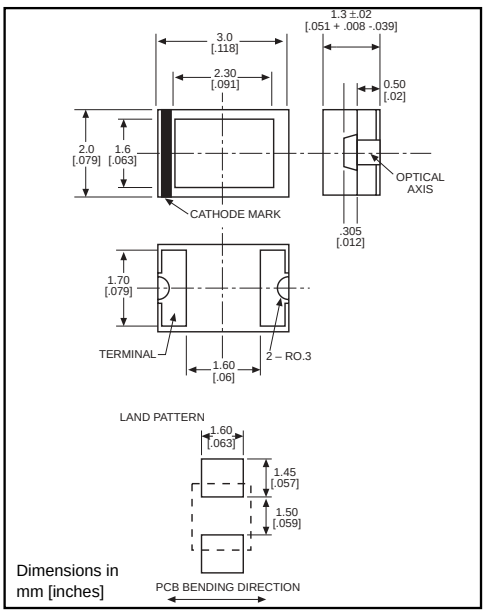
microLED®

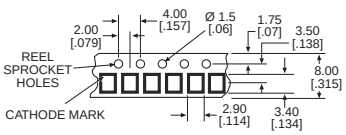
Dialight

# Surface Mount LED

# 597-3xx1-5xx




**TAPING SPECIFICATIONS**




TAPE & REEL FIGURE

| PART NO.* | COLOR |
|---|---|
| 597-3021-5xx | Red |
| 597-3111-5xx | AlGaAs Red |
| 597-3211-5xx | Orange |
| 597-3301-5xx | Green |
| 597-3401-5xx | Yellow |

NEW

## 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**

597-3xx1-5xx

packaging option

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

| **ABSOLUTE MAXIMUM RATINGS** ($T_A$=25°C) | Red -3021 | AlGaAs Red -3111 | Orange -3211 | Green -3301 | Yellow -3401 |
|---|---|---|---|---|---|
| Power Dissipation (mW) | 70 | 75 | 70 | 70 | 70 |
| Forward Current (mA) | 25 | 30 | 25 | 25 | 25 |
| Derating (mA/°C) *Above 25°C* | .42 | .42 | .42 | .42 | .42 |
| Peak Current (mA) *Pulse width = 1 ms* | 60 | 75 | 60 | 60 | 60 |
| Operating Temperature (°C) | -30/+85 | -30/+85 | -30/+85 | -30/+85 | -30/+85 |
| Storage Temperature (°C) | -40/+85 | -40/+85 | -40/+85 | -40/+85 | -40/+85 |
| Soldering Profile | 240°C peak, max 10 seconds | | | | |

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

| **OPERATING CHARACTERISTICS** ($T_A$=25°C) | | Red -3021 | AlGaAs Red -3111 | Orange -3211 | Green -3301 | Yellow -3401 |
|---|---|---|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 2.2 | 5.6 | 3.6 | 5.6 | 2.2 |
| $I_F$=20mA | Typical | 6.3 | 16 | 10 | 16 | 6.3 |
| Peak Wavelength (nm) λ Peak | Typical | 650 | 660 | 610 | 563 | 585 |
| Viewing Angle (2Θ ½) | Typical | 104° | 104° | 104° | 104° | 104° |
| Forward Voltage (V) | Typical | 2 | 1.75 | 2 | 2.2 | 2.1 |
| $I_F$=20mA | Max. | 2.8 | 2.5 | 2.8 | 2.8 | 2.8 |
| Reverse Current (μA) ($V_R$ = 4V) | Max | 100 | 100 | 100 | 100 | 100 |

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