

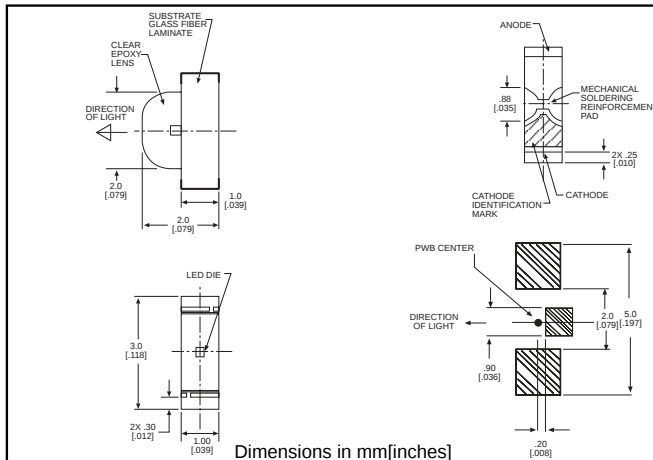
**microLED<sup>®</sup>**

# Surface Mount LED Right Angle Type Package

**Dialight**

**597-2xx1-4xx**

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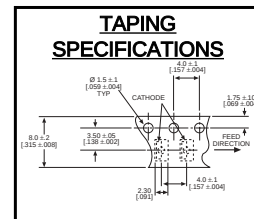


## PART NO.\*

597-2002-4xx  
597-2111-4xx  
597-2201-4xx  
597-2212-4xx  
597-2222-4xx  
597-2311-4xx  
597-2401-4xx

## COLOR

Red  
Red  
Orange  
Orange  
Green  
Green  
Yellow



## \*ORDERING INFORMATION

**597-2xx1-4xx**

packaging option

|    |                        |
|----|------------------------|
| 02 | 20 pieces on tape      |
| 07 | 7" reel, 3000 pcs/reel |

## 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

| <b>ABSOLUTE MAXIMUM RATINGS</b> ( $T_A=25^{\circ}\text{C}$ ) | Red<br>-2202         | Red<br>-2111 | Orange<br>-2201 | Orange<br>-2212 | Amber<br>-2222 | Green<br>-2311 | Yellow<br>-2401 |
|--------------------------------------------------------------|----------------------|--------------|-----------------|-----------------|----------------|----------------|-----------------|
| Power Dissipation (mW)                                       | 81                   | 57.5         | 70              | 81              | 81             | 70             | 70              |
| Forward Current (mA)                                         | 25                   | 25           | 25              | 25              | 25             | 25             | 25              |
| Derating (mA/C°) Above 25°C                                  | .43                  | .36          | .36             | .43             | .43            | .36            | .36             |
| Peak Current (mA)                                            | 30                   | 60           | 60              | 30              | 30             | 60             | 60              |
| Pulse width = 100 $\mu\text{s}$                              | 100*                 |              |                 | 100             | 100            |                |                 |
| Operating Temperature (°C)                                   | -40/+85              | -30/+85      | -30/+85         | -40/+85         | -40/+85        | -30/+85        | -30/+85         |
| Storage Temperature (°C)                                     | -40/+100             | -40/+100     | -40/+100        | -40/+100        | -40/+100       | -40/+100       | -40/+100        |
| Soldering Temperature                                        | 260°C, 5 seconds max |              |                 |                 |                |                |                 |

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

| <b>OPERATING CHARACTERISTICS</b> ( $T_A=25^{\circ}\text{C}$ ) |         | Red<br>-2202 | Red<br>-2111 | Orange<br>-2201 | Orange<br>-2212 | Amber<br>-2222 | Green<br>-2311 | Yellow<br>-2401 |
|---------------------------------------------------------------|---------|--------------|--------------|-----------------|-----------------|----------------|----------------|-----------------|
| Luminous Intensity (mcd)                                      | Min.    | 16           | 6.2          | 1.5             | 16              | 16             | 2.6            | 1.5             |
|                                                               | Typical | 50           | 12.4         | 3               | 65              | 65             | 5.2            | 3               |
| Peak Wavelength (nm)                                          | Typical | 630          | 660          | 605             | 609             | 592            | 560            | 580             |
| $\lambda_{\text{Peak}}$                                       |         |              |              |                 |                 |                |                |                 |
| Viewing Angle ( $2\theta_{1/2}$ )                             | Typical | 130°         | 130°         | 130°            | 130°            | 130°           | 130°           | 130°            |
| Forward Voltage (V)                                           | Typical | 1.9          | 1.7          | 2.2             | 1.9             | 1.9            | 2.1            | 2.2             |
|                                                               | Max.    | 2.4          | 2.3          | 2.8             | 2.4             | 2.4            | 2.8            | 2.8             |
| Reverse Current ( $\mu\text{A}$ )                             | Max     | 100*         | 100          | 100             | 100             | 100*           | 100            | 100             |
| ( $V_R = 4\text{V}$ ) * ( $V_R = 5\text{V}$ )                 |         |              |              |                 |                 |                |                |                 |

$\theta_{1/2}$  is the off axis angle at which the luminous intensity is half the axial luminous intensity