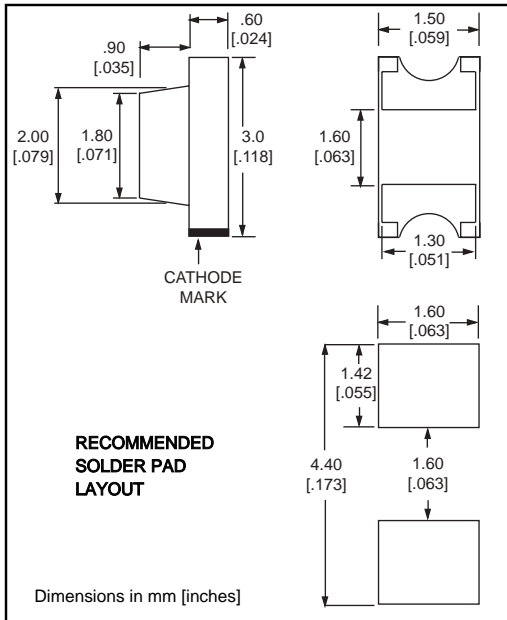


**microLED<sup>®</sup>**

**Surface Mount LED  
1206 Type Package**

**Dialight**

**597-3xx1-4xx**



| PART NO.*    | COLOR      |
|--------------|------------|
| 597-3111-4xx | AlGaAs Red |
| 597-3201-4xx | Orange     |
| 597-3311-4xx | Green      |
| 597-3401-4xx | Yellow     |

**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

**\*ORDERING INFORMATION**

**597-3xx1-4xx**

packaging option

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

| <b>ABSOLUTE MAXIMUM RATINGS</b> (T <sub>A</sub> =25°C) | AlGaAs Red           | Orange       | Green        | Yellow       |
|--|----------------------|--------------|--------------|--------------|
|  | <b>-3111</b>         | <b>-3201</b> | <b>-3311</b> | <b>-3401</b> |
| Power Dissipation (mW)                                 | 60                   | 75           | 75           | 75           |
| Forward Current (mA)                                   | 30                   | 30           | 30           | 30           |
| Derating (mA/°C)                                       | .42                  | .42          | .42          | .42          |
| Peak Current (mA)                                      | 70                   | 70           | 70           | 70           |
| <i>Pulse width = 1 μs</i>                              |                      |              |              |              |
| 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

| <b>OPERATING CHARACTERISTICS</b> (T <sub>A</sub> =25°C) |         | AlGaAs Red   | Orange       | Green        | Yellow       |
|---|---------|--------------|--------------|--------------|--------------|
|   |         | <b>-3111</b> | <b>-3201</b> | <b>-3311</b> | <b>-3401</b> |
| Luminous Intensity (mcd)                                | Min.    | 6            | 5            | 3            | 3            |
|   | Typical | 17           | 9            | 7.5          | 6            |
| Peak Wavelength (nm)                                    | Typical | 660          | 605          | 560          | 580          |
| <i>λ<sub>Peak</sub></i>                                 |         |              |              |              |              |
| Viewing Angle (2θ ½)                                    | Typical | 70°          | 70°          | 70°          | 70°          |
| Forward Voltage (V)                                     | 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